PROFESSIONAL SERVICES AGREEMENT
FOR
JD EDWARDS WORLD TO ENTERPRISEONE
HR/PAYROLL UPGRADE PROJECT

ORIGINAL

BETWEEN

COOK COUNTY GOVERNMENT

AND

DONOVO VENTURES, LLC

APPROVED BY BOARD OF
COOK COUNTY COMMISSIONERS

APR 17 2013

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PROFESSIONAL SERVICES AGREEMENT

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Exhibit 3, Denovo Proposal
Exhibit 4, Schedule of Compensation
Exhibit 5 Evidence of Insurance
Exhibit 6 Board Authorization

AGREEMENT

This Agreement is made and entered into by and between the County of Cook, a public body corporate of the State of Illinois, on behalf of Office of the Chief Procurement Officer hereinafter referred to as "County" or "Cook County" and Denovo Ventures, hereinafter referred to as "Consultant" or "Denovo", pursuant to authorization by the Cook County Board of Commissioners on the 17th day of April, 2013, as evidenced by Board Authorization letter attached hereto as EXHIBIT "6".

BACKGROUND

The Consultant was selected based on the qualifications submitted and evaluated by the County representatives. Consultant represents that it has the professional experience and expertise to provide the necessary services and further warrants that it is ready, willing and able to perform in accordance with the terms and conditions as set forth in this Agreement.

NOW, THEREFORE, the County and Consultant agree as follows:

TERMS AND CONDITIONS

ARTICLE 1) INCORPORATION OF BACKGROUND

The Background information set forth above is incorporated by reference as if fully set forth here.

ARTICLE 2) DEFINITIONS

a) Definitions

Capitalized terms used in the Agreement are defined in the context in which they are used and shall have the meanings therein indicated. The following words and phrases have the following meanings for purposes of this Agreement:

"**Additional Services**" means those services which are within the general scope of Services of this Agreement, but beyond the description of services required under Article 3, Group Exhibit 1, and any additional schedules attached to such Exhibit, and all services reasonably necessary to complete the Additional Services to the standards of performance required by this Agreement.

Any Additional Services requested by the Department require the approval of the Chief Procurement Officer in a written modification to this Agreement before Consultant is obligated to perform those Additional Services and before the County becomes obligated to pay for those Additional Services.

"**Agreement**" means this Professional Services Agreement, including all Exhibits attached to it and incorporated in it by reference, and all amendments, modifications or revisions made in accordance with its terms.

"**Chief Procurement Officer**" means the Chief Procurement Officer for the County of Cook and any representative duly authorized in writing to act on his behalf.

"**Department**" means the Cook County Using Department.

"**Services**" means, collectively, the services, duties and responsibilities described in Article 3 of this Agreement, Group Exhibit 1, and any additional schedules attached to such Exhibit, and any and all work necessary to complete them or carry them out fully and to the standard of performance required in this Agreement.

"**Subcontractor**" means any person or entity with whom Consultant contracts to provide any part of the Services, including subcontractors and subconsultants of any tier, suppliers and materials providers, whether or not in privity with Consultant.

b) Interpretation

i) The term "**include**" (in all its forms) means "include, without limitation" unless the context clearly states otherwise.

ii) All references in this Agreement to Articles, Sections or Exhibits, unless otherwise expressed or indicated are to the Articles, Sections or Exhibits of this Agreement.

iii) Words importing persons include firms, associations, partnerships, trusts, corporations and other legal entities, including public bodies, as well as natural persons.

iv) Any headings preceding the text of the Articles and Sections of this Agreement, and any table of contents or marginal notes appended to it, are solely for convenience or reference and do not constitute a part of this Agreement, nor do they affect the meaning, construction or effect of this Agreement.

v) Words importing the singular include the plural and vice versa. Words of the masculine gender include the correlative words of the feminine and neuter genders.

vi) All references to a number of days mean calendar days, unless expressly indicated otherwise.

(vi) Unless otherwise stated, this Contract shall be interpreted and construed based upon the following order of precedence of component parts. Such order of precedence shall govern to resolve all cases of conflict, ambiguity or inconsistency.

1. Articles 1 through 12 of the Agreement
2. Group Exhibit 1: Statement of Work, Managed Services; Statement of Work , JD Edwards Migration/Upgrade Professional Services,
3. Exhibit 2 Order Document
4. Exhibit 3 Denovo Proposal
5. Exhibit 4 Schedule of Compensation
6. Exhibit 5 Evidence of Insurance
7. Exhibit 6 Board Authorization

(vii) Regarding Oracle Licenses (as defined below), to the extent that there are any inconsistencies between the terms and conditions herein and the terms and conditions in the Order Document (as defined below), the terms and conditions in the Order Document shall govern and control.

c) Incorporation of Exhibits

The following attached Exhibits are made a part of this Agreement:

1. Group Exhibit 1 Statement of Work, Managed Services, Statement of Work JD Edwards Migration/Upgrade Professional Services,
2. Exhibit 2 Order Document
3. Exhibit 3 Denovo Proposal
4. Exhibit 4 Schedule of Compensation
5. Exhibit 5 Evidence of Insurance
6. Exhibit 6 Board Authorization

ARTICLE 3) DUTIES AND RESPONSIBILITIES OF CONSULTANT

a) Scope of Services

(i.) This description of Services is intended to be general in nature and is neither a complete description of Consultant's Services nor a limitation on the Services that Consultant is to provide under this Agreement.

(ii.) Consultant must provide the Services in accordance with the standards of performance set forth in Article 3c. The Services that Consultant must provide include, but are not limited to, those described in Group Exhibit 1, Scope of Services and Time Limits for Performance, which is attached to this Agreement and incorporated by reference as if fully set forth here.

(b) Oracle Licenses

The Consultant shall also provide Services, which are software as a service products (the "SaaS Products") that are set forth in that certain Statement of Work attached hereto as Exhibit 1, Schedule A (""). The parties acknowledge and agree that the Consultant shall also provide certain Oracle Licenses, and that the terms and conditions of the Oracle Licenses shall be set forth in a separate agreement attached hereto as Exhibit 2, (the **"Order Document"**). The Parties further acknowledge and agree that the terms and conditions of the Order Document are hereby expressly incorporated by reference. In addition to the terms and conditions in the Order Document, Oracle Licenses shall not be modified, customized or tampered with in any respect by any person or entity without the consent of Consultant. If the County wishes to modify or customize the Oracle Licenses Products, the County must obtain Consultant's prior written consent, which shall not be unreasonably withheld.

(c) Disaster Recovery

Consultant shall implement and maintain a disaster recovery plan (the "***DR Plan***") that is subject to County's reasonable approval, materially in accordance with industry standards, and that provides for the continued delivery of the Services in the event of a power outage, systems outage, or other circumstances that may interrupt the normal provision of the Services. The Parties acknowledge and agree that, upon County's consent, which it shall not unreasonably withhold, the DR Plan may change over time but will remain materially consistent with the DR Plan details as set out herein. The Parties further acknowledge and agree that, to the extent within the County's control , business continuity is the sole responsibility of the County.

(d) Protection and Security

Consultant shall maintain a security program that is subject to County's reasonable approval and is materially in compliance with all applicable laws, with industry standards, and that shall reasonably ensure the security and integrity of the County's confidential information (including third party data that the County may collect, process or retain) and protect against threats or hazards to the security of such data during the Term of the Agreement. Upon the effective date of this Agreement, annually thereafter, and upon reasonable written request by the County, and at Consultant's expense and with no cost to the County, Consultant shall provide sufficient evidence of such security program's aforementioned compliance.

To the extent that the Consultant relies upon, outsources to, or uses the services of third parties in the performance of Consultant's security program, Consultant shall ensure and assume all responsibility, and accompanying liability, for such third parties as related to Consultant's aforementioned security program.

(e) Protection and Privacy

Consultant shall maintain a privacy program that is subject to County's reasonable approval and is materially in compliance with all applicable laws, in accordance with industry standards, and that shall reasonably ensure the privacy and integrity of the Services and the County's confidential information (including third party data that the County may collect, process or

retain) and protect against threats or hazards to the privacy of such data during the Term of the Agreement. Upon the effective date of this Agreement, annually thereafter, and upon reasonable written request by the County, and at Consultant's expense and with no cost to the County, Consultant shall provide sufficient evidence of such privacy program's aforementioned compliance.

To the extent that the Consultant relies upon, outsources to, or uses the services of third parties in the performance of Consultant's privacy program, Consultant shall ensure and assume all responsibility, and accompanying liability, for such third parties as related to Consultant's aforementioned privacy program

(f) Incident Response

Consultant shall create and implement an incident response plan ("Incident Response Plan") addressing a third party's unauthorized access to the Services and Deliverables, including Documents and data, under this Agreement ("Data Breach"). The Incident Response Plan shall, at a minimum: (a) meet all legal requirements and industry-standard best practices; (b) require that Consultant immediately notify the County where it has reason to know of or receives notice that a Data Breach may have occurred; (c) require annual testing and preparedness exercises; and (d) specify that Consultant assumes all liability and responsibility for investigating, responding to, and mitigating Data Breaches, but shall coordinate such response and mitigation with the County. The Incident Response Plan shall be subject to the County's reasonable approval. Consultant shall provide a copy of the Incident Response Plan to the County upon execution of the Agreement.

(g) Deliverables

In carrying out its Services, Consultant must prepare or provide to the County various Deliverables. "**Deliverables**" include work product, all Services including those required in Group Exhibit 1, such as written reviews, recommendations, reports and analyses, concepts, ideas, methods, methodologies, procedures, processes, know-how and techniques, templates, the generalized features of the structure, sequence and organization of software, user interfaces and screen designs, general purpose consulting and software tools, utilities and routines, and logic, coherence and methods of operation of systems produced by Consultant solely for the County as described Group Exhibit 1.

The County may reasonably reject Deliverables that do not include relevant information or data, or do not include all documents or other materials specified in this Agreement. If the County determines that Consultant has failed to comply with the foregoing standard, it has sixty (60) days from the discovery to notify Consultant of its failure. If Consultant does not correct the failure, if it is possible to do so, within 30 days after receipt of notice from the County specifying the failure, then the County, by written notice, may treat the failure as a default of this Agreement under Article 9.

Partial or incomplete Deliverables may be accepted for review only when required for a specific and well-defined purpose and when consented to in advance by the County. Such Deliverables will not be considered as satisfying the requirements of this Agreement and partial or incomplete Deliverables in no way relieve Consultant of its commitments under this Agreement.

Consultant shall retrieve, retain, deliver and destroy the Deliverables, including Documents and data, in compliance with laws pertaining to the County, including but not limited to the Local Records Act as applicable or other applicable laws; provided, however, the County shall notify Consultant of all such applicable laws. Upon termination of the Agreement, whether upon expiration, upon breach, or otherwise, and at no cost to the County, Consultant shall retrieve, retain, deliver, or destroy the Deliverables as the County directs. Consultant shall ensure that, throughout the term of the Agreement and upon termination of the Agreement, the Deliverables are available to the County in industry-standards formats, such as CSV, JPG/GIF/PNG, or RTF where applicable. Upon termination of the Agreement, Consultant shall provide reasonable assistance to the County in the return of the Deliverables.

h) Standard of Performance

Consultant must perform all Services required of it under this Agreement with that degree of skill, care and diligence normally shown by a consultant performing services of a scope and purpose and magnitude comparable with the nature of the Services to be provided under this Agreement. Consultant acknowledges that it is entrusted with or has access to valuable and confidential information and records of the County and with respect to that information, Consultant agrees to be held to the standard of care of a fiduciary. Notwithstanding the foregoing, such standard of care shall not be deemed to negate any applicable limitations on liability set forth in the Agreement.

Consultant must assure that all Services that require the exercise of professional skills or judgment are accomplished by professionals qualified and competent in the applicable discipline and appropriately licensed, if required by law. Consultant must provide copies of any such licenses. Consultant remains responsible for the professional and technical accuracy of all Services or Deliverables furnished, whether by Consultant or its Subcontractors or others on its behalf. All Deliverables must be prepared in a form and content satisfactory to the Department and delivered in a timely manner consistent with the requirements of this Agreement.

The Service Level Agreements describe the various service level standards related to the Services (including availability, exclusions, trouble tickets, and credit limitations) to which Consultant will perform ("**Service Level Agreement**" or "**SLA**"). Consultant shall apply diligent efforts to provide the Services in accordance with the Service Levels as specified in each Statement of Work. For a period of ninety (90) days before the go live date and ninety (90) days after the go live date (the "**Stabilization Period**"), Consultant shall measure the performance of the Services and calibrate and/or adjust the Service Levels pertaining to the hosted environment accordingly, subject to County approval which it shall not reasonably withhold, condition or delay. Consultant agrees to provide the same or better performance than the County's current

production environment as has been disclosed to Consultant in writing prior to the date hereof. If adjustments are needed as discovery of unknown services occur through the Stabilization Period the County agrees to any such adjustments and shall waive Consultant's strict adherence to the Service Levels during the Stabilization Period. Following the end of the Stabilization Period, Consultant shall meet or exceed the Service Levels in connection with the provision of the Services (the "**Post-Stabilization Period**"). In the event that Consultant fails to meet or exceed the Service Levels in the Post-Stabilization Period, the County shall be entitled to credited/liquidated damages as set forth in the applicable Statement of Work. Any such credits/liquidated damages shall reasonably approximate actual damages and shall not be construed as a penalty.

If Consultant fails to comply with the foregoing standards, Consultant must perform again, at its own expense, all Services required to be re-performed as a direct or indirect result of that failure. Any review, approval, acceptance or payment for any of the Services by the County does not relieve Consultant of its responsibility for the professional skill and care and technical accuracy of its Services and Deliverables. This provision in no way limits the County's rights against Consultant either under this Agreement, at law or in equity.

i) Personnel

i) Adequate Staffing

Consultant must, upon receiving a fully executed copy of this Agreement, assign and maintain during the term of this Agreement and any extension of it an adequate staff of competent personnel that is fully equipped, licensed as appropriate, available as needed, qualified and assigned exclusively to perform the Services. Consultant must include among its staff the Key Personnel and positions as identified below. Consultant shall appoint one individual (the "**Denovo Account Representative**") to coordinate the performance of Consultant's obligations under, and to act as Consultant's representative regarding, the Agreement. The Denovo Account Representative will (i) serve as the single point of accountability for the Services and (ii) have the authority on behalf of Consultant to decide all questions of a day-to-day nature that may arise under the Agreement. Consultant may not replace the person serving as the Denovo Account Representative, without the written consent of the County, which consent shall not be unreasonably withheld, delayed or conditioned. The level of staffing may be revised from time to time by notice in writing from Consultant to the County and with written consent of the County, which consent the County will not withhold unreasonably. If the County fails to object to the revision within 14 days after receiving the notice, then the revision will be considered accepted by the County.

ii) Key Personnel

Consultant must not reassign or replace Key Personnel without the written consent of the County, which consent the County will not unreasonably withhold. "**Key Personnel**" means those job titles and the persons assigned to those positions in accordance with the provisions of

this Article 3d(ii). The County shall have the opportunity to review, interview and reasonably approve all Key Personnel. The Department may at any time in writing notify Consultant that the County will no longer accept performance of Services under this Agreement by one or more Key Personnel listed. Upon that notice Consultant must immediately suspend the services of the key person or persons and must replace him or them in accordance with the terms of this Agreement. A list of Key Personnel is found in Exhibit 1, Scope of Services.

iii) **Salaries and Wages**

Consultant and Subcontractors must pay all salaries and wages due all employees performing Services under this Agreement unconditionally and at least once a month without deduction or rebate on any account, except only for those payroll deductions that are mandatory by law or are permitted under applicable law and regulations. If in the performance of this Agreement Consultant underpays any such salaries or wages, the Comptroller for the County may withhold, out of payments due to Consultant, an amount sufficient to pay to employees underpaid the difference between the salaries or wages required to be paid under this Agreement and the salaries or wages actually paid these employees for the total number of hours worked. The amounts withheld may be disbursed by the Comptroller for and on account of Consultant to the respective employees to whom they are due. The parties acknowledge that this Article 3.d(iii) is solely for the benefit of the County and that it does not grant any third party beneficiary rights.

j) Minority and Women's Business Enterprises Commitment

In the performance of this Agreement, including the procurement and lease of materials or equipment, Consultant must abide by the minority and women's business enterprise commitment requirements of the Cook County Ordinance, (Article IV, Section 34-267 through 272) except to the extent waived by the Compliance Director. Consultant's completed MBE/WBE Utilization Plan evidencing its compliance with this requirement are a part of this Agreement, in Section 1 of the Economic Disclosure Statement, upon acceptance by the Compliance Director. Consultant must utilize minority and women's business enterprises at the greater of the amounts committed to by the Consultant for this Agreement in accordance with Section 1 of the Economic Disclosure Statement.

k) Insurance

Prior to the effective date of this Contract, the Consultant, at its cost, shall secure and maintain at all times, unless specified otherwise, until completion of the term of this Agreement the insurance specified below.

Nothing contained in these insurance requirements is to be construed as limiting the extent of the Consultant's responsibility for payment of damages resulting from its operations under this Agreement. The Commercial General Liability insurance shall be on a primary and non-contributory basis and shall not be excess to any insurance or self-insurance programs maintained by the County.

The Consultant's Commercial General Liability insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Consultant shall require all Subcontractors to provide the insurance required in this Agreement, or Consultant may provide the coverages for Subcontractors. All Subcontractors are subject to the same insurance requirements as Consultant unless specified otherwise.

The Cook County Department of Risk Management maintains the right to reasonably modify, delete, alter or change these requirements; provided, however, County shall provide Consultant with at least ninety (90) days' prior written notice of any such changes.

Coverages

(a) **Workers Compensation Insurance**

Workers' Compensation shall be in accordance with the laws of the State of Illinois or any other applicable jurisdiction.

The Workers Compensation policy shall also include the following provisions:

(1) Employers' Liability coverage with a limit of
$1,000,000 each Accident
$1,000,000 each Employee
$1,000,000 Policy Limit for Disease

The Employers Liability Limits may be combined with either and Excess or Umbrella Liability Policy.

(2) Broad form all states coverage

(b) **Commercial General Liability Insurance**

The Commercial General Liability shall be on an occurrence form basis to cover bodily injury and property damage including loss of use.

General Liability limits shall not be less than $1,000,000 per occurrence and $2,000,000 aggregate combined single limit for bodily injury and property damage with defense outside the limits. The General Liability policy shall include, without limitation the following coverages:

(a) All premises and operations;
(b) Contractual Liability;

(c) Products/Completed Operations;
(d) Employees included as additional insured;
(e) Broad Form Property Damage Liability;
(f) Cross Liability
(g) Independent Contractors

(c) **Commercial Automobile Liability Insurance**

When any motor vehicles are used in connection with the Services to be performed, Consultant shall secure Commercial Automobile Liability Insurance to cover all owned, leased, non-owned and hired automobiles, trucks and trailers. The Commercial Automobile Liability Insurance limits shall not be less than the following:

(a) Liability - All Autos: Bodily Injury & Property Damage - $1,000,000 per Occurrence

(b) Uninsured/Underinsured Motorists: Per Illinois Requirements

(d) **Professional Liability (Primary & Excess)**

Consultant shall secure Professional Liability insurance covering any and all claims arising out of the performance or nonperformance of professional services for the County under this Agreement.

This professional liability insurance shall remain in force for the life of the Consultant's obligations under this Agreement, and shall have a limit of liability of not less than $5,000,000 in the aggregate. Aggregate limits must be unimpaired with a deductible of not more than $100,000. A claims-made policy which is not renewed or replaced must have an extended reporting period of 2 years.

Subcontractors performing services for the Consultant must maintain limits of not less than $2,000,000 with the same terms in this section.

(a) Any retroactive date or prior acts exclusion must predate both the date of this agreement and any earlier commencement of any services.
(b) Coverage must be maintained for a minimum of two (2) years after final completion of the services or work provided by the Vendor.

(e) **Cyber and Privacy & Securities Liability (Primary and Excess)**

Coverage for, but not limited to, Privacy and Security coverage which shall include loss arising from Service Interruption, Confidentiality Breaches and

Privacy Invasion, Software Failure, Information Assets Coverage and Business Income/Extra Expense coverage with minimum policy limits of $1,000,000 in the aggregate.

(a) Any retroactive date or prior acts exclusion must be predated both the date of this agreement and any earlier commencement of any services.
(b) Coverage must be maintained for a minimum of two (2) years after final completion of the services or work provided by the vendor.

(f) **Umbrella/Excess Liability**

Consultant shall secure coverage in excess of general liability, automobile liability, employers liability in the amount of a least $5,000,000 per occurrence with defense outside the limit.

Conditions Apply to All Coverage

(a) All policies required should apply with a worldwide coverage territory to cover the sale of products worldwide and suits brought worldwide.
(b) Any deductibles or self-insured retentions must be declared to and approved by Cook County Risk Management Department.
(c) Any changes to the coverages required must be authorized in advance by Cook County's Risk Management Department.

Additional requirements

(a) **Additional Insured**

Cook County, its officials, employees and agents shall be listed as additional insureds under the Commercial General Liability insurance, Commercial Automobile Liability, Cyber and Privacy & Securities Liability Insurance.

(b) **Qualification of Insurers**

All insurance companies providing coverage shall be licensed or approved by the Department of Insurance, State of Illinois, and shall have a financial rating no lower than (A-) VII as listed in A.M. Best's Key Rating Guide, current edition or interim report. Companies with ratings lower than (A-) VII will be acceptable only upon written consent of the Cook County Department of Risk Management.

(c) **Insurance Notices**

All policies of insurance required under terms of this Agreement shall be

endorsed to provide that the insurance company shall notify the Office of the Chief Procurement Officer at least 60 days prior to the effective date of any cancellation or modification of such policies. Prior to the date on which Consultant commences performance of its part of the work, Consultant shall furnish to the County certificates of insurance maintained by Consultant. The receipt of any certificate of insurance does not constitute agreement by the County that the insurance requirements have been fully met or that the insurance policies indicated on the certificate of insurance are in compliance with insurance required above. The word "endeavor to.... but failure to do shall impose no obligation or liability of any kind upon the insurer, its agents or representatives" should be stricken from the Accord certificate form.

In no event shall any failure of the County to receive certificates of insurance required hereof or to demand receipt of such Certificates of Insurance be construed as a waiver of Consultant's obligations to obtain insurance pursuant to these insurance requirements.

Subrogation and Waiver

The Consultant shall require all policies of insurance that are in any way related to the work to include clauses providing that each underwriter shall waive all of its rights of recovery, under subrogation or otherwise, against Cook County, Board of Commissioners and employees of the County.

The Consultant shall waive all rights of recovery against Cook County, Board of Commissioners and employees of the County which Consultant may have or acquired because of deductible clauses in or inadequacy of limits of any policies of insurance that are in any way related to the work.

l) Indemnification

The Consultant covenants and agrees to defend, indemnify and hold harmless the County and its commissioners, officials, employees, agents and representatives, and their respective heirs, successors and assigns, from and against any and all costs, expenses, attorney's fees, losses, regulatory fines, damages and liabilities incurred or suffered directly or indirectly from or attributable to claims by first and third parties relating to bodily injury or death of any person or damage to real and/or tangible personal property, data loss, data theft, data corruption or lack of integrity, lack of data portability, data breach, breach of confidentiality, breach of data privacy laws, or breach of data security or data protection laws caused directly or indirectly by the gross negligence or willful misconduct of the Consultant, its personnel or agents in connection with performance of the Services. To receive any indemnities specified in the Agreement, the County must promptly notify the Consultant in writing of a claim or suit. With respect to third party claims, the County must also provide reasonable cooperation (at the Consultant's expense), full authority to defend or settle the claim or suit; and the Consultant shall have no obligation to

indemnify the County under any third party settlement made without the Consultant's written consent.

m) Confidentiality and Ownership of Documents

Consultant acknowledges and agrees that information regarding this Contract is confidential and shall not be disclosed, directly, indirectly or by implication, or be used by Consultant in any way, whether during the term of this Contract or at any time thereafter, except solely as required in the course of Consultant's performance hereunder. Consultant shall comply with the applicable data security, data privacy and data breach laws and regulations affecting County and will not disclose any of County's records, materials, or other data to any third party without County's written consent. If the Consultant discloses or uses any of the County's confidential information the County shall have the right, in addition to any other remedies available, to seek injunctive relief to enjoin such acts, as the parties acknowledge that any other available remedies may be inadequate provided that the County has initiated the procedure set forth in the Disputes provision as set forth in Article 6. Consultant shall not have the right to compile and distribute statistical analyses and reports utilizing data derived from information or data obtained from County without the prior written approval of County. In the event such approval is given, any such reports published and distributed by Consultant shall be furnished to County without charge.

The Consultant has created, acquired or otherwise has rights in, and may, in connection with the performance of services hereunder, employ, provide, modify, create, or acquire or otherwise obtain rights in various concepts, ideas, methods, methodologies, procedures, processes, know-how and techniques, templates, the generalized features of the structure, sequence and organization of software, user interfaces and screen designs, general purpose consulting and software tools, utilities and routines, and logic, coherence and methods of operation of systems (collectively, the "**Consultant's Background Materials**"). To the extent that the Consultant's Background Materials pre-existed the Agreement or were developed independently of the Agreement (i.e., through an agreement between the Consultant and an unrelated third party) and the Consultant uses those pre-existing or independently developed Consultant's Background Materials or any of its other pre-existing or independently developed intellectual property or property (collectively, "**Consultant's Intellectual Property**") in connection with the performance under the Agreement, the Consultant shall retain all right, title and interest in and to Consultant's Intellectual Property. Except for any license expressly granted to the County, neither the County nor any third Party shall acquire right, title or interest in or to Consultant's Intellectual Property unless specifically agreed to otherwise by mutual written agreement; provided that Consultant shall grant the County license to use Consultant's Background Materials and Consultant's Intellectual Property and Trade Secrets, as defined below, to reasonably enable portability of the Deliverables and portability of the County's data and to reasonably enable the County to transition from services, that Consultant provides under this Agreement to a substitute service, regardless of whether Consultant provides such substitute service. The parties agree that the County's license shall permit the County to develop solicitation documents, including request for proposals or qualifications, for such transition of

services. In addition to the Consultant's Intellectual Property, Consultant employs trade secrets including, without limitation, various computer systems and programs, techniques, developments, improvements, inventions, and processes that are, or may be, produced in the course of Consultant's operations, any other information not generally known concerning Consultant or its operations, products, suppliers, markets, sales, costs, profits, client needs and lists, including the pricing information made available in the Agreement or other information acquired, disclosed, or made known to employees or agents while in the employ of Consultant, which, if used or disclosed, could adversely affect Consultant's business or give competitors an advantage ("***Trade Secrets***"). Such Trade Secrets contain privileged or confidential commercial or financial information that would result in a competitive disadvantage if disclosed without prior permission by Consultant.

To the extent that, in connection with the Agreement, the County comes into possession of any of Consultant's Intellectual Property or Trade Secrets, the County agrees to use Consultant's Intellectual Property and Trade Secrets solely for the purposes of the Agreement, and will not disclose such Confidential Information to any third party without Consultant's prior written consent. The County agrees to maintain Consultant's Intellectual Property and Trade Secrets in confidence using at least the same degree of care as it employs in maintaining in confidence its own proprietary and confidential information, but in no event less than a reasonable degree of care. If the County discloses or uses (or threatens to use or disclose) any of Consultant's Intellectual Property in breach of the confidentiality protections under the Agreement, Consultant shall have the right, in addition to any other remedies available, to seek injunctive relief to enjoin such acts, as the parties acknowledge that any other available remedies may be inadequate provided that the Consultant has initiated the procedure set forth in the Disputes provision as set forth in Article 6. Additionally, the County shall have the restricted right to disclose the entire contract dollar amount, however this disclosure may not include itemized pricing data or any Trade Secrets, as identified in writing by the Consultant. Notwithstanding the foregoing, Consultant acknowledges that such information may be required to be disclosed pursuant to the Illinois Freedom of Information Act, 5 ILCS §140/1 et seq.

All documents, data, studies, reports, work product or product created solely as a result of the performance of the Contract (the "**Documents**") shall be included in the Deliverables and shall be the property of the County of Cook. It shall be a breach of this Contract for the Consultant to reproduce or use any documents, data, studies, reports, work product or product obtained from the County of Cook or any Documents created hereby, whether such reproduction or use is for Consultant's own purposes or for those of any third party. During the performance of the Contract Consultant shall be responsible for any loss or damage to the Deliverables and Documents while they are in Consultant's possession, and any such loss or damage shall be restored at the expense of the Consultant. Except as otherwise provided in the Agreement, the County and its designees shall be afforded full access to the Deliverables and Documents and the work at all times.

All Deliverables and Documents that Consultant creates solely for the County under this Agreement are created as a work for hire. To the extent that Deliverables and Documents that

the Consultant creates solely for the County are not works for hire, the Consultant assigns to the County, for no additional consideration, all rights, including copyrights, in all Deliverables and Documents prepared by the Consultant solely for the County under this Agreement. Notwithstanding the foregoing, and subject to any applicable confidentiality restrictions set forth herein, nothing in the Agreement shall be deemed to limit Consultant's right to use any ideas, concepts, processes, techniques, expertise and know-how gained by Consultant as a result of the performance of the Services hereunder (collectively, "**New Ideas**") and County hereby grants Consultant a worldwide, non-exclusive, transferable, fully paid up, perpetual right and license to use the New Ideas without restriction. Additionally, the Consultant must obtain the County's prior written consent to use and reproduce any aggregated and statistical data derived from the operation of the Services, including, without limitation, the number of records in the Service, the number and types of transactions, configurations, and reports processed in the Service and the performance results for the Service (the "**Aggregated Data**") for the purpose of operating Consultant's business, and such consent shall not be unreasonably withheld by the County, provided that Consultant shall not reveal any Confidential Information of the County.

In addition to the Deliverables, Consultant's electronic archives, back-up copies, or duplicates of Deliverables are included in the Deliverables. Consultant has no property interest in, and may assert no lien on or right to withhold from the County, Deliverables under this Agreement.

n) Patents, Copyrights and Licenses

If applicable, Consultant shall furnish the Chief Procurement Officer with all licenses required for the County to utilize any software, including firmware or middleware, and also to use any software as a service, platform as a service or infrastructure as a service provided by Consultant directly, or indirectly through its subcontractors or third-party relationships, as part of the Deliverables. Such licenses shall be clearly marked with a reference to the number of this County Contract. Consultant shall also furnish a copy of such licenses to the Chief Procurement Officer. Unless otherwise stated in these Contract documents, such licenses shall be perpetual and shall not limit the number of persons who may utilize the software on behalf of the County.

Consultant agrees to hold harmless and indemnify the County, its officers, agents, employees and affiliates from and defend, at its own expense (including reasonable attorneys', accountants' and consultants' fees), any suit or proceeding brought against County based upon a claim that the ownership and/or use of equipment, hardware, software, and service, or any part thereof provided to the County or utilized in performing Consultant's services constitutes an infringement of any patent, copyright or license or any other property right.

In the event the use of any equipment, hardware, software, or service, or any part thereof is enjoined, Consultant with all reasonable speed and due diligence shall provide or otherwise secure for County, at the Consultant's election, one of the following: the right to continue use of the equipment, hardware, software, or service; an equivalent system having the Specifications as provided in this Contract; or Consultant shall modify the system or its component parts so that they become non-infringing while performing in a substantially similar manner to the original

system, meeting the requirements of this Contract.

o) Examination of Records and Audits

The Consultant agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after the final payment under the Contract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices, and records of the Consultant related to the Contract, or to Consultant's compliance with any term, condition or provision thereof. The Consultant shall be responsible for establishing and maintaining records sufficient to document the costs associated with performance under the terms of this Contract.

The Consultant further agrees that it shall include in all of its subcontracts hereunder a provision to the effect that the subcontractor agrees that the Cook County Auditor or any of its duly authorized representatives shall, until expiration of three (3) years after final payment under the subcontract, have access and the right to examine any books, documents, papers, canceled checks, bank statements, purveyor's and other invoices and records of such subcontractor involving transactions relating to the subcontract, or to such subcontractor's compliance with any term, condition or provision thereunder or under the Contract.

In the event the Consultant receives payment under the Contract, reimbursement for which is later disallowed by the County, the Consultant shall promptly refund the disallowed amount to the County on request, or at the County's option, the County may credit the amount disallowed from the next payment due or to become due to the Consultant under any contract with the County.

The County's audit, access, and examination rights under this Agreement shall also specifically include the following, not to the exclusion of any other rights the County may hold: At all times, the County has the right to access, examine and verify Consultant's data security and data privacy programs provided that such examinations shall not unreasonably interfere with Consultant's ability to conduct its business in the ordinary course; County may do so directly or through a third party of County's choosing; Upon written request by the County, Consultant shall provide to County reasonably detailed, complete and accurate documentation describing the systems, processes, network segments, security controls, and dataflow relating to Consultant's data security program, data privacy program or Deliverables. If the audit's findings provide that Consultant has failed to comply with the standards set forth in this Agreement, Denovo shall bear all costs for County's reasonable requests.

p) Subcontract Subcontracting or Assignment of Contract or Contract Funds

Once awarded, this Contract shall not be subcontracted or assigned, in whole or in part, without the advance written approval of the Chief Procurement Officer, which approval shall be granted or withheld at the sole discretion of the Chief Procurement Officer. In no case, however, shall such approval relieve the Consultant from its obligations or change the terms of the

Contract. The Consultant shall not transfer or assign any Contract funds or any interest therein due or to become due without the advance written approval of the Chief Procurement Officer. The unauthorized subcontracting or assignment of the Contract, in whole or in part, or the unauthorized transfer or assignment of any Contract funds, either in whole or in part, or any interest therein, which shall be due or are to become due the Consultant shall have no effect on the County and are null and void.

Prior to the commencement of the Contract, the Consultant shall identify in writing to the Chief Procurement Officer the names of any and all subcontractors it intends to use in the performance of the Contract. The Chief Procurement Officer shall have the right to disapprove any subcontractor. Identification of subcontractors to the Chief Procurement Officer shall be in addition to any communications with County offices other than the Chief Procurement Officer. All subcontractors shall be subject to the terms of this Contract. Consultant shall incorporate into all subcontracts all of the provisions of the Contract which affect such subcontract. Copies of subcontracts shall be provided to the Chief Procurement Officer upon request.

The Consultant must disclose the name and business address of each subcontractor, attorney, lobbyist, accountant, consultant and any other person or entity whom the Consultant has retained or expects to retain in connection with the Matter, as well as the nature of the relationship, and the total amount of the fees paid or estimated to be paid. The Consultant is not required to disclose employees who are paid or estimated to be paid. The Consultant is not required to disclose employees who are paid solely through the Consultant's regular payroll. "Lobbyist" means any person or entity who undertakes to influence any legislation or administrative action on behalf of any person or entity other than:1) a not-for-profit entity, on an unpaid basis, or (2), himself. "Lobbyist" also means any person or entity any part of whose duties as an employee of another includes undertaking to influence any legislative or administrative action. If the Consultant is uncertain whether a disclosure is required under this Article, the Consultant must either ask the County, whether disclosure is required or make the disclosure.

The County reserves the right to prohibit any person from entering any County facility for any reason. All contractors and subcontractors of the Consultant shall be accountable to the Chief Procurement Officer or his designee while on any County property and shall abide by all rules and regulations imposed by the County.

ARTICLE 4) TERM OF PERFORMANCE

a) Term of Performance

This Agreement takes effect when approved by the Cook County Board and its term shall begin on April 22, 2013 ("**Effective Date**") and continue until April 30, 2016 or until this Agreement is terminated in accordance with its terms. If the County terminates the Agreement ,pursuant to 9.c. during the Term of the Agreement, or if the Consultant terminates the Agreement due to any uncured default by the County, County shall be liable for the following fees: (a) All amounts

owed for Services provided by the Consultant up to and including the date of termination; and (b) One hundred percent (100%) of all past due payments as separately invoiced; and (c) an early termination charge equal to 100% of the monthly recurring charges identified in the term of the Agreement, if it is cancelled during Year 1 or Year 2 of the Contract, and a charge equal to 85% of the monthly recurring charges identified in the term of the Agreement, if it is cancelled during Year 3 of the Contract.

Consultant represents that it has a partner relationship with Oracle and that, if the County, upon completing the Term of this Agreement, chooses to migrate to perpetual based licensing, Consultant will make good faith efforts to facilitate negotiations between Oracle and the County regarding an equitable pricing model to make the transition.

b) Timeliness of Performance

i) Consultant must provide the Services and Deliverables within the term and within the time limits required under this Agreement, pursuant to the provisions of Article 4.a and Exhibit 1. Further, Consultant acknowledges that TIME IS OF THE ESSENCE and that the failure of Consultant to comply with the time limits described in this Article 4.b may result in economic or other losses to the County.

ii) Neither Consultant nor Consultant's agents, employees or Subcontractors are entitled to any damages from the County, nor is any party entitled to be reimbursed by the County, for damages, charges or other losses or expenses incurred by Consultant by reason of delays or hindrances in the performance of the Services, whether or not caused by the County.

c) Agreement Extension Option

The Chief Procurement Officer may upon ninety (90) days prior to the expiration of this Agreement elect to extend this Agreement for up to an additional three one (1) one-year periods under the same terms and conditions as this original Agreement, except as provided otherwise in this Agreement, by notice in writing to Consultant. After notification by the Chief Procurement Officer, this Agreement must be modified to reflect the time extension in accordance with the provisions of Article 10.c. Notwithstanding the foregoing, if the Chief Procurement Officer elects to extend this Agreement, the County may exercise its right terminate this Agreement during any renewal period upon providing at least sixty (60) days notice to the Consultant.

The Consultant reserves the right to adjust pricing after the initial Term upon thirty (30) days written notice to County. Price adjustments will not exceed 4% increase for each year the renewal option is exercised.

ARTICLE 5) COMPENSATION

a) Basis of Payment

The County will pay Consultant according to the Schedule of Compensation in the attached Exhibit 4 for the successful completion of services.

b) Method of Payment

All invoices submitted by the Consultant shall be in accordance with the cost provisions according to the Schedule of Compensation in the attached Exhibit 4. The invoices shall contain a detailed description of the Deliverables for which payment is requested. All invoices shall reflect the amounts invoiced by and the amounts paid to the Consultant as of the date of the invoice. Invoices for new charges shall not include "past due" amounts, if any, which amounts must be set forth on a separate invoice. No payments shall be made with respect to invoices which do not include the County Voucher form or which otherwise fail to comply with the requirements of this paragraph. Consultant shall not be entitled to invoice the County for any late fees or other penalties. All amounts to be paid to the Consultant under the Agreement shall be paid in U.S. dollars by wire transfer to the account or accounts designated by the Consultant from time to time or the parties may mutually agree upon another method. All amounts to be paid the Consultant under the Agreement shall be due and payable net 60 days from the date of invoice.

c) Funding

The schedule of payments under this Agreement is identified in Exhibit 4, Schedule of Compensation. Payments under this Agreement must not exceed the dollar amount shown in Exhibit 2 without a written amendment in accordance with Article 10.c.

d) Non-Appropriation

If no funds or insufficient funds are appropriated and budgeted in any fiscal period of the County for payments to be made under this Agreement, then the County will notify Consultant in writing of that occurrence, and this Agreement will terminate on the earlier of the last day of the fiscal period for which sufficient appropriation was made or whenever the funds appropriated for payment under this Agreement are exhausted. Payments for Services completed to the date of notification will be made to Consultant. No payments will be made or due to Consultant and under this Agreement beyond those amounts appropriated and budgeted by the County to fund payments under this Agreement.

e) Taxes

Federal Excise Tax does not apply to materials purchased by the County by virtue of Exemption Certificate No. 36-75-0038K. Illinois Retailers' Occupation Tax, Use Tax and

Municipal Retailers' Occupation Tax do not apply to deliverables, materials or services purchased by the County by virtue of statute. The price or prices quoted herein shall include any and all other federal and/or state, direct and/or indirect taxes which apply to this Contract. The County's State of Illinois Sales Tax Exemption Identification No. is E-9998-2013-05.

f) Price Reduction

If at any time after the contract award, Consultant makes a general price reduction in the price of any of the Deliverables, the equivalent price reduction based on similar quantities and/or considerations shall apply to this Contract for the duration of the Contract period. For purposes of this Article 5.f., Price Reduction, a general price reduction shall include reductions in the effective price charged by Consultant by reason of rebates, financial incentives, discounts, value points or other benefits with respect to the purchase of the Deliverables. Such price reductions shall be effective at the same time and in the same manner as the reduction Consultant makes in the price of the Deliverables to its prospective customers generally.

g) Consultant Credits

To the extent the Consultant gives credits toward future purchases of goods or services, financial incentives, discounts, value points or other benefits based on the purchase of the materials or services provided for under this Contract, such credits belong to the County and not any specific using department. Consultant shall reflect any such credits on its invoices and in the amounts it invoices the County.

ARTICLE 6) DISPUTES

a) General

In the event of any dispute or claim arising under or in connection with the Agreement, including a dispute regarding an alleged breach of the Agreement, one party shall notify the other party in writing of the dispute (the "***Dispute***"). The parties shall work together in good faith first to resolve informally the Dispute internally by escalating it as necessary to progressively higher levels of the administrative structure.

Bona fide disputes shall be subject to the following. The dispute shall be filed by the complaining party in writing with the first tier and, unless resolved, will be escalated according to the time frame below.

CONSULTANT	CUSTOMER	TIME TO ADDRESS
Denovo Account Manager	Chief Procurement Officer	30 days
Director of Service Delivery	Director of ERP	15 days
President	Chief Financial Officer	15 days

If no resolution can be mutually agreed to, the complaining party may then avail themselves of any remedies in law or as set forth in this Agreement. Contractor shall continue to discharge all its obligations, duties and responsibilities set forth in this Agreement during any dispute resolution proceeding unless otherwise mutually agreed to by the parties in writing

(b) Equitable Relief

Subject to completion of the dispute procedure set forth in section (a) above, either party may seek preliminary or other equitable relief from a court of law .

ARTICLE 7) COMPLIANCE WITH ALL LAWS

The Consultant shall observe and comply with the laws, ordinances, regulations and codes of the Federal, State, County and other local government agencies which may in any manner affect the performance of the Contract including, but not limited to, those County Ordinances set forth in the Certifications attached hereto and incorporated herein. Assurance of compliance with this requirement by the Consultant's employees, agents or subcontractors shall be the responsibility of the Consultant.

The Consultant shall secure and pay for all federal, state and local licenses, permits and fees required hereunder.

ARTICLE 8) SPECIAL CONDITIONS

a) Warranties and Representations

In connection with signing and carrying out this Agreement, Consultant:

i) warrants that Consultant is appropriately licensed under Illinois law to perform the Services required under this Agreement and will perform no Services for which a professional license is required by law and for which Consultant is not appropriately licensed;

ii) warrants it is financially solvent; it and each of its employees, agents and Subcontractors of any tier are competent to perform the Services required under this Agreement; and Consultant is legally authorized to execute and perform or cause to be performed this Agreement under the terms and conditions stated in this Agreement;

iii) warrants that it will not knowingly use the services of any ineligible consultant or Subcontractor for any purpose in the performance of its Services under this Agreement;

iv) warrants that Consultant and its Subcontractors are not in default at the time this Agreement is signed, and have not been considered by the Chief Procurement Officer to have,

within 5 years immediately preceding the date of this Agreement, been found to be in default on any contract awarded by the County ;

v) warrants that: (a) all services (including the Services) will be performed in a good and workmanlike manner by individuals with levels of knowledge, skill and experience commensurate with the requirements of the Agreement; (b) The Deliverables will materially conform to relevant specifications, for a period of sixty (60) days from acceptance of the Deliverables; (b) Consultant will use reasonable industry standards to ensure that the Deliverables are and will be free of (i) any automatic restraints, computer viruses, software locks, time bombs or other such code that hinders County's freedom to fully exercise its rights under the Agreement; (ii) programs, code or data which: (1) destroy, erase, damage or otherwise disrupt the normal operation of the Services other programs, hardware or systems utilized by County, or (2) allow for unauthorized access to the Systems or other programs, hardware or systems utilized by County.

vi) represents that it has carefully examined and analyzed the provisions and requirements of this Agreement; it understands the nature of the Services required; from its own analysis it has satisfied itself as to the nature of all things needed for the performance of this Agreement; this Agreement is feasible of performance in accordance with all of its provisions and requirements, and Consultant warrants it can and will perform, or cause to be performed, the Services in strict accordance with the provisions and requirements of this Agreement;

vii) represents that Consultant and, to the best of its knowledge, its Subcontractors are not in violation of the provisions of the Illinois Criminal Code, 720 ILCS 5/33E as amended, and the Illinois Municipal Code, 65 ILCS 5/11-42.1-1; and

viii) Acknowledges that any certification, affidavit or acknowledgment made under oath in connection with this Agreement is made under penalty of perjury and, if false, is also cause for termination under Articles 9.a and 9.c.

b) Ethics

i) In addition to the foregoing warranties and representations, Consultant warrants:

(1) no officer, agent or employee of the County is employed by Consultant or has a financial interest directly or indirectly in this Agreement or the compensation to be paid under this Agreement except as may be permitted in writing by the Board of Ethics.

(2) no payment, gratuity or offer of employment will be made in connection with this Agreement by or on behalf of any Subcontractors to the prime Consultant or higher tier Subcontractors or anyone associated with them, as an inducement for the award of a subcontract or order.

c) Joint and Several Liability

If Consultant, or its successors or assigns, if any, is comprised of more than one individual or other legal entity (or a combination of them), then under this Agreement, each and without limitation every obligation or undertaking in this Agreement to be fulfilled or performed by Consultant is the joint and several obligation or undertaking of each such individual or other legal entity.

d) Business Documents

At the request of the County, Consultant must provide copies of its latest articles of incorporation, by-laws and resolutions, or partnership or joint venture agreement, as applicable.

e) Conflicts of Interest

i) No member of the governing body of the County or other unit of government and no other officer, employee or agent of the County or other unit of government who exercises any functions or responsibilities in connection with the Services to which this Agreement pertains is permitted to have any personal interest, direct or indirect, in this Agreement. No member of or delegate to the Congress of the United States or the Illinois General Assembly and no Commissioner of the Cook County Board or County employee is allowed to be admitted to any share or part of this Agreement or to any financial benefit to arise from it.

ii) Consultant covenants that it, and to the best of its knowledge, its Subcontractors if any (collectively, "**Consulting Parties**"), presently have no direct or indirect interest and will not acquire any interest, direct or indirect, in any project or contract that would conflict in any manner or degree with the performance of its Services under this Agreement.

iii) Upon the request of the County, Consultant must disclose to the County its past client list and the names of any clients with whom it has an ongoing relationship. Consultant is not permitted to perform any Services for the County on applications or other documents submitted to the County by any of Consultant's past or present clients. If Consultant becomes aware of a conflict, it must immediately stop work on the assignment causing the conflict and notify the County.

iv) Without limiting the foregoing, if the Consulting Parties assist the County in determining the advisability or feasibility of a project or in recommending, researching, preparing, drafting or issuing a request for proposals or bid specifications for a project, the Consulting Parties must not participate, directly or indirectly, as a prime, subcontractor or joint venturer in that project or in the preparation of a proposal or bid for that project during the term of this Agreement or afterwards. The Consulting Parties may, however, assist the County in reviewing the proposals or bids for the project if none of the Consulting Parties have a relationship with the persons or entities that submitted the proposals or bids for that project.

v) The Consultant further covenants that, in the performance of this Agreement, no person having any conflicting interest will be assigned to perform any Services or have access to any confidential information, as defined in Section 3.11 of this Agreement. If the County, by the Chief Procurement Officer in his reasonable judgment, determines that any of Consultant's Services for others conflict with the Services Consultant is to render for the County under this Agreement, Consultant must terminate such other services immediately upon request of the County.

vi) Furthermore, if any federal funds are to be used to compensate or reimburse Consultant under this Agreement, Consultant represents that it is and will remain in compliance with federal restrictions on lobbying set forth in Section 319 of the Department of the Interior and Related Agencies Appropriations Act for Fiscal year 1990, 31 U.S.C. § 1352, and related rules and regulations set forth at 54 Fed. Reg. 52,309 ff. (1989), as amended. If federal funds are to be used, Consultant must execute a Certification Regarding Lobbying, which will be attached as an exhibit and incorporated by reference as if fully set forth here.

f) Non-Liability of Public Officials

Consultant and any assignee or Subcontractor of Consultant must not charge any official, employee or agent of the County personally with any liability or expenses of defense or hold any official, employee or agent of the County personally liable to them under any term or provision of this Agreement or because of the County's execution, attempted execution or any breach of this Agreement.

ARTICLE 9) EVENTS OF DEFAULT, REMEDIES, TERMINATION, SUSPENSION AND RIGHT TO OFFSET

a) Events of Default Defined

The following constitute events of default:

i) Any material misrepresentation, whether negligent or willful and whether in the inducement or in the performance, made by Consultant to the County.

ii) Consultant's material failure to perform any of its obligations under this Agreement including the following:

(a) Failure due to a reason or circumstances within Consultant's reasonable control to perform the Services with sufficient personnel and equipment or with sufficient material to ensure the performance of the Services;

(b) Failure to perform the Services satisfactorily as a result of insolvency, filing for bankruptcy or assignment for the benefit of creditors;

(c) Failure to promptly re-perform within a reasonable time Services that were reasonably rejected as erroneous or unsatisfactory;

(d) Discontinuance of the Services for reasons within Consultant's reasonable control; and

(e) Failure to comply with any other material term of this Agreement, including the provisions concerning insurance and nondiscrimination.

iii) Any change in majority ownership or control of Consultant without the prior written approval of the Chief Procurement Officer, which approval the Chief Procurement Officer will not unreasonably withhold, condition or delay.

iv) Consultant's default under any other agreement it may presently have or may enter into with the County during the life of this Agreement. Consultant acknowledges and agrees that in the event of a default under this Agreement the County may also declare a default under any such other Agreements.

(v) Failure to comply with Article 7. in the performance of the Agreement.

(vi) Consultant's repeated or continued violations of County ordinances unrelated to performance under the Agreement that in the opinion of the Chief Procurement Officer indicate a willful or reckless disregard for County laws and regulations.

(viii) If the Consultant has defaulted under the terms of this Agreement, as set forth in Section 9(a) herein, the Consultant shall have an opportunity to cure the default, as set forth in Section 9.b. below in accordance with the Notice Provisions set forth in Article 11, provided that the Consultant has not defaulted under any material terms or conditions of this Agreement during any twelve month -period during the term of this Agreement. Allowing the Consultant time to cure a default does not waive the County's right to terminate this Agreement for a similar default which may occur at a different time.

(vii) County shall be in default hereunder if any material breach of the Agreement by County occurs other than a payment default which is not cured by the County within ninety (90) days after written notice has been given by Consultant to the County, setting forth the nature of such breach. Allowing the County time to cure a default does not waive the Consultant's right to terminate this Agreement for a similar default which may occur at a different time.

b) Remedies

The occurrence of any event of default permits the County, at the County's sole option, to declare Consultant in default. The Chief Procurement Officer shall give Consultant an opportunity to cure the default within a certain period of time, which period of time must not exceed 30 days, unless extended by the Chief Procurement Officer. Whether to declare

Consultant in default is within the sole discretion of the Chief Procurement Officer and neither that decision nor the factual basis for it is subject to review or challenge under the Disputes provision of this Agreement; provided, however, such decision by the Chief Procurement Officer shall not bind or otherwise restrict Consultant's right to contest whether or not it has breached any provision of the Agreement.

The Chief Procurement Officer will give Consultant written notice of the default, either in the form of a cure notice ("**Cure Notice**"), or, if no opportunity to cure will be granted, a default notice ("**Default Notice**"). If the Chief Procurement Officer gives a Default Notice, he will also indicate any present intent he may have to terminate this Agreement, in accordance with and the decision to terminate (but not the decision not to terminate) is final and effective upon giving the notice. The Chief Procurement Officer may give a Default Notice if Consultant fails to effect a cure within the cure period given in a Cure Notice. When a Default Notice with intent to terminate is given as provided in this Article 9.b and Article 11, Consultant shall continue to provide Services through the transition period, as set forth below in Section 9.d, and continue to deliver must discontinue any Services, unless otherwise directed in the notice, and deliver all materials accumulated in the performance of this Agreement, whether completed or in the process, to the County. After giving a Default Notice, the County may invoke any or all of the following remedies:

i) The right to terminate this Agreement as to any or all of the Services yet to be performed effective at a time specified by the County;

ii) The right of specific performance, an injunction or any other appropriate equitable remedy;

iii) The right to money damages within any limitations set forth in the Agreement;

iv) The right to withhold all or any part of Consultant's compensation under this Agreement;

v) The right to consider Consultant non-responsible in future contracts to be awarded by the County.

If the Chief Procurement Officer considers it to be in the County's best interests, he may elect not to declare default or to terminate this Agreement. The parties acknowledge that this provision is solely for the benefit of the County and that if the County permits Consultant to continue to provide the Services despite one or more events of default, Consultant is in no way relieved of any of its responsibilities, duties or obligations under this Agreement, nor does the County waive or relinquish any of its rights.

The remedies under the terms of this Agreement are not intended to be exclusive of any other remedies provided, but each and every such remedy is cumulative and is in addition to any other remedies, existing now or later, at law, in equity or by statute. No delay or omission to exercise any right or power accruing upon any event of default impairs any such right or power, nor is it a

waiver of any event of default, nor acquiescence in it, and every such right and power may be exercised from time to time and as often as the County considers expedient.

c) Early Termination

In addition to termination under Articles 9.a and 9.b of this Agreement, the County may terminate this Agreement or any portion thereof in accordance with the provisions of Article 11. The effective date of termination will be the date stated in the notice.

In the event the County terminates under this provision, after the Consultant receives the notice, Consultant must restrict its activities, and those of its Subcontractors, to winding down any reports, analyses, other activities previously begun, and those Services as set forth in Section 9.d. below. No costs incurred after the effective date of the termination are allowed. Payment for any Services actually performed before the effective date of the termination is on the same basis as set forth in Article 5, but if any compensation is described or provided for on the basis of a period longer than 10 days, then the compensation must be prorated accordingly. No amount of compensation, however, is permitted for anticipated profits on unperformed Services. The County and Consultant must attempt to agree on the amount of compensation to be paid to Consultant, but if not agreed on, the dispute must be settled in accordance with Article 6 of this Agreement. The payment so made to Consultant is in full settlement for all Services satisfactorily performed under this Agreement.

Consultant must include in its contracts with Subcontractors an early termination provision in form and substance equivalent to this early termination provision to prevent claims against the County arising from termination of subcontracts after the early termination. Consultant will not be entitled to make any early termination claims against the County resulting from any Subcontractor's claims against Consultant or the County to the extent inconsistent with this provision.

If the County's election to terminate this Agreement for default under Articles 9.a and 9.b is determined in a court of competent jurisdiction to have been wrongful, then in that case the termination is to be considered to be an early termination under this Article 9.c.

d) Transition Services

If the County issues a Notice to Default to the Consultant based upon a default, as set forth in Section 9.a. and 9.b., or if the County issues a written notice to terminate this Agreement in accordance with Section 9.c., or if the County directs the Consultant during the final year of the initial Term of this Agreement, the Consultant shall, for a period up to one-year following the Notice to Default or Notice to terminate early, or other such written notice, and contingent upon the County continuing to pay for Services rendered at the applicable rates sent forth in the Agreement, continue to provide the Services and Deliverables as set forth herein, and shall also provide Transition Services to the County, which shall include, but are not limited to: (1) providing all necessary Services and assistance to the County at the Consultant's rates set forth

in Exhibit 4 to this Agreement; (2) allowing the County to access all necessary data at no additional costs; and (3) reasonably assisting the replacement provider in outlining steps to migrate data within adequate time-period.

Notwithstanding the foregoing, if the Contract is renewed pursuant to the provisions set forth in 4(c), the County shall provide reasonable notice of the Consultant's duty to provide Transition Services and specify any Transition Services the Consultant shall provide, during the renewal periods, and the Consultant shall in good faith promptly provide such Transition Services.

(e) End of Term Services

If the County, upon completion of the Term of this Agreement, (which shall include any renewal option periods) chooses to migrate to an instance of JD Edwards EnterpriseOne outside of the the Consultant's Cloud JD Edwards EnterpriseOne solution, Consultant will assist in the transmission of any customize or modified objects, configured workflows, developed forms templates, central tables, and business data tables as they exist on the Consultant's Cloud JD Edwards EnterpriseOne solution to a location, mutually agreed upon by the parties, within the County's network.

If the County, upon completion of the Term of this Agreement, chooses to migrate to a non JD Edwards ERP solution, Consultant will assist in County's efforts to convert the Consultant's Cloud JD Edwards EnterpriseOne solution business data tables into the County's chosen ERP solution. This assistance is limited the transmission of the business data tables as they exist on the Consultant's Cloud JD Edwards EnterpriseOne solution to a location, mutually agreed upon by the parties, within the County's network.

f) Suspension

The County may at any time request that Consultant suspend its Services, or any part of them, by giving 15 days prior written notice to Consultant or upon informal oral, or even no notice, in the event of emergency. No costs incurred after the effective date of such suspension are allowed. Consultant must promptly resume its performance of the Services under the same terms and conditions as stated in this Agreement upon written notice by the Chief Procurement Officer and such equitable extension of time as may be mutually agreed upon by the Chief Procurement Officer and Consultant when necessary for continuation or completion of Services. If Services are suspended in excess of fourteen (14) days, the County acknowledges and agrees that Consultant may replace, remove or reallocate its personnel and resources during the suspension and as a result, the County may be assigned new Consultant personnel and/or resources.

Any additional costs or expenses actually incurred by Consultant as a result of recommencing the Services must be treated in accordance with the compensation provisions under Article 5 of this Agreement.

In the event that the County suspends the Services in excess of 45 days and no emergency is deemed to have existed, then the suspension shall be treated as a termination without cause and

Consultant shall be entitled to remedies under this Professional Services Agreement.

g) Right to Offset

i) In connection with performance under this Agreement:

The County may offset any excess costs incurred:

(ii) if the County terminates this Agreement for default or any other reason resulting from Consultant's performance or non-performance;

(iii) if the County exercises any of its remedies under Article 9.b of this Agreement; or

(iv) if the County has any credits due or has made any overpayments under this Agreement.

The County may offset these excess costs by use of any payment due for Services completed before the County terminated this Agreement or before the County exercised any remedies. If the amount offset is insufficient to cover those excess costs, Consultant is liable for and must promptly remit to the County the balance upon written demand for it. This right to offset is in addition to and not a limitation of any other remedies available to the County.

f.) Delays

Consultant agrees that no charges or claims for damages shall be made by Consultant for any delays or hindrances from any cause whatsoever during the progress of any portion of this Contract.

h.) Prepaid Fees

In the event this Contract is terminated by either party, for cause or otherwise, and the County has prepaid for any Deliverables, Consultant shall refund to the County, on a prorated basis to the effective date of termination, all amounts prepaid for Deliverables not actually provided as of the effective date of the termination. The refund shall be made within fourteen (14) days of the effective date of termination.

i.) Disclaimer of Warranties; Exclusivity of Remedies

EXCEPT AS OTHERWISE EXPRESSLY PROVIDED HEREIN OR IN ANY APPLICABLE STATEMENT(S) OF WORK OR OTHER EXHIBITS, CONSULTANT MAKES NO REPRESENTATIONS OR WARRANTIES TO THE COUNTY, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CONSULTANT DOES NOT WARRANT THAT THE SERVICES WILL BE ERROR FREE OR UNINTERRUPTED. THE LIMITED WARRANTIES PROVIDED HEREIN OR IN ANY APPLICABLE STATEMENT OF WORK ARE THE SOLE AND EXCLUSIVE WARRANTIES PROVIDED TO COUNTY IN CONNECTION WITH THE PROVISION OF THE SERVICES. Consultant cannot guarantee the performance of applications provided by or through third party vendors. The County acknowledges that all warranties from third parties pass through to the County and such warranties represent the sole and exclusive warranties relating to those third party applications.

Consultant's sole liability and County's exclusive remedy in the case of a failure to meet or exceed any applicable SLAs as specified in a Statements of Work, shall be the applicable credits/liquidated damages as set forth in the applicable Statement of Work. Provided, however, that if the Consultant fails to comply with the SLAs described in any Statement of Work more than six (6) times during any six (6) consecutive month periods (or such other number of times within a specific time period as may be set forth in such Statement of Work), the County shall have the right to terminate this Agreement with the procedures set forth in Section 9(b) herein.

The County's sole and exclusive remedy for any breach of an express warranty shall be either (1) Consultant correcting the non-conforming Service at no additional charge to County or (2) Consultant refunding to County amounts paid that attributable to the defective Service from the date Consultant received notice of same. In order to receive warranty remedies, the County must promptly report deficiencies in writing to Consultant no later than thirty (30) days after the date the County identifies the deficiency.

j.) Limitation of Liability; Exclusion of Damages

EXCEPT MATTERS RELATING TO BREACHES OF THE SECTIONS ON INTELLECTUAL PROPERTY AND/OR CONFIDENTIALITY, IF EITHER PARTY SHALL BE LIABLE TO THE OTHER PARTY FOR ANY MATTER RELATING TO OR ARISING FROM THE AGREEMENT, WHETHER BASED UPON AN ACTION OR CLAIM IN CONTRACT, WARRANTY, EQUITY, NEGLIGENCE, INTENDED CONDUCT OR OTHERWISE, THE AGGREGATE AMOUNT OF DAMAGES RECOVERABLE AGAINST THE LIABLE PARTY WITH RESPECT TO ANY AND ALL BREACHES, PERFORMANCE, NONPERFORMANCE, ACTS OR OMISSIONS HEREUNDER WILL NOT EXCEED THE AVAILABLE INSURANCE PROCEEDS OR THE AGGREGATE AMOUNT OF FEES ACTUALLY PAID BY COUNTY TO CONSULTANT UNDER THE STATEMENT(S) OF WORK PURSUANT TO WHICH CONSULTANT IS PERFORMING THE SERVICES GIVING RISE TO SUCH BREACH, WHICHEVER IS GREATER. IN NO EVENT SHALL EITHER PARTY OR ITS PERSONNEL BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR EXEMPLARY DAMAGES, COSTS, EXPENSES, OR LOSSES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS AND OPPORTUNITY COSTS) NOR SHALL THEY BE LIABLE FOR ANY CLAIM OR DEMAND AGAINST THE OTHER PARTY BY ANY THIRD PARTY EXCEPT AS

OTHERWISE SPECIFICALLY STATED HEREIN. THE PROVISIONS OF THIS SECTION SHALL APPLY REGARDLESS OF THE FORM OF ACTION, DAMAGE, CLAIM, LIABILITY, COST, EXPENSE, OR LOSS, WHETHER IN CONTRACT, STATUTE, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), OR OTHERWISE.

ARTICLE 10) GENERAL CONDITIONS

a) Entire Agreement

i) General

This Agreement, and the exhibits attached to it and incorporated in it, constitute the entire agreement between the parties and no other warranties, inducements, considerations, promises or interpretations are implied or impressed upon this Agreement that are not expressly addressed in this Agreement.

ii) No Collateral Agreements

Consultant acknowledges that, except only for those representations, statements or promises expressly contained in this Agreement and any exhibits attached to it and incorporated by reference in it, no representation, statement or promise, oral or in writing, of any kind whatsoever, by the County, its officials, agents or employees, has induced Consultant to enter into this Agreement or has been relied upon by Consultant, including any with reference to: (i) the meaning, correctness, suitability or completeness of any provisions or requirements of this Agreement; (ii) the nature of the Services to be performed; (iii) the nature, quantity, quality or volume of any materials, equipment, labor and other facilities needed for the performance of this Agreement; (iv) the general conditions which may in any way affect this Agreement or its performance; (v) the compensation provisions of this Agreement; or (vi) any other matters, whether similar to or different from those referred to in (i) through (vi) immediately above, affecting or having any connection with this Agreement, its negotiation, any discussions of its performance or those employed or connected or concerned with it.

iii) No Omissions

Consultant acknowledges that Consultant was given an opportunity to review all documents forming this Agreement before signing this Agreement in order that it might request inclusion in this Agreement of any statement, representation, promise or provision that it desired or on which it wished to place reliance. Consultant did so review those documents, and either every such statement, representation, promise or provision has been included in this Agreement or else, if omitted, Consultant relinquishes the benefit of any such omitted statement, representation, promise or provision and is willing to perform this Agreement in its entirety without claiming reliance on it or making any other claim on account of its omission.

b) Counterparts

This Agreement is comprised of several identical counterparts, each to be fully signed by the parties and each to be considered an original having identical legal effect.

c) Modifications and Amendments

The parties may during the term of the Contract make modifications and amendments to the Contract but only as provided in this Article. Such modifications and amendments shall only be made by mutual agreement in writing.

In the case of Contracts not approved by the Board, the Chief Procurement Officer may amend a contract provided that any such amendment does not extend the Contract by more than one (1) year, and further provided that the total cost of all such amendments does not increase the total amount of the Contract beyond $150,000. Such action may only be made with the advance written approval of the Chief Procurement Officer. If the amendment extends the Contract beyond one (1) year or increases the total award amount beyond $150,000, then Board approval will be required.

No County department or employee thereof has authority to make any modifications or amendments to this Contract. Any modifications or amendments to this Contract made without the express written approval of the Chief Procurement Officer is void and unenforceable.

Consultant is hereby notified that, except for modifications and amendments which are made in accordance with this Article10.c., Modifications and Amendments, no County department or employee thereof has authority to make any modification or amendment to this Contract.

d) Governing Law and Jurisdiction

This Contract shall be governed by and construed under the laws of the State of Illinois. The Consultant irrevocably agrees that, subject to the County's sole and absolute election to the contrary, any action or proceeding in any way, manner or respect arising out of the Contract, or arising from any dispute or controversy arising in connection with or related to the Contract, shall be litigated only in courts within the Circuit Court of Cook County, State of Illinois, and the Consultant consents and submits to the jurisdiction thereof. In accordance with these provisions, Consultant waives any right it may have to transfer or change the venue of any litigation brought against it by the County pursuant to this Contract.

e) Severability

If any provision of this Agreement is held or considered to be or is in fact invalid, illegal, inoperative or unenforceable as applied in any particular case in any jurisdiction or in all cases because it conflicts with any other provision or provisions of this Agreement or of any constitution, statute, ordinance, rule of law or public policy, or for any other reason, those

circumstances do not have the effect of rendering the provision in question invalid, illegal, inoperative or unenforceable in any other case or circumstances, or of rendering any other provision or provisions in this Agreement invalid, illegal, inoperative or unenforceable to any extent whatsoever. The invalidity, illegality, inoperativeness or unenforceability of any one or more phrases, sentences, clauses or Articles in this Agreement does not affect the remaining portions of this Agreement or any part of it.

f) Assigns

All of the terms and conditions of this Agreement are binding upon and inure to the benefit of the parties and their respective legal representatives, successors and assigns.

g) Cooperation

Consultant must at all times cooperate fully with the County and act in the County's best interests. If this Agreement is terminated for any reason, or if it is to expire on its own terms, Consultant must make every effort to assure an orderly transition to another provider of the Services, if any, orderly demobilization of its own operations in connection with the Services, uninterrupted provision of Services during any transition period and must otherwise comply with the reasonable requests and requirements of the Department in connection with the termination or expiration.

The County shall perform the tasks and responsibilities assigned to it in the Agreement, (collectively, the "**County Responsibilities**"). In addition, the County shall be responsible for providing leadership and for making the internal changes required to achieve the business objectives and benefits defined in the business case set forth herein, including modification of current business practices, policies and procedures. The County will be responsible for (i) acceptance/sign-off of Deliverables, (ii) its use of the Deliverables and (iii) to the extent that Deliverables are within the County's direct control, ensuring that the Deliverables meet the County's policies and business requirements and comply with laws and regulations. The County agrees that Consultant's performance of Services and Additional Services under the Agreement depends in substantial part on the County's timely and effective satisfaction of the County Responsibilities, which may include provision of facility resources and the County-Provided Materials, and on the County's timely decisions and approvals. Further, some Statements of Work may be provided at a fixed price. Consultant only agrees to provide such a fixed price because Consultant expects that the County will cooperate and perform in a timely manner under the Agreement. Accordingly, the County acknowledges that any material delay, caused solely by the County shall result in Consultant being released from any applicable obligation or scheduled deadline and, with respect to fixed price Statements of Work, an equitable price adjustment.

h) Waiver

Nothing in this Agreement authorizes the waiver of a requirement or condition contrary to law or ordinance or that would result in or promote the violation of any federal, state or local law or ordinance.

Whenever under this Agreement the County by a proper authority waives Consultant's performance in any respect or waives a requirement or condition to either the County's or Consultant's performance, the waiver so granted, whether express or implied, only applies to the particular instance and is not a waiver forever or for subsequent instances of the performance, requirement or condition. No such waiver is a modification of this Agreement regardless of the number of times the County may have waived the performance, requirement or condition. Such waivers must be provided to Consultant in writing.

i) Independent Contractor

This Agreement is not intended to and will not constitute, create, give rise to, or otherwise recognize a joint venture, partnership, corporation or other formal business association or organization of any kind between Consultant and the County. The rights and the obligations of the parties are only those expressly set forth in this Agreement. Consultant must perform under this Agreement as an independent contractor and not as a representative, employee, agent, or partner of the County.

This Agreement is between the County and an independent contractor and, if Consultant is an individual, nothing provided for under this Agreement constitutes or implies an employer-employee relationship such that:

i) The County will not be liable under or by reason of this Agreement for the payment of any compensation award or damages in connection with the Consultant performing the Services required under this Agreement.

ii) Consultant is not entitled to membership in the County Pension Fund, Group Medical Insurance Program, Group Dental Program, Group Vision Care, Group Life Insurance Program, Deferred Income Program, vacation, sick leave, extended sick leave, or any other benefits ordinarily provided to individuals employed and paid through the regular payrolls of the County.

iii) The County is not required to deduct or withhold any taxes, FICA or other deductions from any compensation provided to the Consultant.

j) Governmental Joint Purchasing Agreement

Pursuant to Section 4 of the Illinois Governmental Joint Purchasing Act (30 ILCS 525) and the Joint Purchase Agreement approved by the Cook County Board of Commissioners (April 9, 1965), other units of government may purchase goods or services under this contract.

ARTICLE 11) NOTICES

All notices required pursuant to this Contract shall be in writing and addressed to the parties at their respective addresses set forth below. All such notices shall be deemed duly given if hand delivered or if deposited in the United States mail, postage prepaid, registered or certified, return receipt requested. Notice as provided herein does not waive service of summons or process.

If to the County:

Cook County Bureau of Finance
118 North Clark Street, Room 1127
Chicago, Illinois 60602
Attention: DIRECTOR OF ERP

and

Cook County Chief Procurement Officer
118 North Clark Street. Room 1018
Chicago, Illinois 60602
(Include County Contract Number on all notices)

If to Consultant:

Denovo
6328 Monarch Park Place
Niwot, CO 80503
Attention: Legal Department
Email: legalnotices@denovo.us.com

and

Ireland Stapleton Pryor & Pascoe, PC
1675 Broadway, Suite 2600
Denver, Colorado 80202
Attention: Michael R. Miller
Email: mmiller@irelandstapleton.com

Changes in these addresses must be in writing and delivered in accordance with the provisions of this Article 11. Notices delivered by mail are considered received three days after mailing in accordance with this Article 11. Notices delivered personally are considered effective upon receipt. Refusal to accept delivery has the same effect as receipt.

ARTICLE 12) AUTHORITY

Execution of this Agreement by Consultant is authorized by a resolution of its Board of Directors, if a corporation, or similar governing document, and the signature(s) of each person signing on behalf of Consultant have been made with complete and full authority to commit Consultant to all terms and conditions of this Agreement, including each and every representation, certification and warranty contained in it, including the representations, certifications and warranties collectively incorporated by reference in it.

EXHIBIT 1

Scope of Services

Exhibit 1, Schedule A - Statement of Work (SOW) 001 Denovo – Cook County

This STATEMENT OF WORK (the "Statement of Work") is entered into in connection with and pursuant to the provisions of the Professional Services Agreement (the "Agreement") between Denovo Ventures, LLC doing business as Denovo ("Denovo") and **Cook County, Illinois** ("Client"). Capitalized terms shall have the respective meanings assigned to such terms in the Agreement unless otherwise defined herein.

Pursuant to Section 3.1 of the Agreement, Denovo and Client desire to enter this Statement of Work for the performance by Denovo of certain Managed Services, which are described herein. Such services shall be provided by Denovo pursuant to the terms and conditions set forth herein and the Agreement.

Effective Date: April 22, 2013

Initial Term: May 1, 2013 through April 30, 2016

ARTICLE 1 – DEFINITIONS

As used in this Statement of Work the following terms shall have the respective meanings set forth therein. Other terms used in this Statement of Work are defined in the context in which they are used and shall have the meanings therein indicated.

"**Business Continuity**" involves planning for keeping all aspects of a business functioning in the midst of disruptive events, disaster recovery focuses on the IT or technology systems that support business functions.

"**Current Audit Report**" shall mean Denovo's most recently completed SSAE 16 (SOC1 and SOC2) audit report.

"**Customer Care Portal**" is the portal in which the Client can open support requests and track those requests.

"**Disaster Recovery**" is the process, policies and procedures that are related to preparing for recovery or continuation of technology infrastructure which are vital to an organization after a natural or human-induced disaster.

"**Incident**" is an ITIL designation for alarm or outage tracking. Tickets are created as Incidents for the Denovo and/or Client to respond to in the event of an alarm. Incidents adhere to severity levels set forth in the Service Level Agreement section.

"**In-Scope**" is services that are defined as services covered under this Statement of Work.

"**Out-of-Scope**" is services that are NOT defined as Services under this Statement of Work, that may require additional scoping and/or an additional SOW for managed services, or professional consulting services, and those services that this Statement of Work designates as Out-of-Scope. All Out of Scope issues are best effort.

Project Change Request ("PCR") is the method for communicating changes to the scope of Services outlined in this SOW. Scope changes may include the addition or subtraction of services pertinent to this SOW. Client must request a PCR for scope changes. The PCR must describe the requested change in sufficient detail for Denovo to make a reasonable assessment of the request. Denovo will review the PCR and follow up with Client as necessary for further clarification or to discuss the impact that the change will have on the Services, deliverables, implementation schedule, SLA's, terms and conditions, and Client pricing. Both parties together will either approve or reject the proposed change. The PCR will be signed by both parties to show their agreement to the changes specified in the PCR.

"**Security Policy**" shall mean Denovo's enterprise security policy.

"**Services**" means Denovo-provided continuous access to all hosted applications and components, including Denovo Cloud JD Edwards EnterpriseOne solution and 3rd party products (front end analytics, reporting tools, integration tools, or others).

"**Service Level Agreement or SLA**" describes the various specifics of the Services (including uptime guarantees, downtime, credits, maintenance, availability, exclusions, trouble tickets, credit limitations, and internet bandwidth measurements).

"**Service Start Date**" Is the date Denovo enables access to the Services for Client use. Denovo notifies Client (in writing via email) of environment readiness. Monthly recurring billing begins on the Service Start Date.

"**System Documentation**" Documentation of the physical and logical components of your hosted environment. This will include a network diagram, software components installed, customization of the system, and all other pertinent documentation.

"**Technical Assessment**" a technical assessment is a process to review your current or to be hosted systems to assess the health of the system and give recommendations on best practice. We will also perform a review of all system requirement's integration points, and migration strategy's to make a successful go-live / migration.

"**Vulnerabilities**" are flaws in computer software that create weaknesses in the overall security of the computer or network. Vulnerabilities can also be created by improper computer or security configurations. Threats exploit the weaknesses of vulnerabilities resulting in potential damage to the computer or data.

"**Term**" shall mean the period of time beginning with Your acceptance of the Agreement and continuing through the end of all Initial Term(s) and any Renewal Term(s), unless Client access to the Services is terminated earlier pursuant to the terms of this Agreement, in which case it shall be the date of termination.

"**You or Your**" Is broadly interpreted to mean the person and/or entity entering into the Agreements and/or any Order/Change Order pursuant to this Agreement, and Representatives, and any individual and/or entity utilizing the Services via Client's Passwords.

ARTICLE 2 –MANAGED SUPPORT SERVICES

Under this statement of work, Denovo shall provide the following services and software necessary to deliver the Denovo Cloud JD Edwards EnterpriseOne solution for Client:

Managed Support Services to be provided under this Statement of Work:

SECTION 1 – Infrastructure and Network Connectivity

SECTION 2 – Customer Care Services (Service Desk)

SECTION 3: - Technical Managed Services

SECTION 4: - Application Support Managed Services

JD Edwards Software modules to be delivered as part of this Statement of Work:

- Oracle Technology Foundation for JD Edwards EnterpriseOne 9.1
- JD Edwards EnterpriseOne 9.1 System Foundation
- JD Edwards EnterpriseOne 9.1 Time and Labor
- JD Edwards EnterpriseOne 9.1 US Payroll
- JD Edwards EnterpriseOne 9.1 Human Resources Management
- JD Edwards EnterpriseOne 9.1 Health and Safety Incident Management *
- JD Edwards EnterpriseOne 9.1 Human Resources Self-Services (Employee and Manager)
- JD Edwards EnterpriseOne 9.1 Financial Management (minimal for Organizational components, Journal Entries, and inquiry)
- JD Edwards EnterpriseOne 9.1 One View Reporting Foundation
- JD Edwards EnterpriseOne 9.1 One View for Payroll
- JD Edwards EnterpriseOne 9.1 One View for Human Resources
- JD Edwards EnterpriseOne 9.1 One View for Health and Safety Incident Management *
- JD Edwards EnterpriseOne 9.1 One View for Financials
- Oracle User Productivity Kit Professional (UPK)
- Vertex Payroll Tax Q Series

  * There modules will be implemented in the future and are not included in the scope of this project.

Infrastructure Software to be delivered as part of this Statement of Work:

- Database Server:
  - Operating System - Red Hat Linux v.6,
  - Database - Oracle 11 G
- Application Servers:
  - Operating system - Red Hat Linux v.6 or Windows 2008 (depending on servers function)
  - JD Edwards EnterpriseOne 9.1
- JAS/HTML servers:
  - Operating system – Linux Weblogic v 10.3.5
- Web Server – WebLogic v 10.3.5
- Deployment Server
  - Operating System – Windows 2008
  - JD Edwards EnterpriseOne 9.1
- Anti-virus - Symantec

- Infrastructure Monitoring - Nimsoft v6.2
- Backups - TSM v6.1

With Client's consent which it shall not unreasonably withhold, Denovo may change the above JD Edwards EnterpriseOne and infrastructure software during this Agreement.

This SOW specifically excludes professional consulting services to migrate/implement the solution, as those services are set forth in separate scopes of work and exhibits to this Agreement. This SOW also specifically excludes professional consulting services that Client may request on a time and materials basis to implement additional modules and functionality throughout the term of the contract.

SECTION 1 – Infrastructure and Network Connectivity

Location

Denovo currently plans to locate the infrastructure and network components which provide the compute power, storage and telecommunications equipment to Client at Denovo's Colorado facilities. Upon Client's consent, which it shall not reasonably withhold, Denovo may relocate the aforementioned infrastructure, network components or facilities to another physical location within the continental United States of America. Denovo's responsibility for maintaining the performance of the Denovo Cloud JD Edwards EnterpriseOne solution begins in the Denovo data center and ends at the firewall installed in Client's facilities. Denovo agrees that at no time will these components be located in a facility outside the continental United States of America.

Client Infrastructure Requirements

In order to effectively and safely access the Denovo Cloud JD Edwards EnterpriseOne solution Client's infrastructure and network must meet the following requirements:

- As it relates to the Denovo Cloud JD Edwards EnterpriseOne solution all desktops, notebooks, laptops, and workstations must be installed with software and configured to meet the current Oracle supplied minimum technical requirements which are provided at the following website. http://docs.oracle.com/cd/E25290_01/doc.60/e25224/certifications.htm
- Client's infrastructure and network will have a currently licensed, up-to-date and vendor-supported server-based antivirus solution protecting all servers, developer workstations, desktops and laptops.
- All desktops, notebooks, and laptop software must be genuine, licensed and vendor-supported. This is especially important as it relates to supported browser versions.
- A technical assessment of Client's infrastructure must be completed by Denovo during implementation/migration project.

Infrastructure Managed Services (Monitoring, Management, Maintenance and Security)

Using the Denovo Cloud™, Denovo will provide the compute power, storage, and telecommunications equipment for Multi-Protocol Label Switching (MPLS) to support the JD Edwards EnterpriseOne environments (maximum of 9. The six (6) planned environments will be Pristine, Training, Test, Development, Conversion, and Production. Three (3) additional environments will be available on an as needed basis as directed by Client.

Infrastructure Monitoring

After pre-Production acceptance testing is completed, and before Production cutover occurs, Denovo and Client will define a reference set of agreed upon OLTP queries to run every 10 minutes. This will be measured within the Denovo datacenter. The performance stats will be available in the customer portal 24x7.

Base monitoring for compute power and storage will be performed. Monitoring is per interval, with thresholds.

Five (5) minute interval with thresholds (if available by device)

- Polling of IP address
- Polling of CPU usage. (LCL 0%, UCL 95%)
- Polling of swap memory usage. (LCL 0%, UCL 95%)
- Polling of physical memory usage. (LCL 0%, UCL 95%) ** NOTE** for Unix/Linux UCL 100%
- Polling of system latency from poller to device (LCL 0ms, UCL 500ms)

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- Service monitoring, with per service event generation (all service monitoring is off by default services must be specified for event generation)
- Process monitoring; with per process event generation (all process monitoring is off by default, critical processes must be specified)

Fifteen (15) minute interval with thresholds where applicable (if available by device)

- Polling of interface statistics for IO throughput, (LCL -1%, UCL 94%)
- Polling of interface statistics for discards, (LCL -1, UCL 1000)
- Polling of interface statistics for errors (CRC, FCS, RUNT, JUMBO), (LCL -1, UCL 30)
- Polling of file system usage (LCL 0%, UCL 93%)
- One (1) hour interval or longer with thresholds where applicable (if available by device)
- Software package monitoring, revision and installation date
- Polling of chassis health (Power, Temp, Fan Status)

Infrastructure Management

Denovo will monitor for advanced troubleshooting, repair, and changes as required to support Denovo's infrastructure. Specifically Denovo will perform the following In-Scope services:

- Software patch management addition or removal, including, database, operating system, and drivers; application updates are covered under Technical Managed services. Patching is driven by the necessity due to an incident or identified critical/exploited vulnerability. Denovo shall continuously monitor for vulnerabilities. Patches occur quarterly and security reviews are performed on an as needed basis. Critical patches will be applied as required.
- Creation/removal of user accounts required for access to development workstations.
- Creation/modification of scripts and/or batch files for log management, common tasks.
- Group policy creation or modification for Active Directory or system roles as required to access development workstations.
- Software package and licensing audits; as it relates to the Denovo Cloud JD Edwards EnterpriseOne solution.

Customer Care Portal

The Customer Care Portal is designed to be a central location for client to access information about the services Denovo is providing. This portal will enable Client to open support requests and track those requests. The portal will also be a central location for documentation for the services provided. All reports will be published to the Customer Portal for Client to access 24X7.

Denovo will provide twice annual training sessions for multiple individuals via a web session on using the portal for reporting and statistics. Additional requests for training may be subject to time and material fees. Denovo shall provide reusable training material to Client, which Client may use for training its employees, contractors and agents. To the extent that such training material is Denovo's Intellectual Property as defined in this Agreement, Client shall have a license to use such training materials beyond the termination of this Agreement for the aforementioned training purposes.

Infrastructure Maintenance Schedule

Maintenance of the Denovo data center equipment will occur during the normal maintenance windows once a month (usually during a Saturday starting at 9:00 p.m. and ending at 3:00 a.m. Sunday morning, Central Time). Denovo reserves the right to extend maintenance past the allotted time as needed but in conjunction with Client's approval. The Normal Maintenance Window is subject to change and will be agreed upon by both Denovo and Client upon, and the new normal maintenance window will become effective upon agreed date.

Access to Infrastructure

It is the responsibility of Client to provide Client users with the appropriate technology to connect to Client's network remotely when such access is authorized by Client. Denovo will not provide access to the Denovo Cloud JD Edwards EnterpriseOne solution outside of Client's network.

Security:

Denovo shall at a minimum maintain the security program which is further described in the Current Audit Report and the Security Policy. Denovo will allow Clients to achieve differentiated configurations, to the extent that such configurations do not use controls materially less protective than those provided in the Security Policy and the Current Audit Report.

Infrastructure Physical Security:

Annually and without cost to Client, Denovo shall complete a SOC 1 (formerly SAS70), SOC 2. The audit report will be provided upon request in hard copy form Denovo's data center facility shall, at a minimum, have:

- 3 layers of security with biometrics and video surveillance
- Fully redundant network
- Fully redundant power
- Configured uninterruptible power systems
- On-site diesel-powered generators
- High density power handling
- N+1 configured cooling systems
- 20-ton and 30-ton Datacenter Air Conditioning units
- Multi-layer security and monitoring systems
- 24x7x365 staffing

Infrastructure Logical Security

Production data will be stored on a different server from non-production data. JD Edwards EnterpriseOne user security will determine database access and update authority, and Test/Dev/Prod schemas will be utilized to keep users in specific environments. Additional information about JD Edwards EnterpriseOne data security is available at:

http://docs.oracle.com/cd/E17984_01/doc.898/e14717/jde_e1_security.htm

All Operating System level access will follow the Denovo Enterprise Security Policy which has been provided to Client and will be updated and available upon request.

Application Logical Security

Using JD Edwards EnterpriseOne security, Client will administer security for individual users and for groups of users. Denovo will work with Client to set up security to ensure users in the system have permission to perform only those actions (add, change delete) and be able to view only the data, including masking sensitive fields in the data record, that is essential to complete their jobs. The JD Edwards EnterpriseOne security protects all JD Edwards EnterpriseOne environments.

JD Edwards EnterpriseOne User Provisioning

User provisioning to the Denovo Cloud JD Edwards EnterpriseOne solution will be provided by Client through the use of Client's active directory or other means utilized by Client.

Virus Recovery for Current, Licensed Antivirus protected systems

Recovery from damages caused by virus infections not detected and quarantined by the latest Antivirus definitions is not covered under the terms of this Agreement. Denovo subscribes to and relies on Symantec to automatically update our virus definition libraries.

SECTION 2 – Customer Care Services (Service Desk)

Customer Care Services is the focal point for Client interaction with Denovo. Customer Care provides Tier 1, 2 and 3 support as defined in Article 4 Service Level Agreements. Denovo will handle support of the Services as follows:

Step 1. Client will create a service ticket when reporting an issue with the Denovo Cloud JD Edwards EnterpriseOne solution. The service ticket will be submitted by calling the Service Desk directly, sending an email to the Service Desk, logging the issue through the Customer Care portal, or using Client's integrated help desk. Client will receive a confirmation email automatically when their ticket has been entered into the Service Desk system.

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Step 2. If the Service Desk is not able to resolve the ticket as a tier one issue then they assign it to a qualified Denovo representative as a tier 2 ticket.

Step 3. The Denovo representative receives the service ticket through Denovo's automated workflow system and communicates with Client immediately upon receipt that they have been assigned the service ticket and are working their issue. This will result in an exchange of dialog/e-mails to further understand the issue.

Step 4. If the person responsible is not able to personally resolve the issue they will elevate the ticket to tier 3 and will call upon other qualified members of the Denovo team or the software vendor.

Step 5. Once the issue is resolved, it will be documented both at the Service Desk and with the individual or system who requested the service request.

Clients Ability to Manage Tickets

Client will be provided up to two (2) ITIL user licenses to manage service tickets in the Denovo Customer Care portal.

Integration with Other Help Desk Solution

Denovo will integrate with Client's help desk solution. Any custom integration services required to provide this integration will be provided on a time and materials basis. Standard integrations which are pre built integrations supported by ServiceNow will be provided at a minimal cost to Client.

Support and Escalation

Denovo will respond to Client's tickets under the provisions of the Service Level Agreement, and with best effort after hours or on holidays. Client must open tickets via phone, email, web portal, or Client's integrated help desk to Denovo's Service Desk. Each service request will be assigned a Trouble Ticket number for tracking. Mutually agreed upon escalation procedures will be established prior to go-live.

Coverage Hours – Denovo provides a manned Service Desk 24 hours a day 7 days a week. Managed services will be provided during coverage hours; 7:00 am to 7:00 pm Central Time Monday through Friday, excluding Client holidays, unless otherwise mutually agreed upon by the parties.

Service outside Coverage Hours - Emergency services (Severity 1) will be performed outside of the hours of 7:00 am – 7:00 pm Central Time Monday through Friday, including Saturday and Sunday and all Client holidays, shall not be billed separately and are included in this service. All other services will be performed during coverage hours. Article 4 defines Severity 1 issues.

Service Desk Escalation Process

Issues that are not resolved through standard support and help desk services, as described in this Section, may be escalated by Client to the Denovo Account Manager assigned to Client. If Client believes it is not getting the response it is looking for from the Account Manager, Client may escalate the issue to the Service Desk Director. The Service Desk system will automatically escalate the issue based on the thresholds defined in Article 4 Service Level Agreements.

Service Desk Reporting

Denovo shall provide Client with real time access to reports detailing Client's help desk requests for service and the timing and resolution of those requests by the Denovo Customer Support Team through the Customer Care Portal. Such reports shall be sufficiently detailed to, at a minimum, allow the Client to determine whether Denovo has met its Service Level Agreements.

SECTION 3: Technical Managed Services

Denovo has around the clock, seven (7) days a week, every day of the year, technical support coverage of all its data center operations and infrastructure. Denovo provides technical managed services to support system and database administration type Client activities within the Denovo Cloud JD Edwards EnterpriseOne solution during the Term of the Statement of Work. These services are requested via Denovo's Customer Care Services ("Service Desk") and provided remotely during Coverage Hours unless otherwise mutually agreed upon by the parties.

The following technical managed services are In-Scope in this Statement of Work.

Note 1: Up to nine (9) refreshes will be performed per month regardless of the individual environment being refreshed. A refresh script will be created to provide daily auto refresh of one (1) environment.

JD Edwards EnterpriseOne	Frequency	Time Period
CNC Services		
Printer Setup and Maintenance	As Needed	Coverage Hours
Development Package Build-Update(DV/PY)	3-Weekly	Coverage Hours
Development Package Build-Full(DV)	1-Monthly	Coverage Hours
Prototype Package Build-Full(PY)	1-Monthly	Coverage Hours
Production Package Build-Update	1-Weekly	As scheduled with Client
Production Package Build-Full	1-Monthly	As scheduled with Client
Environment Refresh-Data/Objects	1-Monthly Note 1	Coverage Hours
Environment/Path Code/OMW Maintenance	As Needed	Coverage Hours
OCM Maintenance	As Needed	Coverage Hours
Purge print queue, log directories, and workflow messages	Monthly	Coverage Hours
Technical Assistance and Troubleshooting	As Needed	Coverage Hours
Technical Assistance and Troubleshooting-Sev 1	As Needed	24X7
Installation of EnterpriseOne ESU's	As Needed	Coverage Hours
Installation of EnterpriseOne Tools releases	Annually	Coverage Hours
Installation of EnterpriseOne application updates (ASU's)	As Needed	Coverage Hours
Security Administration	As Needed	Coverage Hours
Technical Diagnosis/Performance/Design Improvements		
System Audit and Recommendation	Annual	Coverage Hours
Security Audit and Recommendation	Annual	Coverage Hours
Performance Tuning and Optimization	As Needed	Coverage Hours
Monitoring Services		
EnterpriseOne Application Monitoring	Ongoing	Coverage Hours
Proactive Database Monitoring	Ongoing	Coverage Hours

Database Administration Services	Frequency	Time Period
Database Software Updates and Patches	Quarterly	Maintenance Window
Database Performance Tuning and Optimization	As Needed	Coverage Hours
Database Security Administration	As Needed	Coverage Hours
Database Capacity Planning	As Needed	Coverage Hours
Database Backups	Daily	As scheduled with Client

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Database Administration Services	Frequency	Time Period
Database Recoveries	As Needed	Coverage Hours
Database Recovery Testing	Yearly	Coverage Hours

Batch Processing Performance

Denovo will provide monitoring of the job queues and Client will be notified by email, text message or pager. These alerts will be sent when:

- any time a batch process fails during a production run
- any time a submitted job remains in a "waiting" status for longer that a predetermined period of time
- any time a job is in "active" status for longer than a predetermined period of time

Denovo commits it will do everything within its control to ensure that Client's payroll cycles and other time critical processes are completed within the parameters of Client's business needs.

Out of Scope Services

The following technical managed services are Out-of -Scope in this Statement of Work:

- Technical managed services required to bring Client's infrastructure and network up to minimum standards required for Services.
- Technical managed services required to support migration/implementation activities, installation activities, or other project related activities requested by Client; these services will be billed on a time and material basis under a separate statement of work, Exhibit 1 Schedule B SOW 002 Professional Services included in the Agreement.
- Programming or development services are not included in technical managed services; these services will be billed on a time and material basis under a separate statement of work.
- Training services; these services will be billed on a time and material basis under a separate statement of work.
- Major release of JD Edwards EnterpriseOne; due to the intrusive nature of a major release of the JD Edwards EnterpriseOne software, any services performed in junction with a major release will be bill on a time and material basis under a separate statement of work.

SECTION 4: Application Support Managed Services

Denovo will provide application support managed services (ASMS) to assist Client's activities with the JD Edwards EnterpriseOne solution delivered via the Denovo Private Cloud during the Term of the Statement of Work. ASMS provides functional support for the various modules licensed under your Oracle JD Edwards EnterpriseOne Software Licensing agreement. (See Exhibit 2 Schedule A of the "Agreement"). ASMS assistance is requested via Denovo's Customer Care Services ("Service Desk") and provided remotely during Coverage Hours unless otherwise mutually agreed upon by the parties.

The following application support managed services are In-Scope in this Statement of Work:

- a direct response to users with respect to inquiries concerning the performance, functionality, or operation of the supported programs
- a direct response to users with respect to problems or issues with the supported programs
- a diagnosis of problems or issues of the supported programs
- reasonable efforts to resolve reported and verifiable errors in supported programs such that reported programs perform in all material respects as described in the associated documentation
- escalation of support ticket to Denovo Management
- review of problems or issues by the supported program's vendor

The following application managed services are Out-of-Scope in this Statement of Work:

- Application managed services required to support migration/implementation activities, installation activities, or other project related activities requested by Client; these services will be billed on a time and material basis under a separate statement of work.

- Training services; these services will be billed on a time and material basis under a separate statement of work.
- Assistance with implementing a major release of JD Edwards EnterpriseOne; due to the complex nature of a new, major release of the JD Edwards EnterpriseOne software, any services performed in conjunction with the upgrade of a major release will be billed on a time and material basis, delivered under a separate statement of work. Such as but not limited:
    - User Training
    - Verification of 3rd party integrations to EnterpriseOne, etc.
    - Reporting changes
    - Business process improvements

ARTICLE 3 – BACKUPS AND DISASTER RECOVERY

Backups

Denovo uses IBM Tivoli Storage Manager (TSM), a client/server tool, for backing up and/or archiving data from various machines to a central server or tape library. TSM performs a full back up the first time it backups a client's environment. After that it performs incremental backups or selective backups depending upon Client requirements.

By default, Denovo will keep 30 versions of Client's production data and 10 versions of Client's test and development data. Once data has been marked for deletion it will be kept for 30 days. All data including OS files, database files, application data, and all user data is backed up nightly unless Client requests a different backup schedule. Database backups incremental backups will be performed nightly and a full database backup will be performed weekly. Denovo shall encrypt all backup tapes and shall not share such tapes with any third party except with Client's consent except for Denovo designated offsite storage provider. Client will be responsible for any costs related to encrypting backups. Two sets of tapes are created for each backup. One is stored off-site for archiving purposes and one is stored onsite for recovery and restore purposes. By default, Denovo uses an indefinite archiving and retention period, thus, we do not reuse archive tapes. Client is responsible for the cost of the tapes. Denovo does reserve the right to change backup solutions and methodology with proper notification to Client. Client can request data recovery or backup through the Customer Care portal.

Denovo will provide database backups and a retention policy based upon a mutually agreed upon schedule, similar to the one below:

Description	Retention Period
Baseline	Until first annual + 1 month
Daily	6 days
Weekly	4 weeks
Monthly	11 months
Annual	7 years

Denovo will work with Client prior to transitioning services to understand your business requirements, which may or may not change our backup and retention methodology.

Requested Data Restore

Except where Client declares that a disaster has occurred in which case Denovo shall perform its obligations as set forth under the Disaster Recovery section of this Statement of Work, Denovo shall begin restoring the Client's data files within 24 business hours. Client can request a restore by either calling the Customer Care center or opening a ticket in the Customer Care Portal. The actual length of time to restore the data is dependent upon the amount of data to be restored. Additional details of the restore process are provided in the Denovo Data Restore document.

Client may request back-up copies of Client's data and other files from Denovo in the Denovo format, at Client's own expense. Denovo will test the recovery of backup tape once per year.

Disaster Recovery

Denovo will use a traditional disaster recovery model to provide disaster recovery services to Client in the event that it is mutually agreed that a disaster recovery event has occurred. The traditional disaster recovery model uses a tape recovery system to rebuild the Denovo Cloud JD Edwards EnterpriseOne production (PD) environment. This model will provide a recovery point objective of 24 hours

and a recovery time objective of 48-72 hours depending on the amount of data being "transferred from tape" at the time of the event,. Using this model, the fail back to the primary data center will require the same tape recovery process "backup and restore" as performed in the disaster recovery center.

The location where the disaster recovery services will be performed will be one of Denovo's data centers or a partner service based in the United States of America. A disaster recovery event lasting more than 72 hours may incur a daily service charge.

Denovo shall perform, with the participation of Client, one recovery rehearsal per year, with 90-day notice. Client's participation is required for all recovery rehearsals. More than one disaster recovery rehearsal can be requested per year at an additional fee.

Client shall be responsible for developing a business continuity plan. Client shall be responsible for developing a recovery plan that integrates with Denovo's disaster recovery model. Denovo shall provide its disaster recovery model during the installation stage of the implementation.

ARTICLE 4 –SERVICE LEVEL AGREEMENTS

The following table shows the targets of response and resolution times for each priority level in the JD Edwards EnterpriseOne Production environment. Monthly reports and reviews of Denovo's performance against these SLAs will be conducted and provided on the Customer Care Portal for the Client's review. The following table also applies to Development & Test environments when the issue is related to a business critical activity as mutually agreed. Client or Denovo through mutual agreement will assign the severity level to the service ticket based on these criteria:

Issue/Outage	Priority	Response Time	Resolution Time	Escalation Threshold * to Manager	Escalation Threshold * to Director
Client experiences a complete loss of access to and use of the Production Environment. Work cannot reasonably continue, the operation is mission critical to the business and the situation is an emergency. A Severity Level 1 Incident results from an Infrastructure outage or a component (system process) level failure, and has one or more of the following characteristics: • Environment is down and/or inaccessible by Client's End Users • Data is corrupted, resulting in a complete halt to Client's business operations • Environment hangs indefinitely, causing indefinite delays for critical resources or response • Production payroll processing issues are severity 1. • Production environment access not available issues, outside of normal maintenance periods, are severity 1.	Severity 1	15 minutes	Denovo will work severity 1 issues 24x7 until the issue has been resolved or Client agrees the severity should be downgraded. For severity 1 issues Client must also agree to work 24x7 until the issue is either resolved or downgraded otherwise the issue will be worked during the Client's coverage hours.	1 hour	2 hour
Client experiences a severe loss of access to and use of the Production Environment. No mutually acceptable workaround or alternative is available; however, business operations in the Production Environment can continue to be conducted in a restricted fashion.	Severity 2	1 hour	Severity 2 tickets will be worked during Client's coverage hours until the ticket is resolved.	24 business hour	36 business hours

Issue/Outage	Priority	Response Time	Resolution Time	Escalation Threshold * to Manager	Escalation Threshold * to Director
Client experiences a minor loss of access to and use of the Production Environment. The impact is an inconvenience, which may require a workaround to restore functionality.	Severity 3	2 hours	Severity 3 tickets will be worked during Client's coverage hours until the ticket is resolved.	48 business hours	54 business hours

* Escalation Threshold: Open/unresolved issues are escalated to the next level manager once this threshold has been reached.

Support Tiers

The following details and describes Support Tier levels:

Support Tier	Description
Tier 1 Support	All support incidents begin in Tier 1, where the initial trouble ticket is created. The issue is identified and clearly documented, and basic hardware/software troubleshooting is initiated.
Tier 2 Support	All support incidents that cannot be resolved with Tier 1 Support are escalated to Tier 2, where more complex support on hardware/software issues can be provided by more experienced Engineers.
Tier 3 Support	Support Incidents that cannot be resolved by Tier 2 Support are escalated to Tier 3, where support is provided by Denovo's most experienced, senior Engineers who have the ability to collaborate with 3rd Party (Vendor) Support Engineers to resolve the most complex issues.

*** Reports and Statistics are available on the portal 24/7 ***

Service Level Agreements:

A. Service Desk Response

The Denovo service desk response time will be at or below the response times listed for severity 1 tickets 95% of the time in any given month. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

The Denovo service desk response time will be at or below the response times listed for severity 2 and 3 issues 90% of the time in any given month. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

Service Desk Response credits due Client will be applied on the following month's invoice.

For purposes of this SLA a "Failure to Respond" occurs when Denovo is in receipt of a service ticket and the Denovo Service Desk fails to respond to the Client within the timeframe defined in the SLA table. Denovo's receipt of a service ticket will be at step 1 in the Service Desk process defined in Section 2 of this Statement of Work. Denovo's response to the service ticket will be the initial contact the Service Desk has with the Client. The elapsed time between these two (2) events represents the response time.

B. Service Desk Escalation

The Denovo service desk escalation period will be at or below the escalation periods listed for severity 1 issues 95% of the time. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

The Denovo service desk escalation period will be at or below the escalation periods listed for severity 2 and 3 issues 90% of the time. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

Service Desk Escalation credits due Client will be applied on the following month's invoice.

For the purposes of this SLA a "Failure to Escalate" means when a ticket has been open longer then the defined threshold and the appropriate manager has not been notified.

C. Application Availability

JD Edwards EnterpriseOne web interface will be available 99.9% of the time in a given month, excluding the following:

- Scheduled maintenance
- Downtime caused by Client or third parties, (excluding Denovo and/or its affiliates or agents)
- User Lock out – either by automated or manual processes (i.e. password reset, password expiration, or user provisioning)

JD Edwards EnterpriseOne web interface being unavailable occurs when the Client is unable to login through the JD Edwards EnterpriseOne web interface.

- This will be measured through an automated login probe (script) that will poll the JD Edwards EnterpriseOne web interface.

Denovo will credit Client's account 5% of the monthly fee for this downtime. The Application Availability credit will be applied on the following month's invoice if Denovo determines the outage was an SLA event.

Application Availability credits due Client will be applied on the following month's invoice.

D. Network Uptime

Denovo's data center network shall be available 100% of the time in a given month, excluding scheduled maintenance. The data center network means the portion of the Denovo network extending from the outbound port on our edge device to the outbound port of the data center border router and includes Denovo managed switches, routers, cabling. A "Network Outage" occurs when network service is interrupted and exceeds the Network Availability SLA in any month provided that such outage was not solely caused by the failure of equipment provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents. If we do not achieve this SLA we will credit your account 5% of the monthly fee for each 30 minutes of network downtime, up to 100% of your monthly fee for the affected server. The Network Uptime credit will be applied on the following months invoice.

E. Datacenter Infrastructure

Denovo's data center HVAC and power will be functioning 100% of the time in a given month, excluding scheduled maintenance. Power includes UPSs, PDUs and cabling, but does not include the power supplies on servers supporting your services (see Hardware below). Datacenter Infrastructure "Outage" exists when a particular server is shut down for any reason other than scheduled maintenance. Provided such outage was not solely caused by the failure of equipment provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents will credit your account 5% of the monthly fee for each 30 minutes of infrastructure downtime, up to 100% of your monthly fee for the affected server(s). The Datacenter Infrastructure credit will be applied on the following months invoice.

F. Hardware

All server hardware components will be functioning 100% of the time and Denovo will replace any failed component at no cost. "Hardware" means the processor(s), RAM, hard disk(s), motherboard, NIC card and other related hardware included with the server. Hardware replacement will begin once we identify the cause of the problem. An "Outage" occurs when servers supporting Client are unavailable for console access via portal or the server is unresponsive to access requests or operations provided such outage was not caused by the failure of guest operating system or application operations provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents. We will credit your account 5% of the monthly fee per additional hour of downtime, up to 100% of your monthly fee for the affected server(s). The Hardware credit will be applied on the following months invoice.

SLA Compliance

If we fail to comply with the described SLAs more than six (6) times during any six (6) consecutive month periods, then Client shall have the right to terminate this Statement of Work pursuant to, and in accordance with the procedures set forth in, Section 9(b) of the Agreement. Compliance of SLA's will mean the following:

- For Service Level Agreement D, E and F compliance shall mean the designated percentage is not met in any given month.
- For Service Level Agreement A compliance shall mean the response time for severity level 1 tickets is not equal to or met 95% of the time and for severity level 2 and 3 issues is not equal to or met 90% of the time in any given month.
- For Service Level Agreement B compliance shall mean the escalation period for severity level 1 tickets is not equal to or met 95% of the time and for severity level 2 and 3 issues is not equal to or met 90% in any given month.

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- For Service Level Agreement C compliance shall mean the JD Edwards EnterpriseOne web interface will be available 99.9% of the time in a given month, except for permitted exclusions.

Calculations

The formula used to calculate the percentage of compliance for each SLA will be reviewed and mutually agreed upon by both parties in writing prior to JD Edwards EnterpriseOne going live.

Total Credits

If a single incident results in the failure of Provider to meet more than one Service Level in a single month, the Service Level Credit issued shall be only the largest Service Level Credit of the Service Level Credits associated with the missed Service Levels. Total credits in a month cannot exceed 100% of the charges for the service for a month.

ARTICLE 5 – STATEMENT OF WORK ACCEPTANCE

Subject to the provisions below, Denovo reserves the right to modify or discontinue Services and to introduce new services and features, upon Client's consent. Denovo may make available to Client all new services and features offered to all of our other Clients. Denovo may discontinue a Service at any time with the consent of Client whose consent shall not be unreasonably withheld, conditioned or delayed; provided, however, that if a Service will have a material and adverse impact on Denovo as mutually agreed, then Client shall consent to the discontinuance of said Service and also provided that Denovo shall not discontinue a Service such that its discontinuation shall materially and negatively impact Client, as mutually agreed. Discontinuance shall not affect Orders accepted prior to the date of discontinuance, but new Orders for a Service shall not be accepted after the date the Service is discontinued.

Denovo may, with the consent of Client whose consent shall not be unreasonably withheld, conditioned or delayed, modify a Service from time to time, for example to work with new third party products and services and to stay current with changing standards; provided that Denovo shall not modify a Service such that its modification shall materially and negatively impact Client, as mutually agreed. . Such modifications will affect both existing Services and new Orders.

Supplemental Orders

Client may purchase additional quantities of a Service ("Supplemental Order") by adding additional Components to the Existing SOW for those Services ("Existing Order") by submitting a Project Change Request (PCR) for those additional services. The Service Term of the Supplemental Order will be coterminous with the Service Term of the Existing Order and the Supplemental Order will be subject to the same terms and conditions as the Existing Order. Unless mutually agreed upon by both parties a supplemental order may not affect, modify or supersede the terms of this Agreement or any Exhibit to this Agreement.

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EXHIBIT 1 SCHEDULE B

STATEMENT OF WORK 002 (JD EDWARDS HR/PAYROLL UPGRADE PROJECT PROFESSIONAL SERVICES)

This STATEMENT OF WORK (the "Statement of Work") is entered into in connection with and pursuant to the provisions of the Professional Services Agreement (the "Agreement") between Denovo Ventures, LLC doing business as Denovo ("Denovo") and **Cook County, Illinois** ("Client"). Capitalized terms shall have the respective meanings assigned to such terms in the Agreement unless otherwise defined herein.

Pursuant to Article 3a of the Agreement, Denovo and Client desire to enter this Statement of Work for the performance by Denovo of certain professional consulting services, which are described herein. Such services shall be provided by Denovo pursuant to the terms and conditions set forth herein and the Agreement.

Effective Date: **4/22/2013**

Delivery Period: **4/22/2013** through **4/30/2016**

Program/Project Scope

Professional Services to complete the project to upgrade Client's JD Edwards World A73 Instance (Payroll, Human Resources, Benefits and Position Control) to JD Edwards EnterpriseOne in the Denovo Cloud will be provided as described in this Statement of Work.

Services and Deliverables

Denovo will provide implementation services to upgrade Client's JD Edwards World A73 instance (Payroll and Human Resources, Benefits and Position Control) to JD Edwards EnterpriseOne in the Denovo Cloud. Denovo will migrate Client's World A73 data tables to JD Edwards EnterpriseOne, and configure JD Edwards EnterpriseOne Payroll, Human Resources, and Employee/Manager Self-Services functionality to meet the current Client World A73 configuration. The project to upgrade to JD Edwards EnterpriseOne 9.1 in Denovo's Cloud will be completed using the Services and Deliverables described in the following sections:

1) Software to be Migrated/Implemented
2) Application and Project Management Services
3) Technical Services
4) Data Conversion/Migration
5) Additional Support Services
6) Business Process Improvements - New Functionality
7) Business Process Improvement - Pain Points
8) Development - Interfaces
9) Development – Modifications and Custom Objects
10) Development - Custom Reports, Forms and Dashboards
11) Training JD Edwards EnterpriseOne
12) Onsite Post Go-Live Production Support
13) Project Staffing and Responsibilities
14) Project Milestones and Deliverables
15) Support of Legacy JDE Systems
16) Supplemental Orders

1. Software to be Migrated/Implemented

The software to be implemented as part of this Statement of Work is comprised of:

- Oracle Technology Foundation for JD Edwards EnterpriseOne 9.1 (includes BI Publisher)
- JD Edwards EnterpriseOne 9.1 System Foundation
- JD Edwards EnterpriseOne 9.1 Time and Labor
- JD Edwards EnterpriseOne 9.1 US Payroll
- JD Edwards EnterpriseOne 9.1 Human Resources Management
- JD Edwards EnterpriseOne 9.1 Human Resources Self-Services (Employee and Manager)
- JD Edwards EnterpriseOne 9.1 Financial Management (minimal for Organizational components, Journal Entries, and inquiry)
- JD Edwards EnterpriseOne 9.1 One View Reporting Foundation
- JD Edwards EnterpriseOne 9.1 One View for Payroll

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Services and Deliverables

- JD Edwards EnterpriseOne 9.1 One View for Human Resources
- JD Edwards EnterpriseOne 9.1 One View for Financials
- Oracle User Productivity Kit Professional (UPK)
- Oracle User Productivity Kit Developer
- Vertex Sales Tax Q Series

2. Application and Project Management Services

Denovo will provide the following Application and Project Management services to support the JD Edwards HR/Payroll Upgrade project:

- Project Management of the JD Edwards HR/Payroll Upgrade project
- Migration of JD Edwards World production data to JD Edwards EnterpriseOne.
- Configuration of JD Edwards EnterpriseOne applications and batch jobs to provide "best practices" supported by JD Edwards EnterpriseOne.
- Identify gaps in the "best practices" model and functionality currently available in JD Edwards World that is required for Client's business practices.
- Configuration of an as yet unspecified number of business process improvements that will be identified as in scope during the JD Edwards HR/Payroll Upgrade project. These improvements will be addressed after the go-live date and production support ends. Two (2) forty (40) hour a week resources, an HCM consultant and a developer, will be made available for the period of 3 months.
- Configuration of a roles based security model, menus, in the form of E1 pages a production "landing page" with links to other Client sites, and a non-production landing page with links to all non-production environments.
- Testing of the configured JD Edwards EnterpriseOne applications, batch jobs, menus, and roles based security.
- Parallel testing of payroll cycles until the County and Denovo agree that two payroll cycles have completed without substantial errors. A payroll cycle has three separate check runs which will be included in the parallel testing; corporate, health and Forest Preserve.
- Training of the upgrade project team and Client's user community.
- Create production environment and refresh test and development environments.
- Project documentation will be prepared to support the upgrade project tasks.

3. Technical Services

During the Development Stage, the development team will be following the SDLC (Software Development Lifecycle) process defined during the Project Planning Stage. The high level procedures for the SDLC process:

- Using the JD Edwards OMW (Object Management Workbench), the developer creates an OMW project and adds the development object(s) to the OMW project in the development (DV) environment.
- When the coding is complete, the developer will unit test the object(s), based on a unit test script provided by the functional team.
- When the object(s) pass(es) the developer's unit test, the CNC administrator will promote the OMW project to the test (PY) environment.
- The application consultant will unit test the object(s).
- If the unit test fails, the OMW project will go through a rework cycle:
  - The test results will be forwarded to the developer.
  - The CNC administrator will demote the OMW project to DV.
  - The developer will rework the object(s).
  - The developer will retest the object(s).
  - Once the object(s) pass(es) the developer's retest then the CNC administrator will promote the OMW project to PY.
- When the application consultant's unit test passes, the OMW project process lead (Client owner) will perform a user acceptance test (UAT).
- If the UAT fails, then the OMW project will run through the rework cycle until the object(s) successfully complete(s) the UAT.
- The CNC Administrator will promote the OMW project to the production environment (PD).
- The project process lead will validate the developed object(s) is/are working as expected in the PD environment.

Denovo will provide the following development services to support the JD Edwards HR/Payroll Upgrade project:

- Development of JD Edwards EnterpriseOne objects to replace all identified existing interfaces, which currently run in the JD Edwards World production environment.

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Services and Deliverables

- Development of JD Edwards EnterpriseOne objects to replace all identified existing custom or modified JD Edwards World custom or modified programs and files; to the extent they will be relevant in JD Edwards EnterpriseOne.
- Development of JD Edwards EnterpriseOne objects to replace all identified form templates currently used in JD Edwards World.
- Development of JD Edwards EnterpriseOne objects for new interfaces to Client's current JD Edwards OneWorld B7332 production environment for the general ledger, address book, and the payroll journal entry.
- CNC (Configurable Network Computing) (aka JD Edwards System Administration) support to manage the SDLC (software development lifecycle) of JD Edwards EnterpriseOne objects through the various JD Edwards EnterpriseOne environments.

Count/Hours of Custom/Modified Objects

This schedule represents the number of objects to be developed and have had the complexity of the development assigned. The mix of objects between "simple", "medium" and "complex" may be altered by the mutual agreement of the Project Leadership team. It is further understood that for "existing" objects three (3) "simple" objects is equivalent to one (1) "medium" object and that two (2) "medium" objects plus one (1) "simple" object is equivalent to one (1) "complex" object. Because of the difference in the development effort between an existing object and a new object or the difference between the types of development tools used by different types of new object development, these changes will be mutually agreed upon by the Project Leadership team on an individual basis.

		Object Count						Estimated Hours			
Object Types	**Total**	**Simple**	**Medium**	**Complex**	**Abandon**		**Total**	**Simple**	**Medium**	**Complex**	**Abandon**
Existing Development											
RPG/COBOL Programs	118	56	38	5	19		1,964	448	912	300	304
CL Programs (CLP)	95	61			34		95	61			34
Files (PF)	31	26			5		250	208			42
Subtotal	**244**	**143**	**38**	**5**	**58**		**2,309**	**717**	**912**	**300**	**380**
New Development											
Interfaces to B7332	7		6	1			204		144	60	
Interfaces to Time Entry	1	1					8	8			
Pain Points	8	5	2	1			240	80	80	80	
Request to Hire	1		1				24		24		
Position Control Reports	5	2	3				88	16	72		
Pay Check & Direct Deposit Advice	2		2				48		48		
Unidentified Form Templates	3		3				72		72		
Unidentified Dashboards	5	2	3				88	16	72		
Request to Hire Workflow	1		1				24		24		
Unidentified Workflow	4		4				96		96		
Subtotal	**37**	**10**	**25**	**2**	**0**		**892**	**120**	**632**	**140**	**0**
GRAND TOTAL	**281**	**153**	**63**	**7**	**58**		**3,201**	**837**	**1,544**	**440**	**380**

4. Data Conversion/Migration

A snapshot of the database from Client's JD Edwards World will be obtained and available for installation in Denovo's Colorado data center. This activity will be coordinated to align with the completion of the installation of a temporary I-series box. Depending on bandwidth and database size, the copy may be transmitted electronically; otherwise it will be loaded onto media and Denovo shall deliver the copy, in encrypted format, to the Colorado data center. Upon the time such copy leaves the Client's facilities, Denovo shall bear sole responsibility for the security of such copy; further, Denovo shall bear full responsibility for Client's damages due to loss or damage of such copy during the aforementioned time. Denovo's responsibility and liability shall cease when Denovo returns such copy to the Client's Chief Information Officer. The temporary I-series is used to stage Client's JD Edwards World business data tables.

Although there is a direct migration path from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1, the migration path for the Client's JD Edwards World business data tables will be a multi-step process:

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- The technology team will move the data from Client's existing I-series to the Denovo I-series with the current OS400 installed.
- The business data tables will be migrated to a release level of JD Edwards OneWorld where direct migration path has been built by Oracle.
- The business data tables will be migrated to the JD Edwards EnterpriseOne business data tables where it will be copied into the DV, PY and TR environments. No business data tables are migrated into the Pristine and conversion environments.
- JD Edwards World A73 production business data tables are the only historical data source that is in scope for this project.

5. Additional Support Services

- Additional services to complete enhancement and optimization projects (as directed by Client)
- Additional services identified that are out of the scope of this Statement of Work will be mutually agreed upon and provided on a time and materials basis.

6. Business Process Improvements - New Functionality

As part of the business process improvement, new functionality will be introduced using standard JD Edwards EnterpriseOne functionality that previously was not available in the Client's JD Edwards World. This functionality is limited to:

- Global Leave Administration
- Employee/Manager Self-service
- BI Publisher
- Electronic Workflow
- OneView Reporting

Global Leave Administration

Configuration of Global Leave Administration will provide the following functionality as delivered standard in JD Edwards.

- View leave balances
- Request leave time
- Cancel or modify leave requests
- Submit FMLA requests and information

The functionality of these features will be configured to the existing DBA structure currently being utilized in Client's JD Edwards World.

Employee/Manager Self-service

Configuration of Employee/Manager Self-service will provide the following functionality as delivered standard in JD Edwards. Employee/Manager Self-service will be delivered using JD Edwards EnterpriseOne logical servers and not on a standalone portal server.

- Name and address changes
- Emergency contacts
- Dependents and Beneficiaries
- Paid Time-off
- Requests for verification of employment
- Review employee profile information
- Enter W-4 information
- Enter auto deposit information
- Pay Stub history; including printing the check stub

From the Manager's workbench:

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- Change employee status
- Assign delegates
- Setup information on new employees

The standard functionality of Employee/Manager Self-service approvals and workflow routing will be implemented. Specifically out of scope is online enrolment.

BI Publisher

BI Publisher provides an integrated form template tool that replaces other form products like Optio. Training is being provided to Cook County staff on how to use this new product.

Electronic Workflow

JD Edwards EnterpriseOne has an integrated workflow engine to support custom workflow requirements. Additionally, JD Edwards EnterpriseOne comes delivered with pre-configure workflow in Human Resources. Training is being provided to Client staff on how to use this new product.

OneView Reporting

OneView reporting is designed to provide the end user with an ad hoc reporting and dashboard solution. JD Edwards EnterpriseOne is delivery with pre-configure HR and Payroll OVR reports. The process users will be trained on how to uses this new product.

7. Business Process Improvement - Pain Points

During Denovo's discovery sessions with key Client process owners, several key pain points with Client's JD Edwards World system were identified. Several of these issues are addressed with JD Edwards EnterpriseOne. The following table summarizes the issues identified, which are resolved either through configuration or customization and are included in the scope of the project, under the fixed cost of this Agreement and not on a time and materials basis:

Description of Upgrade Items	Scope of Effort	Development Complexity
Pain Points that will be solved using standard JD Edwards EnterpriseOne		
Termination Tracking – Enhanced tracking of termination reasons, using the Pay Status to identify the reason for the termination. Solution uses a single character alpha field.	This will be resolved by configuring the pay status field to have different termination codes to track termination reasons	None
Leave of Absence Tracking – Enhanced tracking of leave of absence reasons, using the Pay Status to identify the reason for the leave of absence. Solution uses a single character alpha field.	This will be resolved by configuring the pay status field to have different leave of absence codes to track leave of absence reasons	None
Ad hoc Reporting Tools – 3rd party reporting tools are available for both products. Several methods for ad hoc reporting included in JD Edwards EnterpriseOne.	This will be resolved by training the users on JD Edwards EnterpriseOne OneView reporting.	None
Leave of Absence Workflow – Workflow is available in JD Edwards EnterpriseOne along with a Global Leave Administration product.	This will be configured using standard JD Edwards EnterpriseOne objects and functionality available in the Global Leave Administration functionality.	None
Training – User training is desirable.	This will be handled during the Delivery stage of the Upgrade project.	None

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Security Setup – Allow users access only to employees that they are authorized to change. This functionality will be reviewed during the configuration lab.	To be delivered using standard roles security functionality.	None
Employee Master Lock out – Cannot change the Employee Master record during the paycycle. In EnterpriseOne, the ability to make changes to the employee master during paycycle processing is standard.	This will be delivered using standard JD Edwards Paycycle functionality.	None
Effective Dates on DBA – This issue will be reviewed during the Configuration Lab, but, no customizations will be performed to resolve the issue.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client policy and procedures to address this issue.	None
Assignment Tracking – Problems with Assignments being added to the history table. Dependent on the steps taken to record the assignment.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client's users understanding. This issue will be resolved using standard JD Edwards functionality.	None
Leave of Absence – Global Leave Administration is available in EnterpriseOne and will replace the current custom solutions.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
W2 Processing – W2 processing is handled on the mainframe. This process will be transferred to JDE during the configuration lab.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
Employee Self-service – Services will be configured and rolled out as requirements dictate.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
Pain Points that will be solved through development activity These pain points represent new development		
Check Printing – Check file needs to be edited prior to printing. In EnterpriseOne BI Publisher comes standard with the product and Forms development is included. Alternatives for Optio (including using the embedded BI Publisher) would need to be research to resolve current printing issues on the AS400.	The paycheck and the direct deposit advice will be handled using BI Publisher and will be distributed to the employees electronically and/or hard copy.	Simple
Time Exception - Time exception reporting that is system monitored.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided as the solution.	Simple
Restrict Pay Type Entry – When employee is on Worker's Compensation do not allow the employee to enter time using a pay type that will pay the employee.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided.	Simple

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Activity Records -These records are not updated in a consistent manner. Most often the Leave of Absence (LOA) causes the most problems. The activity record should not expand beyond the dates for a fiscal year. Most often this occurs when an LOA of an employee spans more than one fiscal year. The record should have an ending date for the fiscal year, then a new record for the beginning of the next fiscal year. Activity record should only contain the changes to an employee during the fiscal year. From Dates and Through Dates should not overlap fiscal years.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client understanding. Development will only be provided if the solution can be handled using a simple batch program to split records in the table.	Simple
Position IDs – These are manually created and are not truly unique. These position ids are manually monitored in hopes of not creating duplicates. Currently, the unique id is maintained within the business unit, but not the whole organization. This has led to numerous duplicates in JDE for the whole organization.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided.	Simple
Retro Pay – Currently this is a customized solution that is very manual and run on the mainframe. Improving the customization to better calculate the retro pay and including workflow to the process would improve the retro-pay a process.	Develop GAP analysis between the current custom Client solution and current JD Edwards EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution. Develop solution. The functional requirements are based on the technical specifications provided by Client.	Medium
Salary Schedules for the grade and step tables – Currently the table is made up of grade, step, union code, effective date and amount. The table should be made up of contract, grade, step, union, effective date and amount. The position should be attached to a contract which would govern the pay of an employee hired into the position. This would make the projection of salary easier. The contract could be updated and the salary for the position would be updated immediately.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution.	Medium
Union Code Architecture – would like the Union code redesigned to better fit the way Unions impact the employee setup. Functionality will be reviewed during the configuration, but, this functionality is most likely not available.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution.	Complex

In order to provide for enhancements not yet identified in the scope of services, Denovo has included a fixed amount of hours for an HCM Application consultant and a developer to perform these services. The services are anticipated to be conducted after the go-live and have been currently slotted between January and March of 2014. A list of potential enhancements will be developed throughout the HR/Payroll Upgrade project. This list will be evaluated and prioritized by the project team. Finally the project leadership team will determine which enhancements will be implemented based on effort, importance to Client and available funding. The current funding amounts are outlined in the Schedule of Payments section of this document.

8. Development - Interfaces

The following is a list of identified interfaces between JDE and third party legacy systems. Denovo agrees to replicate and with the mutual consent of Client to include minor enhancements to the interfaces; to eliminate user pain points. The following interfaces have been included in this scope of work:

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New Interfaces

These interfaces represent new development.

Description	Type	Direction (Note)	Quantity	Complexity
Payroll Journal Entries to G/L and/or Jobs	Batch	Denovo -> County	1	Medium
Company, Business Unit, Account Master Revisions	Batch	County -> Denovo	3	Medium
Address Book Revisions	Batch	Denovo --> County	1	Complex
G/L Balances	Batch	County -> Denovo	2	Medium
Time Card Interface (replaces Access DB interface)	Batch	County -> Denovo	1	Simple

NOTE: These are new interfaces between B7332 and EnterpriseOne 9.1. The following tables have been identified in the list of interfaces; general ledger (F0911), balances (F0902), company (F0010), business units (F0006), account master (F0901) address book tables (F0101, F0111, F0115, F0116, F03012, F0401) and GL z-batch (F0911z1). Any additional interfaces required for integration of the GL HR, Payroll, and Address Book to the B7332 that are identified during course of this project will be considered in scope.

Existing Interfaces

In scope for this project is the development of existing JD Edwards World interfaces to JD Edwards EnterpriseOne. The development work includes the rework of the current programs used to compile and package the data for transmission. To the extent that the vendor is not using a secured site to receive the data and the vendor approves, Denovo will encrypt the data. Denovo will also develop scripts to automate the transmission of the data to the vendor. These interfaces represent existing development which will be retrofitted from World. They are listed here to identify them

Description	Type	Direction (Note)
Import Wageworks Transit Orders into JDE (FTP flat file from Wageworks)	Batch	Wageworks -> Denovo
Import Wageworks Medical Flex Spending Election (open enrollment on provider's site)	Batch	Denovo -> Wageworks
Import Wageworks Dependent Flex Spending Election (open enrollment on provider's site)	Batch	Denovo -> Wageworks
Open enrollment Plan Info (File from County Web Front-End)	Batch	County -> Denovo
Timecards from External Swipe Systems	Batch	Time -> Denovo
Position Master Records for New Year (County Budget System)	Batch	County -> Denovo
Salary Schedules (from HR)	Batch	County - > Denovo
Pension Deductions (to County Pension System)	Batch	Denovo -> Pension
Accrual Balances (to Swipe card system)	Batch	Denovo -> Swipe
Union Dues Deductions	Batch	Denovo -> Union
Parking Deductions	Batch	Denovo -> Parking
Bank Funding Files	Batch	Denovo -> Bank
Payroll Positive Pay Files	Batch	Denovo -> Bank
Life Insurance Deductions	Batch	Denovo -> Providers
Child Support	Batch	Denovo -> Support
Garnishments such as Bankruptcy, Tax Levies, Student Loans, etc.	Batch	Denovo-> Systems
Deferred Comp	Batch	Denovo -> Comp
United Way	Batch	Denovo -> UW
Transit Deductions	Batch	Denovo -> Transit
Health Insurance Deductions Not Taken	Batch	Denovo -> Access DB
Active Employee Listing for Health Insurance Carriers	Batch	Denovo -> Carriers

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Deferred Compensation Audit	Batch	Denovo -> Audit (LLC)
Quarterly Garnishment and Fees Reporting	Batch	Denovo -> Comptroller
Bank Clearing Reconciliation Files	Batch	Denovo -> Auditors & Comptroller

NOTE:

"Denovo" refers to the EnterpriseOne 9.1 system in the Denovo Cloud, while "County' indicates Client's current JD Edwards environment.

9. Development – Workflow and Modifications/Custom Objects

A list of identified requirements for modifications and custom applications is below. Denovo agrees to replicate and with the mutual consent of Client to include minor enhancements to the modifications; to eliminate user pain points. In addition to the identified customization listing we have included the services for the following quantity and complexity for development of unidentified modifications and custom applications: Before the development of any unidentified interfaces, customizations or reports approval will be obtained from client.

New custom JD Edwards EnterpriseOne objects to replace non-JD Edwards World applications or reports:

Description	Complexity	Quantity
Request to Hire Application	Medium	1
Request to Hire Workflow	Medium	1
Unidentified Custom/Modified Workflow	Medium	4

Existing JD Edwards World custom or modified applications or reports:

A listing of the current custom or modified objects is provided under "Custom Object Listing" at the end of this Statement of Work.

10. Development – Reports, Forms and Dashboards

Denovo will develop the following type and quantity of currently unidentified Reports, Forms and Dashboards.

New Reports Forms, and Dashboards

Description	Tool Used	Quantity	Complexity
Custom Position Control Reports	ERW	5	Medium
Pay Check and Stub	BI Publisher	1	Medium
Direct Deposit Advice	BI Publisher	1	Medium
Unidentified Forms	BI Publisher	3	Medium
Custom Dashboards	One View Reporting	5	Medium

11. Training JD Edwards EnterpriseOne

Project Team Training – During the project planning and execution stage, Denovo will conduct fourteen (14) training classes collectively referred to as project team training. Denovo application consultants will provide training on navigation and features of JD Edwards EnterpriseOne, as well as the new capabilities of JD Edwards EnterpriseOne HCM suite. Denovo CNC consultants will provide training on system administration, managing security, user provisioning, job scheduling, system monitoring and OMW. Denovo Development consultants will provide training on JD Edwards ERW, to train attendee on developing custom applications and reports using the ERW tool. Two (2) additional courses will be provided to train on BI Publisher and Workflow modeler.

Core User Training – Denovo will conduct thirteen (13) training classes collectively referred to as core user training for the HR/Payroll process community, assisted by Client application leads. One course, the 21 CFR Title 11 course will be provided in a hands-on learn as you go format to train the core users on how to setup a table for audit.

End User Training – Denovo will assist in ten (10) training classes collectively referred to as end user training for the HR/Payroll user

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community, led by Client application leads.

Training Materials – During the course of the configuration stage Denovo application consultants, with assistance from Client project team members, will prepare "training materials" to be used in conjunction with the training courses that will be taught during the JD Edwards HR/Payroll Upgrade project. Denovo will lead and participate in the development of training materials. Client will participate in the development of the training materials. Training materials will be developed using Oracle Universal Productive Kit (UPK) and other Microsoft products such as Word. These training materials will be written to reflect Client business processes and will include documentation of system administration tasks performed by Client. To support Client's helpdesk, Denovo agrees to assist Client in the development of ten (10) "tier one" JD Edwards EnterpriseOne scripts.

Training courses will consist of:

Course Title	Project Team	Core User	End User	Course Synopsis
JD Edwards Basics	2	2	2	A general overview of common functionality the user needs to understand to navigate and use JD Edwards EnterpriseOne.
Employee Master Maintenance	1	1	2	A detailed review of the various reports and applications the user needs to use to complete tasks that add, maintain, and terminate employee records in JD Edwards EnterpriseOne. Includes updating records necessary to record information to accurate pay the employee and reviewing the setup of the HCM module.
Benefits	1	1	0	A detail review of the various reports and applications the user needs to use to complete tasks to enroll, maintain, retire employees from the various benefit plans, and setup the benefits module.
Payroll	1	1	0	A detail review of the various reports and applications the user utilizes to update the employee record with payroll related information, run paycycles, comply with governmental requirements, and setup of the payroll module.
Time Entry	1	2	2	A detail review of reports and applications the user utilizes to enter employee time records and system setup of the time and labor module.
Employee/Manager Self-service	1	2	2	A detail review of reports and applications an employee or manager can use to view and maintain employee information and setup of the ESS module.
Global Leave Management	1	2	2	A detail review of reports and applications an employee or manager can use to view "Paid Time-off" balances and request leave of absence.
Position Control	1	1	0	A detail review of reports and applications an employee or manager can use to add and maintain budget balances by position and setup of the Position Control module.
System Admin	1	0	0	A detailed review of the tools and procedures used by Client's CNC resources.
Development Training	1	0	0	Fundamentals of Enterprise Report Writer (ERW.)
BI Publisher Training	1	0	0	Fundamentals of BI Publisher.
Workflow Modeler	1	0	0	Fundamentals of Workflow Modeler.
Customer Care Portal	1	0	0	Webex training of the Customer Care Portal (Service Desk) delivered by the Denovo infrastructure team.
21 CFR Title 11 Training		1		Fundamentals of auditing tables in JD Edwards, including setting up 10 fields in one table as an example.

12. Onsite Post Go-Live Production Support

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Seven (7) weeks of post go-live "onsite" production support by Denovo consultants have been included in this SOW and will be scheduled, prior to go live, to cover critical need times as mutually agreed. This shall include the key functional consultants and our project manager (as required.) In addition, the assigned CNC/Technical Lead and development consultants will be available to provide remote support during this period.

13. Project Staffing and Responsibilities

Denovo proposes to provide the following project resources and level of support, which we feel is necessary to complete this Statement of Work within the timeline prescribed herein:

JD Edwards HR/Payroll Upgrade Project

ROLE	TITLE	HOURS
DENOVO		
DELIVERY DIRECTOR	DELIVERY DIRECTOR	240
PROJECT MANAGER	PROJECT MANAGER	1360
ENTERPRISEONE ARCHITECT	ENTERPRISEONE ARCHITECT	920
APPLICATION PROFESSIONAL	HCM PROFESIONAL I	1420
APPLICATION PROFESSIONAL	HCM PROFESIONAL II	960
APPLICATION PROFESSIONAL	PR PROFESSIONAL I	1420
APPLICATION PROFESSIONAL	PR PROFESSIONAL II	960
DEVELOPMENT LEAD	DEVELOPMENT MANAGER	720
DEVELOPER	DEVELOPER I	640
DEVELOPER	DEVELOPER II	640
DEVELOPER	DEVELOPER III	640
DEVELOPER	DEVELOPER IV	640
DEVELOPER	DEVELOPER V	640
CNC PROFESSIONAL	CNC PROFESSIONAL	800
CHANGE MANAGER	CHANGE MANAGER	680
APPLICATION PROFESSIONAL	ENTERPRISEONE TRAINER	400
APPLICATION PROFESSIONAL	HCM PAYROLL PROFESSIONAL Phase 2	520
DEVELOPER	DEVELOPER IV - Phase 2	520
ERP CENTER OF EXCELLENCE		
IT PROCESS LEAD	FUNCTIONAL LEAD	740
DEVELOPMENT LEAD	TECHNICAL LEAD	740
PROJECT MANAGER	PROJECT MANAGER I	740
PROJECT MANAGER	PROJECT MANAGER II	740
CHANGE MANAGER	CHANGE MANAGER	740
COOK COUNTY		
OVERSIGHT COMMITTEE	OVERSIGHT COMMITTEE	
PROCESS TEAM LEAD	HCM LEAD - HEALTH PAYCYCLE	345
PROCESS TEAM LEAD	PAYROLL LEAD - HEALTH PAYCYCLE	345
PROCESS TEAM LEAD	HCM LEAD - CORPORATE PAYCYCLE	345

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PROCESS TEAM LEAD	POSITION CONTROL LEAD	339
PROCESS TEAM LEAD	PAYROLL LEAD - CORPORATE PAYCYCLE	345
PROCESS TEAM LEAD	TIME ENTRY LEAD 1 - CORPORATE PAYCYCLE	333
PROCESS TEAM LEAD	TIME ENTRY LEAD 2 - CORPORATE PAYCYCLE	333
PROCESS TEAM LEAD	BENEFITS LEAD	331
PROCESS TEAM MEMBER	FIELD HCM/ TIME ENTRY SME - HEALTH PAYCYCLE	88
PROCESS TEAM MEMBER	FIELD HCM/ TIME ENTRY SME - CORPORATE PAYCYCLE	88
PROCESS TEAM LEAD	HCM/PR/TIME ENTRY - FOREST PRESERVE PAYCYCLE	351

Responsibility Matrix:
The participation of key Client process owners and process users is critical to the success of the project. The following table outlines responsibilities of Denovo and Client in the execution of the project plan:

Tasks	Responsibility
Project Management Segment – Project Initiation Stage	
Project Team Introduction Workshop – Introductory meeting for the project team to get together for the first time. Roles and Responsibilities will be discussed along with an outline of project tasks that will occur between the Introduction workshop and the Kick-off meeting.	Denovo is responsible for completing these tasks. Completion of this task requires the Client's reasonable assistance.
Project Charter/Stakeholder Management – Review the current Project Charter and Stakeholder Management plan. When these documents do not already exist they will be prepared.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Project Planning & Execution Stage	
Develop Project Management Plan (PMP) – A PMP handbook will be created which will outline project policies. I.e. Change Management Policy, Software Development Lifecycle Policy, Milestone Tracking Plan and more.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Detailed Project Plan – Project scope will be finalized and the tasks (WBS) will be defined. The activities will be assigned, the project calendar will be created, resources identified, etc.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Milestone Tracking Plan – The initial project tracking documents and procedures will be created for monitoring progress on the project and requesting payment for completed milestones.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Risk Management Policy – The Risk Management Plan is defined and the tracking mechanism is settled on.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Communication Plan – The Communication Plan is complete along with the Communication Matrix. Project templates are settled on.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop SharePoint Site – A SharePoint site is created either on Denovo's or Client's site. Training materials are prepared and the project team is given access.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Kick-off Project – Once the project planning is complete, a Kick-off Meeting PowerPoint is prepared and the project is officially started.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

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Project Management Segment – Monitor & Control Stage	
PM Recurring Activities – Standard project monitoring activities occur, need to report progress on the project, costs, issues, risk, etc.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Quality Stage	
Project Preparedness Checkpoint – Just prior to the Kick-off Meeting a Project Preparedness checkpoint will be conducted to validate the project is ready to start.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Progress Check Point – Periodic Check Points occur during the project to ensure the project is moving along as planned.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Close Stage	
Closing Activities – Standard closing activities will occur at the end of each stage and after the project has gone live. Items such as, documentation, appropriate sign-offs and lessons learned activity will be conducted.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Definition Stage	
Discovery Workshops – Review current state with County staff and prepare Requirements Traceability Matrix	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Current State Requirements Lab – Review Requirements Traceability Matrix. Prepare RICE List and Production Validation Check List.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Requirements GAP Sessions – Review Current State Analysis packet, which include Requirements Traceability Matrix, RICE List and Production Validation Check List. Document identified gaps in the requirements and present to the Client project team.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
System Design Requirements Sessions – Review Current State Analysis packet and Gap Analysis. Conduct a Future State Design lab and prepare the System Design Requirements materials. Conduct a System Design Requirements session to Client project team.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Configuration Stage	
Configuration Lab – Review System Design Requirements and conduct a Configuration lab. New functionality will include employee self-service, online enrollment, and global leave administration. Additionally, define menu and security system requirements. Prepare Configuration Documentation.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test Scripts – Review Configuration Documentation, identify all objects to be tested and prepare unit test scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test – Conduct Unit testing and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test Rework Lab – Rework configuration based on results of the Configuration Test. Prepare Integration/Stress test scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Integrated/stress Test – Conduct Integrated/stress testing and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Integrated/stress Test Rework Lab – Rework configuration based on results of the Integrated/stress test results. Update project documentation and prepare Business Process Workshop test scripts	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

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Services and Deliverables	
Business Process Workshop – Conduct Business Process Workshop and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Delivery Stage	
Production Test Review – Review all the project materials and evaluate how prepared the team is to begin developing the PD environment. Create cut-over scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Production Installation Plan – Test the cut-over script and the creation of the PD Environment.	Denovo will complete this task.
Production Test Validation – Review the results of the cut-over testing.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
System Readiness – Review the results of the Production Test Validation and make a go/no-go decision.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
PD Business Data Restore – Refresh the PD database with the current production data.	Denovo will complete this task.
PD Environment Validation – Execute the Production Validation Checklists	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Post Go-live support	Denovo and County Project Team Members.
Technology Segment – Definition Stage	
Infrastructure Design Lab (Hosted) – A lab that documents the future state of the IT hardware.	Denovo will complete this task.
IT Policies Design Lab (Hosted) – A lab that documents IT policies under a hosted environment. This includes security and menu structure.	Denovo will complete this task.
Technical Requirements Workshops – Workshop to review the functional specs for development work, i.e. Applications, Reports, Integrations, and Workflows.	Denovo will complete this task.
Technology Segment – Installation Stage	
Pre-installation Activities – Hardware acquisition, setup, configuration and tuning; setup at the Operating System, database, virtual machine level.	Denovo will complete this task.
Build Development and Prototype Environments – Technical - Install E1 v9.1 and related server roles (e.g. OAS); build environments; convert production data from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1.	Denovo will complete this task.
Post PY Installation Activities – On-going support of project CNC activities, including: installation of ESU's, building packages, promoting of objects, etc.	Denovo will complete this task.
Technology Segment – Development Stage	
Development Labs – Retrofit Custom Application, Reports, Interfaces, Forms and Workflows.	Denovo will complete this task.
Learning Segment	
Pre-training Activity – Prepare training environment, training materials, and schedule training sessions.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

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Services and Deliverables	
Project Team Training – Conduct training session of Client's project team members. Training includes E1 navigation, employee maintenance, benefits administration, employee self-service, global leave management, payroll processing, time entry and HCM setup. Also included is training on system administration in a hosted environment.	Denovo will complete this task.
User Training – User training will be delivered by Denovo. Client project process leads will sit through the training sessions to assist the trainer and add Client process knowledge. Training includes E1 navigation, employee maintenance, benefits administration, employee self-service, online enrollment, global leave management, payroll processing, and time entry.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
End User Training – End User training will be delivered by Client project process leads. Denovo will sit through the first couple of training sessions to evaluate the effectiveness of the training the session. Training includes E1 navigation, employee self-service, global leave management, and time entry.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

14. Project Milestones and Deliverables

Following is a listing of the Milestones and Deliverables associated with this Statement of Work:

Ref #	Milestone	Tasks	Deliverables
1	Project Initiation	Project Team Introduction Workshop	Introduction Workshop Complete
1	Project Initiation	Project Charter/Stakeholder Management	Approved Project Charter
1	Project Initiation	Project Charter/Stakeholder Management	Stakeholder Register
1	Project Initiation	Project Charter/Stakeholder Management	Approved Stakeholder Management Strategy
2	Project Governance	Develop Project Management Plan (PMP)	Approved Project Management Plan
2	Project Governance	Develop Project Plan	Finalized Project Scope in PMP
2	Project Governance	Develop Project Plan	Detailed Project Plan
2	Project Governance	Develop Project Plan	Project Resource Assignments
2	Project Governance	Develop Project Plan	Project Duration Overview
2	Project Governance	Develop Project Plan	Detailed Project Calendar
2	Project Governance	Develop Milestone Tracking Plan	Milestone Tracking Schedule
2	Project Governance	Develop Risk Management Policy	Approved Risk Assessment Plan
2	Project Governance	Develop Communication Plan	Approved Communications Plan
2	Project Governance	Develop SharePoint Site	Project's SharePoint Site Developed
2	Project Governance	Conduct Kick-off Meeting	Kick-off Meeting Completed
3	Discovery Workshops	Discovery Workshops	Requirements Traceability Matrix
3	Discovery Workshops	Process Review	Draft Future State Process Diagrams
4	Project Team Training	Pre-training Activity	Training Agenda, Schedule, Attendee listing
4	Project Team Training	Pre-training Activity	Course Materials
4	Project Team Training	Project Team Training	Training Complete
5	Current State Review	Current State Requirements Lab	Draft Go-Live Validation Check List

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Services and Deliverables			
5	Current State Review	Current State Requirements Lab	Initial Reporting , Interfaces, Conversions and Enhancements (RICE) List
5	Current State Review	Develop System Documentation	Draft System design requirements
6	Future State Defined	Requirements Gap Sessions	Approved Requirements Gap Documentation
6	Future State Defined	System Design Requirements Sessions	Approved System Design Requirements
7	E1 Configuration	Configuration Labs	Draft Menu/Security Requirements
7	E1 Configuration	Configuration Labs	Updated System Design Requirements
7	E1 Configuration	Configuration Labs	PY Environment ready for testing
8	Test #1 - Unit Testing	Develop Configuration Test Scripts	Initial Test Scripts version 1
8	Test #1 - Unit Testing	Test #1 - Configuration Testing	Executed Configuration Test Scripts Results
9	Test # 1 -Unit Testing Rework	Test #1 - Configuration Testing Rework Lab	Updated Test Scripts version 2
10	Test #2 Parallel Test A	Test #2 - Parallel Testing A	Executed Parallel Test A Test results
11	Test #2 Parallel Test A - Rework	Test #2 - Parallel Testing A Rework Lab	Updated Test Scripts Version 3
12	Test #3 Parallel Test B	Test #3 - Parallel Testing B	Executed Stress Test Results
13	Test #3 Parallel Test B - Rework	Test #3 - Parallel Testing B Rework Lab	Updated Test Scripts Version 4
14	Test #4 User Acceptance Testing	Test #4 - Conduct Business Process Workshop	Executed BPW Test Results
14	Test #4 User Acceptance Testing	Test #4 - Conduct Business Process Workshop	Approved G0-Live Validation Check List
15	User Training	User Training	User Training Complete
16	Go-Live	Production Test Review	Cut-over Scripts
16	Go-Live	Production Installation Plan	Production Environment Available
16	Go-Live	Production Test Validation	Review/Evaluate Testing Results
16	Go-Live	System Readiness	Document Go/No Go Decision
16	Go-Live	PD Business Data Restore	EnterpriseOne Live
17	Post Go-Live Support	Post Go Live Support and Issue Resolution	Post Go-Live Issues List
	Development Cycle		
18	Development Docs	Create Development docs	Functional & Technical Specification Documents
19	Development Complete	Development Coding & Unit Testing	Developer Test Results (Passing)
20	Development - UAT	Functional Consultant Testing	Functional Test Results (Passing)
20	Development - UAT	Process Lead Testing	User Acceptance Test Results (Passing)
21	Enhancement Docs	Create Development docs	Configuration/Functional/Technical Specifications
22	Enhancement Completed	Configuration and/or Coding & Unit Testing	Unit Test Results (Passing)
23	Enhancement UAT	Functional Consultant Testing	Functional Test Results (Passing)
23	Enhancement UAT	Process Lead Testing	User Acceptance Test Results (Passing)

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Services and Deliverables

Client will ensure that requested participation of project and process lead resources occurs on a timely basis and at the level requested. Client and Denovo mutually agree that the review and approval of project deliverables and other key decisions, including process change, will be completed within five (5) business day. Delays may result in schedule delays and cost escalation. If response is not received from Client by the due date regarding review and approval of deliverables that deliverable will be assumed to be approved.

15. Support of Legacy JDE Systems

As directed by Client, Denovo will provide functional and technical support of Client's current JD Edwards World A73, JD Edwards OneWorld B7332 and JD Edwards OneWorld B7333 production environments on a time and materials basis.

At Client's request, Denovo will provide and develop a contingency plan that will enable Client to continue to process payroll on its legacy JDE World A73 system if the go-live extends beyond the first payroll run in January 2014. Client will provide Denovo ample notice of their intention to implement the contingency plan for a January delivery date. Denovo will be responsible to update/maintain changes to the payroll tax requirements within Client's JDE World solution until such time that the cutover can be accomplished.

The Contingency Plan approach is based on the best practices deployed in foreign countries to support withholding taxes. This approach sets up DBAs to withhold employee taxes and to accrue employer taxes. A conversion of the payroll tax history into the appropriate JD Edwards EnterpriseOne tables is in scope for this conversion plan. Denovo will develop, implement and support the contingency plan on a time and material basis.

16. Supplemental Orders

Client may purchase additional quantities of a Service ("Supplemental Order") by adding additional Services to the Existing Statement of Work for those Services ("Existing Order") by submitting a Project Change Request (PCR) for those additional services. The Supplemental Order will be subject to the same terms and conditions as the Existing Order.

Schedule

The project will commence on Monday, April 22, 2013 or any other date after the effective date of the agreement as mutually agreed upon by the parties. The initial go-live date on Denovo's cloud will be defined through a detailed plan that will be jointly created between Denovo and Client and upon acceptance by both parties will be considered an integral part of this SOW. Please see the project timeline below.

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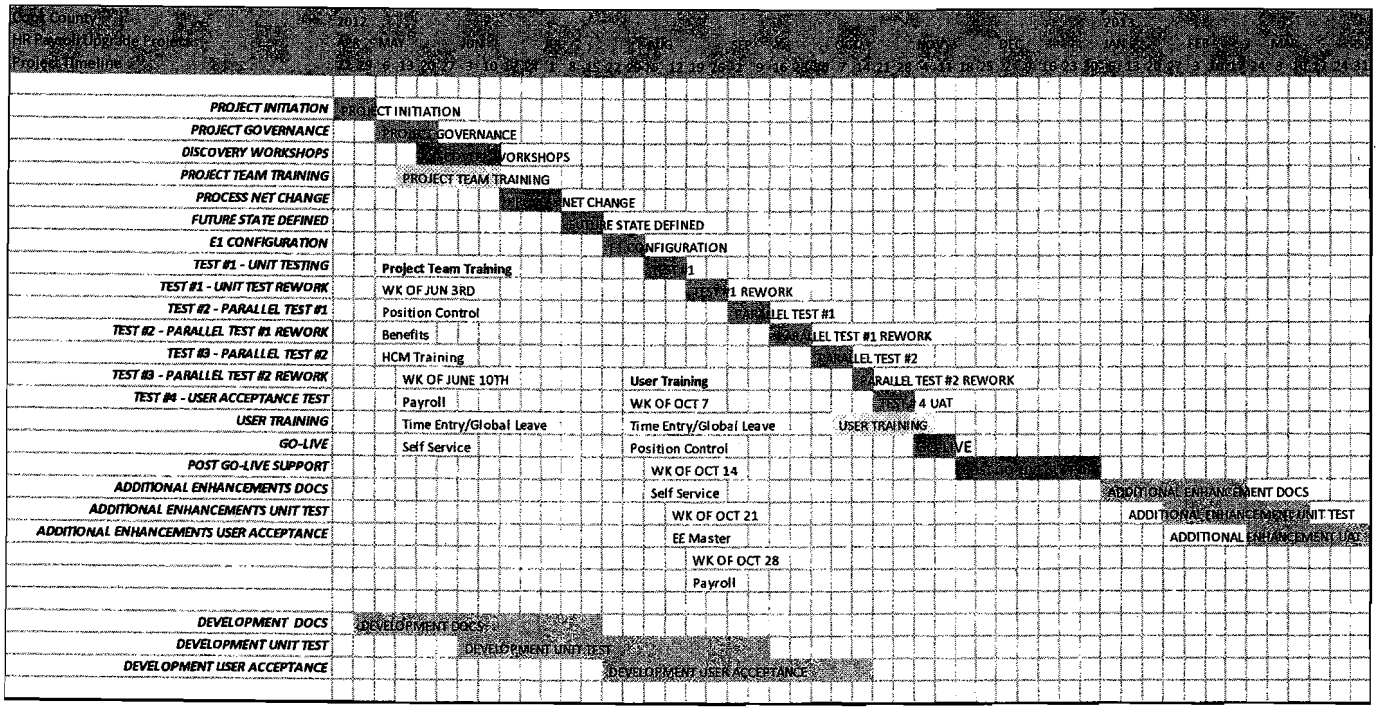
Project Timeline:



Custom Object Listing

This is a listing of known custom or modify files used in Client's JD Edwards World A73. These objects are limited to objects used since 01/01/2012. There are 131 files in the JDEFIXES library.

Type	Name	Attr	Library	Description
*FILE	ARSBKUP	PF	JDEFIXES	EKI JDE Customer Export File for Joan Quirke
*FILE	CORTABL	PF	JDEFIXES	Union Code Conversion Table for Corporate -- JOR
*FILE	F04572OO	PF	JDEFIXES	
*FILE	F060116Z	PF	JDEFIXES	
*FILE	F061121A	PF	JDEFIXES	
*FILE	F06166Z	PF	JDEFIXES	Changed 04-08-2009 – JOR
*FILE	F0618FMX	PF	JDEFIXES	
*FILE	F0618SUM	PF	JDEFIXES	
*FILE	F4301UPL	PF	JDEFIXES	
*FILE	F4301Z1UPL	PF	JDEFIXES	
*FILE	F4311UPL	PF	JDEFIXES	
*FILE	F4311Z1UPL	PF	JDEFIXES	
*FILE	F55ACC05	PF	JDEFIXES	Sick and Vacation Liability Report
*FILE	F55ACR1C	PF	JDEFIXES	Employee Absence by Category Report for Joan
*FILE	F55ACTRL	PF	JDEFIXES	Animal Control JDF File
*FILE	F55AETBL	PF	JDEFIXES	Process for Aetna Insurance.
*FILE	F55AFIN	PF	JDEFIXES	Insurance information for AFSCME employees -- JOR
*FILE	F55AM1A	PF	JDEFIXES	Absence Management Export Files for Joan
*FILE	F55AM1AL	PF	JDEFIXES	Absence Management Export Files for Joan Quirke

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*FILE	F55AM1B	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1C	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1D	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1E	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1EM	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1F	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1H	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1I	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1J	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55AM1K	PF	JDEFIXES	Absence Management Export Files for Joan Quirke
*FILE	F55ASC20	PF	JDEFIXES	ASC MASTER FILE
*FILE	F55ASC30	PF	JDEFIXES	Novatime Employee Master Download File for Joan Q.
*FILE	F55ASC31	PF	JDEFIXES	08-25-2008, new balance file -- JOR
*FILE	F55BDNTL	PF	JDEFIXES	
*FILE	F55BEMPD	PF	JDEFIXES	
*FILE	F55BEMPH	PF	JDEFIXES	
*FILE	F55BENUP	PF	JDEFIXES	
*FILE	F55BHLTH	PF	JDEFIXES	
*FILE	F55CUST1	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55CUSTO	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55CUSTP	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55EAC0R	PF	JDEFIXES	Transfers-Only Download Report File for Joan
*FILE	F55EAC1R	PF	JDEFIXES	Transfers-Only Download Report File for Joan
*FILE	F55EACM0	PF	JDEFIXES	New Hire and Promotion Download Report File
*FILE	F55EACM1	PF	JDEFIXES	New Hire and Promotion Download Report File
*FILE	F55EACRV	PF	JDEFIXES	Transfers-Only Download Report File for Joan
*FILE	F55EACTV	PF	JDEFIXES	New Hire and Promotion Download Report File
*FILE	F55EMPLY	PF	JDEFIXES	
*FILE	F55FLSA	PF	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke
*FILE	F55HCR02	PF	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.
*FILE	F55HCR04	PF	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit
*FILE	F55HCR12	PF	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR
*FILE	F55HCR14	PF	JDEFIXES	
*FILE	F55HCRX1	PF	JDEFIXES	NEW FILE -- 12-19-2007.
*FILE	F55HCRXX	PF	JDEFIXES	Health Summary Earning Register Download File
*FILE	F55HR330	PF	JDEFIXES	Tape Layout for Annual Census Tape
*FILE	F55HR330N	PF	JDEFIXES	Copy of F55HR330 for non-emp benificiaries
*FILE	F55INVP	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55INVP1	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55INVP2	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55INVP2B	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan
*FILE	F55INVP3	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan

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*FILE	F55JUD04	PF	JDEFIXES	Judges' Supplemental Payroll for Don Fronk -- JOR
*FILE	F55MET1	PF	JDEFIXES	Master Employee Table for Patel
*FILE	F55NFR3	PF	JDEFIXES	
*FILE	F55NFRC	PF	JDEFIXES	
*FILE	F55NFRC1	PF	JDEFIXES	
*FILE	F55POS20	PF	JDEFIXES	Output to EXCEL from P55POS19 AND P55POS20 -- JOR
*FILE	F55PPR2A	PF	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke
*FILE	F55PPR2B	PF	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke
*FILE	F55PPR3A	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC
*FILE	F55PPR3B	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC
*FILE	F55PPR3C	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC
*FILE	F55RM340	PF	JDEFIXES	Prepare input to benefits screen.
*FILE	F55T743	PF	JDEFIXES	Record desc for Teamsters Local 743 (JobCode/Rate)
*FILE	F55TBEN	PF	JDEFIXES	Tape Layout for Monthly Insurance - D,V,M -- JOR
*FILE	F55TBENS	PF	JDEFIXES	Make pointers to F060116 for query report -- JOR
*FILE	F55TBOND	PF	JDEFIXES	Tape Layout for Bonds - detail
*FILE	F55TBONT	PF	JDEFIXES	Tape Layout for Bonds - total
*FILE	F55THIK	PF	JDEFIXES	Health insurance billings -- JOR
*FILE	F55THIKA	PF	JDEFIXES	Health insurance billings -- JOR
*FILE	F55TIM21	PF	JDEFIXES	Employee Transactions - Batch File
*FILE	F55TLFBA	PF	JDEFIXES	Process for Aetna Insurance.
*FILE	F55TRN1	PF	JDEFIXES	
*FILE	F55TRN2	PF	JDEFIXES	
*FILE	F55TRNSF	PF	JDEFIXES	Wageworks Transit Eligibility File
*FILE	F55TRNST	PF	JDEFIXES	Wageworks Transit Eligibility File
*FILE	F55TUAF2	PF	JDEFIXES	Tape Layout for Union - AFSCME & People's
*FILE	F55UNWY1	PF	JDEFIXES	United Way Eligible Employee Donor File for Joan
*FILE	F55W2FL	PF	JDEFIXES	File that maps to SYS1.PANLIB(W2FILEFD01) -- JOR
*FILE	F560001P	PF	JDEFIXES	Check Extract File
*FILE	F56BUSUNIT	PF	JDEFIXES	
*FILE	F58AR7A	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR
*FILE	F58AR7CD	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR
*FILE	F58AR7CH	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR
*FILE	F58AR7D	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR
*FILE	F58AR7H	PF	JDEFIXES	
*FILE	F59COOKC	PF	JDEFIXES	
*FILE	F69COOKC	PF	JDEFIXES	
*FILE	HFMTABL	PF	JDEFIXES	Union Code Conversion Table for Health Facilities
*FILE	INVBKUP	PF	JDEFIXES	Daily EKI File of Invoices Updated in JDE for Joan
*FILE	OPENDNTL	PF	JDEFIXES	
*FILE	OPENENRL	PF	JDEFIXES	
*FILE	R55HMOE2	PF	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke

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*FILE	R55HMOE3	PF	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke
*FILE	R55HMOS2	PF	JDEFIXES	Enroll Employee HMO Health Plan for Joan Quirke
*FILE	R55PEN2	PF	JDEFIXES	Pension Records That Have Been Ended for J. Quirke
*FILE	R58AR7CR	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR
*FILE	T55HCSC	PF	JDEFIXES	Health Care Service Corporation 9/13/2011 -- JOR
*FILE	T55HCSCB	PF	JDEFIXES	Health Care Service Corporation new 08-18-2010
*FILE	T55HCSCH	PF	JDEFIXES	Health Care Service Corporation new 08-18-2010
*FILE	W55HCSC	PF	JDEFIXES	Health Care Service Corporation for Patel
*FILE	WF06116CCH	PF	JDEFIXES	
*FILE	WF06116CMK	PF	JDEFIXES	
*FILE	WF06116CRE	PF	JDEFIXES	
*FILE	WF06116H	PF	JDEFIXES	
*FILE	WF06116HLT	PF	JDEFIXES	
*FILE	WF06116OCF	PF	JDEFIXES	
*FILE	WF06116PMC	PF	JDEFIXES	
*FILE	WF06116T	PF	JDEFIXES	
*FILE	WF06116X	PF	JDEFIXES	
*FILE	WF080200	PF	JDEFIXES	HLT & DPH Employees Mini File
*FILE	XF55JBEN	PF	JDEFIXES	Jan. 23, 2009
*FILE	XF55JBNF	PF	JDEFIXES	Jan. 23, 2009

This is a listing of known custom or modify Programs used in Client's JD Edwards World A73. These objects are limited to objects used since 01/01/2012.

Type	Name	Attribute	Library	Description
*PGM	P55AFIN	CBL	JDEFIXES	Monthly insurance for AFSCME -- JOR
*PGM	P55HR330	CBL	JDEFIXES	INSURANCE CENSUS TAPE PROGRAM
*PGM	P55RM340	CBL	JDEFIXES	Prepare input to benefits screen.
*PGM	P55TBEN1	CBL	JDEFIXES	12/26/2012, add department "896" to health fundJOR
*PGM	P55TBEN2	CBL	JDEFIXES	11/30/2012 insurance enrollment -- JOR
*PGM	P55TLFBA	CBL	JDEFIXES	08/14/09 - LIST "ABF" ON THE TERMINATES REPORT JOR
*PGM	P58JE	CBL	JDEFIXES	Hospital Inventory Transaction Update
*PGM	ACCRUALBAL	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE
*PGM	ACCRUALBOA	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE
*PGM	ACCRUALBPS	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service
*PGM	ACCRUALMIS	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE
*PGM	ACCRUALOBA	CLP	JDEFIXES	Create Cook County OBA ACCRUAL FILE
*PGM	ACCRUALRMD	CLP	JDEFIXES	Create Cook County RMD ACCRUAL FILE
*PGM	ACCRUALROD	CLP	JDEFIXES	Create Cook County ROD ACCRUAL FILE
*PGM	ACTCORPDBA	CLP	JDEFIXES	Create Cook County FPD ACTIVE DBA FILE
*PGM	ACTFPDDBA	CLP	JDEFIXES	Create Cook County FPD ACTIVE DBA FILE
*PGM	EDLIAUBA	CLP	JDEFIXES	
*PGM	J04572WFTP	CLP	JDEFIXES	EqualLevel Purchase Order File

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*PGM	J06110Z	CLP	JDEFIXES	Open Architecture - Employee Trans Batch Processin		201
*PGM	J06116BOH	CLP	JDEFIXES	Upload Timecards - Clear Workfile		201
*PGM	J06116CMK	CLP	JDEFIXES			201
*PGM	J06116CMKS	CLP	JDEFIXES			201
*PGM	J06116HLT	CLP	JDEFIXES			201
*PGM	J06116HLZ	CLP	JDEFIXES			201
*PGM	J06116HLZS	CLP	JDEFIXES			201
*PGM	J06116OFH	CLP	JDEFIXES			201
*PGM	J06116OFHS	CLP	JDEFIXES			201
*PGM	J06116PMC	CLP	JDEFIXES			201
*PGM	J06116PMCS	CLP	JDEFIXES			201
*PGM	J061191FP	CLP	JDEFIXES			201
*PGM	J06166	CLP	JDEFIXES	Tax Ledger Repost		201
*PGM	J06210JQ	CLP	JDEFIXES	Pre-Payroll - Batch Job Stream		201
*PGM	J062301	CLP	JDEFIXES	Print Paychecks - Interactive Processing Parameter		201
*PGM	J06250	CLP	JDEFIXES	Final Update - Interactive Processing Parameters		201
*PGM	J06250JQ	CLP	JDEFIXES	Final Update - Batch Job Stream		201
*PGM	J064501	CLP	JDEFIXES	Accrual Report Changes by JDE Download FTP		201
*PGM	J064501PTM	CLP	JDEFIXES	Benefit Accrual Roster more than 10 PDBA's		201
*PGM	J06493	CLP	JDEFIXES	Payroll Voucher Journal Detail		201
*PGM	J065501	CLP	JDEFIXES	CUSTOM Auto Bank Deposit File Creation		201
*PGM	J068301CCH	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J068301CMK	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J068301COR	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J068301FPD	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J068301OFH	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J068301PMC	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT	c12	201
*PGM	J080200	CLP	JDEFIXES	HLT & DPH Union Employees Report		201
*PGM	J55061121	CLP	JDEFIXES			201
*PGM	J55061121S	CLP	JDEFIXES			201
*PGM	J550801	CLP	JDEFIXES	Employee Master - HR Initial Setup		201
*PGM	J55116AMB5	CLP	JDEFIXES	Upload Timecards - Clear Workfile		201
*PGM	J55116ASR4	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm		201
*PGM	J55116ASR5	CLP	JDEFIXES	Upload Timecards - CCASSR CLEAR WORKFILE		201
*PGM	J55116BOA4	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm		201
*PGM	J55116BOA5	CLP	JDEFIXES	Upload Timecards - BOA Clrpfm		201
*PGM	J55116BPS4	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm		201
*PGM	J55116BPS5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE		201
*PGM	J55116CCC4	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm		201
*PGM	J55116CCH3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040		201
*PGM	J55116CCH7	CLP	JDEFIXES	Upload Timecards - Clear Workfile		201
*PGM	J55116CCJ	CLP	JDEFIXES	Upload Timecards CHFJG DPT#310		201

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*PGM	J55116CCJ1	CLP	JDEFIXES	Upload Timecards CHFJG DPT#280	201
*PGM	J55116CCJ2	CLP	JDEFIXES	Upload Timecards CHFJG DPT#313	201
*PGM	J55116CCJ3	CLP	JDEFIXES	Upload Timecards CHFJG DPT#326 #538	201
*PGM	J55116CCJ4	CLP	JDEFIXES	Upload Timecards CHFJG DPT#305	201
*PGM	J55116CCJ5	CLP	JDEFIXES	Upload Timecards CHFJG DPT#312	201
*PGM	J55116CMK5	CLP	JDEFIXES	Upload Timecards - CCCMK CLEAR WORKFILE	201
*PGM	J55116COC4	CLP	JDEFIXES	Upload Timecards - CCO Cpyf, Clrpfm	201
*PGM	J55116COM2	CLP	JDEFIXES	Clear Error File F0040	201
*PGM	J55116COMP	CLP	JDEFIXES	'Upload Timecards - Comptroller's Office'	201
*PGM	J55116CRE5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	201
*PGM	J55116DPH3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	201
*PGM	J55116DPH4	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	201
*PGM	J55116DPH5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	201
*PGM	J55116MIS4	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm	201
*PGM	J55116OBA4	CLP	JDEFIXES	Upload Timecards - OBA Cpyf, Clrpfm	201
*PGM	J55116OFC5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE	201
*PGM	J55116OFH5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE	201
*PGM	J55116PGM	CLP	JDEFIXES	Retro Pay Upload Job	201
*PGM	J55116PMC5	CLP	JDEFIXES	Upload Timecards - CCPMC CLEAR WORKFILE	201
*PGM	J55116RET1	CLP	JDEFIXES	Upload Timecards - RETRO CHECK	201
*PGM	J55116RET3	CLP	JDEFIXES	Clear Error File F0040	201
*PGM	J55116RMD4	CLP	JDEFIXES	Upload Timecards - BOF Cpyf, Clrpfm	201
*PGM	J55116RMD5	CLP	JDEFIXES	Clear Work File - BOF	201
*PGM	J55116SBM	CLP	JDEFIXES	Retro Pay Upload Job	201
*PGM	J55116SHE2	CLP	JDEFIXES	Upload Timecards - SHE Run WW, Clean-up F0040	201
*PGM	J55116SHE3	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm	201
*PGM	J55116SHE5	CLP	JDEFIXES	Upload Timecards - CCSHE CLEAR WORKFILE	201
*PGM	J55116STA4	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	201
*PGM	J55116STA5	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	201
*PGM	J551211	CLP	JDEFIXES	CCCOPY Inquiry - Batch Summary by Batch RANGE	201
*PGM	J551215	CLP	JDEFIXES	Custom Positions Inquiry -- JOR	201
*PGM	J551221	CLP	JDEFIXES	CCCOPY Inquiry - Batch Summary by Pay Type RANGE	201
*PGM	J551231	CLP	JDEFIXES	CCCOPY Inquiry - Batch Detail Review RANGE	201
*PGM	J552301TRN	CLP	JDEFIXES	CUSTOM -- Transfer spoolfiles using FTP (PayCycle)	201
*PGM	J55250TRN	CLP	JDEFIXES	CUSTOM -- Transfer Positive Pay to mainframe	201
*PGM	J55250XXX	CLP	JDEFIXES	CUSTOM -- Calls J55THIB which calls P55THIB	201
*PGM	J553501	CLP	JDEFIXES	Populate check file into F553501 history	201
*PGM	J553501C	CLP	JDEFIXES		201
*PGM	J553501CB	CLP	JDEFIXES	Batch version of J553501C -- JOR (Post 6/15/2010)	201
*PGM	J553501F	CLP	JDEFIXES	LOADS PAYLIBFPD/F553501F FROM F553501 (02/19/09)	201
*PGM	J553501FB	CLP	JDEFIXES	Batch version of J553501F -- JOR	201
*PGM	J553501FTD	CLP	JDEFIXES	Batch version of J553501F -- JOR	201

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*PGM	J553501H	CLP	JDEFIXES	LOADS F553501H FROM JDEFIXES/F553501 (10/22/07)	201
*PGM	J553501HB	CLP	JDEFIXES	Batch version of J553501H -- JOR	201
*PGM	J555501TRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe	201
*PGM	J55ACC02	CLP	JDEFIXES	Accrual Balance Export Program for Joan Quirke	201
*PGM	J55ACC02S	CLP	JDEFIXES	Accrual Balance Export Program for Joan Quirke	201
*PGM	J55ACC04	CLP	JDEFIXES	Newer than J55ACC01 - O. F. VAC. AND SICK ACCR	201
*PGM	J55ACC04S	CLP	JDEFIXES	Newer than J55ACC01 - O. F. VAC. AND SICK AC	201
*PGM	J55ACC05	CLP	JDEFIXES	Sick and Vacation Accrued Liability Report	201
*PGM	J55ACC05S	CLP	JDEFIXES	Sick and Vacation Accrued Liability Report	201
*PGM	J55ACR1	CLP	JDEFIXES	Employee Absence by Category Report for Joan	201
*PGM	J55ACR1SM	CLP	JDEFIXES	Employee Absence by Category Report for Joan	201
*PGM	J55ACTRL	CLP	JDEFIXES	Create Animal Control JDF File	201
*PGM	J55AFIN	CLP	JDEFIXES	Monthly insurance for AFSCME	201
*PGM	J55AFINTRN	CLP	JDEFIXES	MONTHLY INSURANCE FOR AFSCME -- JOR	201
*PGM	J55AGEUP	CLP	JDEFIXES		201
*PGM	J55ALPHA	CLP	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP	201
*PGM	J55ALPHAS	CLP	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP -- JOR	201
*PGM	J55AM1	CLP	JDEFIXES	Absence Management Export Files for Joan Quirke	201
*PGM	J55AM1SM	CLP	JDEFIXES	Absence Management Export Files for Joan Quirke	201
*PGM	J55ASC30	CLP	JDEFIXES	08-25-2008, new balance file -- JOR	201
*PGM	J55ASC30SM	CLP	JDEFIXES	Novatime Employee Master Download File for Joan Q.	201
*PGM	J55ATV1	CLP	JDEFIXES	Multiple Open Employee Activity Records for Joan	201
*PGM	J55B082001	CLP	JDEFIXES	Backup - create copy of F082001 Pay Grade/Step	201
*PGM	J55BDEP	CLP	JDEFIXES	Update Ers Using PDM CFMIS400	201
*PGM	J55BEMPD	CLP	JDEFIXES		201
*PGM	J55BEMPDV	CLP	JDEFIXES		201
*PGM	J55BEMPH	CLP	JDEFIXES		201
*PGM	J55BENUP	CLP	JDEFIXES		201
*PGM	J55BENWEEK	CLP	JDEFIXES	Transfer Weeekly Benefits using FTP - JOR	201
*PGM	J55BLDFTP	CLP	JDEFIXES	Build FTP	201
*PGM	J55BOAEMPF	CLP	JDEFIXES	Create Cook County HYW EMP MAST FILE	201
*PGM	J55BPEN15	CLP	JDEFIXES	12-29-2010 new -- JOR **********	201
*PGM	J55BPENL	CLP	JDEFIXES	12-29-2010 new -- JOR **********	201
*PGM	J55BPENLB	CLP	JDEFIXES	12-29-2010 new -- JOR **********	201
*PGM	J55BPSEMPF	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service	201
*PGM	J55CCCEMPF	CLP	JDEFIXES	Create Cook County Curcuit Court Emp MastFile	201
*PGM	J55CHIKB	CLP	JDEFIXES	Batch version of J553501C -- JOR	201
*PGM	J55CTRLTRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe	201
*PGM	J55CUSTO	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	J55CUSTP	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	J55DATES	CLP	JDEFIXES	Online screen to convert dates	201
*PGM	J55DATES2	CLP	JDEFIXES	Online screen to Increment/Decrement dates	201

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*PGM	J55DEFTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	201
*PGM	J55DEPTX0X	CLP	JDEFIXES	Health Cost Report -- Overtime Summary by Employee	201
*PGM	J55DEPTXSB	CLP	JDEFIXES		201
*PGM	J55DEPTXXX	CLP	JDEFIXES		201
*PGM	J55DFSMBC	CLP	JDEFIXES		201
*PGM	J55DFSMBF	CLP	JDEFIXES		201
*PGM	J55DNL1	CLP	JDEFIXES	Payroll and HR Download Files for Joan Quirke	201
*PGM	J55EACTRSB	CLP	JDEFIXES	Transfers-Only Download Report File for Joan	201
*PGM	J55EACTRSC	CLP	JDEFIXES	Transfers-Only Download Report File for Joan	201
*PGM	J55EACTVSB	CLP	JDEFIXES	05-10-2010 modification -- JOR	201
*PGM	J55EACTVSC	CLP	JDEFIXES	05-25-2010 Modification.	201
*PGM	J55EARN2SB	CLP	JDEFIXES	create selective earnings (Overtime) report-Screen	201
*PGM	J55EDITS	CLP	JDEFIXES	Edits/Fixes to be run periodically PAYROLL	201
*PGM	J55EDST12S	CLP	JDEFIXES	Revenue Account Groups Summary Report, 03-26-04	201
*PGM	J55EDSTR1	CLP	JDEFIXES	Payroll Earnings and Deductions Summary Rep	201
*PGM	J55EDSTR1B	CLP	JDEFIXES	Batch version of J55EDSTR1 - JOR	201
*PGM	J55EDSTR1S	CLP	JDEFIXES	Payroll Earnings and Deductions Summary Rep	201
*PGM	J55EDSTR2B	CLP	JDEFIXES	Batch version of J55EDSTR2 - JOR	201
*PGM	J55EMPDPHL	CLP	JDEFIXES	Print HLT & DPH Union Employees	201
*PGM	J55ENROL	CLP	JDEFIXES		201
*PGM	J55EQLLVL	CLP	JDEFIXES		201
*PGM	J55EQLVL	CLP	JDEFIXES		201
*PGM	J55EXC01	CLP	JDEFIXES	Differences between current and prior payroll, JOR	201
*PGM	J55EXC02	CLP	JDEFIXES	Payroll exception reports, override amounts -- JOR	201
*PGM	J55EXC03	CLP	JDEFIXES	Payroll exception, days worked outside py-pd - JOR	201
*PGM	J55EXC04	CLP	JDEFIXES	Payroll exceptions, Check standard hours -- JOR	201
*PGM	J55EXC05	CLP	JDEFIXES	Update object account for Non-110 -- JOR	201
*PGM	J55F04572W	CLP	JDEFIXES		201
*PGM	J55F0618SB	CLP	JDEFIXES		201
*PGM	J55F4301	CLP	JDEFIXES	EqualLevel Purchase Order File	201
*PGM	J55F4311	CLP	JDEFIXES	EqualLevel Purchase Order File	201
*PGM	J55FACMGT	CLP	JDEFIXES		201
*PGM	J55FACMGT0	CLP	JDEFIXES	Facility Management Reporting	201
*PGM	J55FAMGTSB	CLP	JDEFIXES		201
*PGM	J55FAMGTSM	CLP	JDEFIXES	Facility Management Reporting	201
*PGM	J55FLSA	CLP	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke	201
*PGM	J55FLXCP	CLP	JDEFIXES		201
*PGM	J55FLXSP	CLP	JDEFIXES		201
*PGM	J55FPDEMPF	CLP	JDEFIXES	Create Cook County FPD EMP MAST FILE	201
*PGM	J55FPDFTP	CLP	JDEFIXES	Transfer Funding file (F56FPFTP) Positive Pay	201
*PGM	J55FUND01R	CLP	JDEFIXES	09-05-03 B/U from ccdev400.jdefixes.cccustom	201
*PGM	J55FUNDFTP	CLP	JDEFIXES	Transfer Funding file (F560001P) Positive Pay	201

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*PGM	J55GARN01	CLP	JDEFIXES	Report - Garnishments w/Unpaid Hours	201
*PGM	J55HCR02	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	201
*PGM	J55HCR02SM	CLP	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	201
*PGM	J55HCR04	CLP	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	201
*PGM	J55HCR04SM	CLP	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	201
*PGM	J55HCR12	CLP	JDEFIXES	Health Cost Report - Overtime Summary by Employee	201
*PGM	J55HCR12SM	CLP	JDEFIXES	Health Cost Report - Overtime Summary by Employee	201
*PGM	J55HCR14	CLP	JDEFIXES	Changed 02-02-2010 -- JOR	201
*PGM	J55HCR14SM	CLP	JDEFIXES	Changed 02-02-2010 -- JOR	201
*PGM	J55HCRXX	CLP	JDEFIXES	Health Summary Earning Register Download File	201
*PGM	J55HCRXXSM	CLP	JDEFIXES	Health Summary Earning Register Download File	201
*PGM	J55HCSC	CLP	JDEFIXES	Health Care Service Corporation for Patel	201
*PGM	J55HCSCTRN	CLP	JDEFIXES	Health Care Service Corporation for Patel	201
*PGM	J55HHIKB	CLP	JDEFIXES	Batch version of J553501C -- JOR	201
*PGM	J55HIWAYSB	CLP	JDEFIXES		201
*PGM	J55HLTENRL	CLP	JDEFIXES	Health Deduction Rate Customization	201
*PGM	J55HLTHSA	CLP	JDEFIXES	CCH House Staff Assoc. Union Membership File	201
*PGM	J55HMOE	CLP	JDEFIXES	End EMPLOYEE Enroll in Health Plan for Joan Quirke	201
*PGM	J55HMOEBEN	CLP	JDEFIXES	End BENEFITS Enroll in Health Plan for Joan Quirke	201
*PGM	J55HMOS	CLP	JDEFIXES	Enroll EMPLOYEE HMO Health Plan for Joan Quirke	201
*PGM	J55HMOSBEN	CLP	JDEFIXES	Enroll BENEFITS HMO Health Plan for Joan Quirke	201
*PGM	J55HR330	CLP	JDEFIXES	INSURANCE CENSUS TAPE PROGRAM	201
*PGM	J55HWAYMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	201
*PGM	J55INVP	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	J55JUD04	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	201
*PGM	J55JUD04J	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	201
*PGM	J55JUD04JM	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	201
*PGM	J55JUD04SM	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	201
*PGM	J55JUD4TRN	CLP	JDEFIXES	CUSTOM -- Transfer JUDGES PENSION using FTP -- JOR	201
*PGM	J55L202BPS	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm	201
*PGM	J55MASBK	CLP	JDEFIXES		201
*PGM	J55MASSCSB	CLP	JDEFIXES		201
*PGM	J55MDTAQ	CLP	JDEFIXES	Monthly - delete/recreate dtaq	201
*PGM	J55MET1	CLP	JDEFIXES	Master Employee Table for Patel	201
*PGM	J55MET1TRN	CLP	JDEFIXES	Master Employee Table for Patel	201
*PGM	J55MINICOR	CLP	JDEFIXES	Create mini Empl file for compt Accrl Adj	201
*PGM	J55MIS01SM	CLP	JDEFIXES	Submit Rerun FTP of Bottomline files	201
*PGM	J55MIS02SM	CLP	JDEFIXES	Submit Rerun Payroll Downloads (deductions)	201
*PGM	J55MIS13SM	CLP	JDEFIXES	Submit Monthly Benefits (J55PAYMON)	201
*PGM	J55MISEMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	201
*PGM	J55MVSRCS4	CLP	JDEFIXES	Step 4 - Move from JDEFXTST to JDEFIXES	201
*PGM	J55NATDRCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	201

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*PGM	J55NATDRHB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	201
*PGM	J55NFR3	CLP	JDEFIXES		201
*PGM	J55NFR3R	CLP	JDEFIXES	Invented 10/21/2010 -- JOR	201
*PGM	J55NFR3SND	CLP	JDEFIXES	REVSHARE for Joan Quirke.	201
*PGM	J55NFRC1	CLP	JDEFIXES		201
*PGM	J55NFRC1R	CLP	JDEFIXES	Invented 10/21/2010 -- JOR	201
*PGM	J55NFRC1SN	CLP	JDEFIXES	REVSHARE for Joan Quirke.	201
*PGM	J55NHR1SM	CLP	JDEFIXES	New-Hire Reporting (W4 File) for Joan Quirke	201
*PGM	J55OBAEMPF	CLP	JDEFIXES	Create Cook County FPD EMP MAST FILE	201
*PGM	J55PAYDATE	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	201
*PGM	J55PAYTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	201
*PGM	J55PEM1	CLP	JDEFIXES	Single Plan Entry Maintenance Screen for Joan	201
*PGM	J55PEN2	CLP	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	201
*PGM	J55PENSUPD	CLP	JDEFIXES	05/14/2012, omit if yapast = T, 9, or L -- JOR	201
*PGM	J55PENTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR pension info to mainframe	201
*PGM	J55POS01	CLP	JDEFIXES	Report - Open Positions	201
*PGM	J55POS01SM	CLP	JDEFIXES	Submit Report - Open Positions	201
*PGM	J55POS02	CLP	JDEFIXES	Report - All Positions	201
*PGM	J55POS02SM	CLP	JDEFIXES	Submit Report - All Positions	201
*PGM	J55POS03	CLP	JDEFIXES	Report - All Positions w/budgets	201
*PGM	J55POS03SM	CLP	JDEFIXES	Submit Report - All Positions w/budgets	201
*PGM	J55POS04	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	201
*PGM	J55POS04SM	CLP	JDEFIXES	Submit Report - All Positions w/budgets, bu total	201
*PGM	J55POS05	CLP	JDEFIXES	Report - All Positions position exceptions	201
*PGM	J55POS05SM	CLP	JDEFIXES	Submit Report - All Positions position exceptions	201
*PGM	J55POS06	CLP	JDEFIXES	Report - All Positions HR inc step	201
*PGM	J55POS06SM	CLP	JDEFIXES	Submit Report - All Positions HR inc step	201
*PGM	J55POS07	CLP	JDEFIXES	Report - All Positions HR inc step & hourly rate	201
*PGM	J55POS07SM	CLP	JDEFIXES	Submit Report - All Positions HR inc step & rate	201
*PGM	J55POS08	CLP	JDEFIXES	Report - All Positions sort by title	201
*PGM	J55POS08SM	CLP	JDEFIXES	Submit Report - All Positions sort by title	201
*PGM	J55POS09	CLP	JDEFIXES	Report - All Positions sort by grade, title	201
*PGM	J55POS09SM	CLP	JDEFIXES	Submit Report - All Positions sort by grade, titl	201
*PGM	J55POS10SM	CLP	JDEFIXES	Submit Report - All Positions select MCU	201
*PGM	J55POS12	CLP	JDEFIXES	Report - All Positions sort by grade, title	201
*PGM	J55POS12SM	CLP	JDEFIXES	Submit Report -	201
*PGM	J55POS13	CLP	JDEFIXES	Report - No employee attached	201
*PGM	J55POS13SM	CLP	JDEFIXES	Submit Report - No employee atached	201
*PGM	J55POS16	CLP	JDEFIXES	Report - All Positions exceptions by dpt,alpha	201
*PGM	J55POS16SM	CLP	JDEFIXES	Submit Report - All Positions exc by dpt,alpha	201
*PGM	J55POS17	CLP	JDEFIXES	Report - All Positions position excep inc. L	201
*PGM	J55POS17SM	CLP	JDEFIXES	Submit Report - All Positions position except w/L	201

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*PGM	J55POS18	CLP	JDEFIXES	Report - Compare positions and amounts (match)	201
*PGM	J55POS18SM	CLP	JDEFIXES	Submit Report - Compare negatives	201
*PGM	J55POS19	CLP	JDEFIXES	Report - Compare positions and amounts (NEGATIVE)	201
*PGM	J55POS19SM	CLP	JDEFIXES	Submit Report - Compare negatives	201
*PGM	J55POS20	CLP	JDEFIXES	Report - Compare positions and amounts (POSITIVE)	201
*PGM	J55POS20SM	CLP	JDEFIXES	Submit Report - Compare positives	201
*PGM	J55POS21	CLP	JDEFIXES	Report - Compare positions and amounts (ALL)	201
*PGM	J55POS21SM	CLP	JDEFIXES	Submit Report - Compare all	201
*PGM	J55POS24	CLP	JDEFIXES	Create download file	201
*PGM	J55POS24SM	CLP	JDEFIXES	Submit Create download file	201
*PGM	J55POS33	CLP	JDEFIXES	Report - Open Positions by Job Code -- JOR	201
*PGM	J55POS33SM	CLP	JDEFIXES	Report - Open Positions by Job Code -- JOR	201
*PGM	J55POS34	CLP	JDEFIXES	Open POS sort by HBU and Jobcd	201
*PGM	J55POS34SM	CLP	JDEFIXES	Open POS sort by HBU and Jobcd	201
*PGM	J55POS35	CLP	JDEFIXES	Open POS sort by Dpt and Jobcd	201
*PGM	J55POS35SM	CLP	JDEFIXES	Open POS sort by Dpt and Jobcd	201
*PGM	J55POSB01S	CLP	JDEFIXES	Submit Update - Budget prep	201
*PGM	J55POSB03	CLP	JDEFIXES	Update - Next Raise Date using subroutine	201
*PGM	J55POSB03S	CLP	JDEFIXES	Submit Update - Salary Forecast	201
*PGM	J55POSN01S	CLP	JDEFIXES	Submit Report - Open Positions for FPD -- JOR	201
*PGM	J55POSN02S	CLP	JDEFIXES	Submit Report - All Positions for FPD -- JOR	201
*PGM	J55POSN03S	CLP	JDEFIXES	Submit Report - All Positions w/budgets, FPD, JOR	201
*PGM	J55POSN04S	CLP	JDEFIXES	Submit Report - All Positions w/budgets, bu total	201
*PGM	J55POSN05S	CLP	JDEFIXES	Submit Report - All Positions position exceptions	201
*PGM	J55POSN06S	CLP	JDEFIXES	Report All Positions HR with step for FPD -- JOR	201
*PGM	J55POSN09S	CLP	JDEFIXES	All Positions sort by grade, title for FPD -- JOR	201
*PGM	J55POSN12S	CLP	JDEFIXES	Report - All Positions (select JBCD) for FPD, JOR	201
*PGM	J55POSN13S	CLP	JDEFIXES	Report - All exception for FPD -- JOR	201
*PGM	J55POSN16S	CLP	JDEFIXES	Report - All Pos, ee,exc by dpt,alpha for FPD, JOR	201
*PGM	J55POSN17S	CLP	JDEFIXES	All Positions all ee',exception w/L for FPD - JOR	201
*PGM	J55POSN21S	CLP	JDEFIXES	Report - positives for FPD -- JOR	201
*PGM	J55PPLGLFS	CLP	JDEFIXES		201
*PGM	J55PPLGLHS	CLP	JDEFIXES		201
*PGM	J55PPLGLXB	CLP	JDEFIXES	Batch version of J55PPLGLX -- JOR	201
*PGM	J55PPR02	CLP	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	J55PPR02SM	CLP	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	J55PPR3	CLP	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	J55PPR3SM	CLP	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	J55PTM03	CLP	JDEFIXES	Part Time Health and Accrual DBA Rate Update, Joan	201
*PGM	J55PWESND	CLP	JDEFIXES	04/25/2012 -- REVINWEB1 for Joan Quirke.	201
*PGM	J55RM340	CLP	JDEFIXES	Prepare input to benefits screen.	201
*PGM	J55RM340TP	CLP	JDEFIXES	Replaces J55HR330TP, 03-17-2006	201

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*PGM	J55RMDEMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	201
*PGM	J55RODEMPF	CLP	JDEFIXES	Create Cook County ROD EMP MAST FILE	201
*PGM	J55SEC01	CLP	JDEFIXES	Health Wage Index Summary Download for Joan	201
*PGM	J55SEC01SM	CLP	JDEFIXES	Health Wage Index Summary Download for Joan	201
*PGM	J55SHEMPF	CLP	JDEFIXES	Create Cook County SHERIF"S Emp MastFile	201
*PGM	J55SHEMPN	CLP	JDEFIXES	Create Cook County SHERIFS Emp ADDRESS FILE	201
*PGM	J55SLEEP01	CLP	JDEFIXES	Compt Sleeper Reports Missing Pension and Query	201
*PGM	J55SMARTCD	CLP	JDEFIXES	Create SmartCard Employee file in JDETIME	201
*PGM	J55T743	CLP	JDEFIXES		201
*PGM	J55T743B	CLP	JDEFIXES		201
*PGM	J55TBEN1D	CLP	JDEFIXES	Create Tape Layout for Monthly "Dental" -- JOR	201
*PGM	J55TBEN1M	CLP	JDEFIXES	Create Tape Layout for Monthly "Medical" -- JOR	201
*PGM	J55TBEN1SM	CLP	JDEFIXES	Calls J55TBEN1M, -D, -V for Monthly Benefits - JOR	201
*PGM	J55TBEN1V	CLP	JDEFIXES	Create Tape Layout for Monthly "Vision" -- JOR	201
*PGM	J55TBEN2D	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Dental" JOR	201
*PGM	J55TBEN2M	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Medical" JOR	201
*PGM	J55TBEN2V	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Vision" JOR	201
*PGM	J55TBENMDV	CLP	JDEFIXES	Calls J55TBENWK for Weekly Benefits	201
*PGM	J55TBENTRN	CLP	JDEFIXES	CUSTOM -- Transfer MONTHLY BENEFITS using FTP -JOR	201
*PGM	J55TBENWK	CLP	JDEFIXES	Create Tape Layout for Weekly Benefits	201
*PGM	J55TBENWK2	CLP	JDEFIXES	06/20/2012 Create File for Weekly Non-Emps JOR	201
*PGM	J55TBOND	CLP	JDEFIXES		201
*PGM	J55TBONDB	CLP	JDEFIXES	FMIS BONDS PAYMENTS - PRINT HOLD = *NO (BATCH)	201
*PGM	J55TCALI	CLP	JDEFIXES	Califiornia Nurses Union processing	201
*PGM	J55TCALIB	CLP	JDEFIXES	Califiornia Nurses Union processing	201
*PGM	J55TDCL	CLP	JDEFIXES		201
*PGM	J55TDEFL	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	201
*PGM	J55TDEFLB	CLP	JDEFIXES	Batch version of J553501C-Writes rept files to V:/	201
*PGM	J55TDFCTRN	CLP	JDEFIXES	FTP to send two Deferred Comp. Rept. files to V:/	201
*PGM	J55TFLXG	CLP	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	201
*PGM	J55TFLXGB	CLP	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	201
*PGM	J55TFLXGF	CLP	JDEFIXES		201
*PGM	J55TFLXGH	CLP	JDEFIXES		201
*PGM	J55THIKB	CLP	JDEFIXES	Health insurance billings -- JOR	201
*PGM	J55THIKNUP	CLP	JDEFIXES	hmo/ppo billing repts/files without history update	201
*PGM	J55TIER1	CLP	JDEFIXES	Incorrect Health Tier Enrollment Report for Joan	201
*PGM	J55TIER2	CLP	JDEFIXES	Incorrect Dental/Vision Enrollment for Joan Quirke	201
*PGM	J55TIME01	CLP	JDEFIXES	** Report - Timecard Batch Detail & Totals	201
*PGM	J55TIME01S	CLP	JDEFIXES	** Report - Timecard Batch Detail & Totals	201
*PGM	J55TIME02	CLP	JDEFIXES	Report - Timecard Standard Hours -- DG&JOR	201
*PGM	J55TIME02S	CLP	JDEFIXES	Report - Timecard Standard Hours -- DG&JOR	201
*PGM	J55TIME20	CLP	JDEFIXES	Health Timecard Detail by Employee	201

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*PGM	J55TIME20S	CLP	JDEFIXES	Health Timecard Detail by Employee	201
*PGM	J55TIME21	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	J55TIME21D	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	J55TIME21S	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	J55TLFBA	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBTRN.	201
*PGM	J55TLFBABF	CLP	JDEFIXES	Process for Aetna Insurance for "ABF".	201
*PGM	J55TLFBASM	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBA.	201
*PGM	J55TLFBAWK	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBA.	201
*PGM	J55TLFBTRN	CLP	JDEFIXES	Process for Aetna Insurance.	201
*PGM	J55TLFO	CLP	JDEFIXES		201
*PGM	J55TLFOB	CLP	JDEFIXES	OPT LIFE INSUR PGM FOR BATCH PROCESSING - HOLD=*NO	201
*PGM	J55TLIFL	CLP	JDEFIXES	New J55TLIFL(8/01/06) writes Report File toPAYLIBs	201
*PGM	J55TLIFLB	CLP	JDEFIXES	New J55TLIFLB(8/01/06) AIG Rept File to PAYLIBS	201
*PGM	J55TM06SM	CLP	JDEFIXES	Batch Timecard Count by Payroll Subgroup for Joan	201
*PGM	J55TPENRR	CLP	JDEFIXES	06-17-2010 modifications	201
*PGM	J55TRN1SM	CLP	JDEFIXES		201
*PGM	J55TRN2	CLP	JDEFIXES		201
*PGM	J55TRN2SM	CLP	JDEFIXES		201
*PGM	J55TRN3SM	CLP	JDEFIXES		201
*PGM	J55TRN4SM	CLP	JDEFIXES		201
*PGM	J55TRN6	CLP	JDEFIXES	Transit DBA Deduction History Report	201
*PGM	J55TRN6SM	CLP	JDEFIXES	Transit DBA Deduction History Report	201
*PGM	J55TRNST	CLP	JDEFIXES	Wageworks Transit Eligibility File	201
*PGM	J55TU46	CLP	JDEFIXES		201
*PGM	J55TU46B	CLP	JDEFIXES	SEIU 73/20 UNION DUES REPT-PRINT HOLD=*NO (BATCH)	201
*PGM	J55TUAFL	CLP	JDEFIXES	AFSCME UNION DUES/PEOPLES COMMITTEE FOR VENDMENX	201
*PGM	J55TUAFLB	CLP	JDEFIXES	AFSCME UNION DUES AND PAC REPORTS - PRINT HOLD=*NO	201
*PGM	J55TUNHSA	CLP	JDEFIXES	TDD-091106-Test-CPYF-mod-for-CCH House Staff Assoc	201
*PGM	J55TUWAY	CLP	JDEFIXES		201
*PGM	J55TUWAYB	CLP	JDEFIXES	UNITED WAY PAYROLL REPORT - PRINT HOLD=*NO (BATCH)	201
*PGM	J55UNLGLCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	201
*PGM	J55UNSM1	CLP	JDEFIXES	Print Union Summary for Local 714 only	201
*PGM	J55UNSM1B	CLP	JDEFIXES	Batch version of J55UNSM1 BATCH-PRINT HOLD=*NO	201
*PGM	J55UNSM2	CLP	JDEFIXES	Print Union Summary for Illinois Nurses Assoc.	201
*PGM	J55UNSM3	CLP	JDEFIXES	Print Union Summary, Hospitals (TD & JOR)	201
*PGM	J55UNSM3B	CLP	JDEFIXES	Batch version of J55UNSM3 BATCH-PRINT Hold=*NO	201
*PGM	J55UNSM4B	CLP	JDEFIXES	Batch version of J55UNSM4 BATCH-PRINT Hold=*NO	201
*PGM	J55UNSM5	CLP	JDEFIXES		201
*PGM	J55UNSM5B	CLP	JDEFIXES		201
*PGM	J55UNSM6	CLP	JDEFIXES	Batch vers. of J55UNSM6 - HOUSE STAFF ASSOC DUES	201
*PGM	J55UNSM6B	CLP	JDEFIXES	Batch vers. of J55UNSM6 - HOUSE STAFF ASSOC DUES	201
*PGM	J55UNSMC	CLP	JDEFIXES	Employee Union Membership	201

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*PGM	J55UNSMDB	CLP	JDEFIXES	Print Doctors Council Union Report (Batch)	201
*PGM	J55UNSMDC	CLP	JDEFIXES	Print Union Summary, Hospitals (TD & JOR)	201
*PGM	J55UNSSMC	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	201
*PGM	J55UNSSMCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	201
*PGM	J55UNSSMH	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	201
*PGM	J55UNSSMHB	CLP	JDEFIXES	Batch version of J55UNSSMH -- JOR	201
*PGM	J55UNSUMC	CLP	JDEFIXES	modified to include DBA 7019 on Mar.9,2007	201
*PGM	J55UNSUMCB	CLP	JDEFIXES	Batch version of J55UNSUMC-JOR,03/09/07 DBA7019	201
*PGM	J55UNSUMH	CLP	JDEFIXES	modified to include DBA 7019 on Mar,9,2007	201
*PGM	J55UNSUMHB	CLP	JDEFIXES	Batch version of J55UNSUMH-JOR,DBA 7019 on 0307	201
*PGM	J55UNWY1	CLP	JDEFIXES	United Way Eligible Employee Donor File for Joan	201
*PGM	J55UPASR	CLP	JDEFIXES	Reference to legacy empl# to fmis empl#	201
*PGM	J55VDSMBC	CLP	JDEFIXES		201
*PGM	J55VDSMBF	CLP	JDEFIXES		201
*PGM	J55VEND3C	CLP	JDEFIXES	New J55VEND3C(08/01/06) AIG REPT FILE TO DOWNLOAD	201
*PGM	J55VEND3CB	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	201
*PGM	J55VEND3CT	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	201
*PGM	J55VEND3F	CLP	JDEFIXES	New J55VEND3F(08/01/06 & 6/4/7) AIG AND A/R READY	201
*PGM	J55VEND3FB	CLP	JDEFIXES	Batch-New J55VEND3FB(08/01/06) AIG REPT FILE-TDD	201
*PGM	J55VEND3HB	CLP	JDEFIXES	Batch-New J55VEND3HB(08/01/06) AIG REPT FILE-TDD	201
*PGM	J55VND03C	CLP	JDEFIXES	HMO/PPO Billing-CORPORATE-A/R ready-6/4/7	201
*PGM	J55VND03F	CLP	JDEFIXES	HMO/PPO BILLS-FPD-A/R READY ON 6/4/7	201
*PGM	J55VND03H	CLP	JDEFIXES	HMO/PPO Billing-HEALTH-A/R Ready-6/4/7	201
*PGM	J55W2FILE	CLP	JDEFIXES	File that maps to SYS1.PANLIB(W2FILEFD01) -- JOR	201
*PGM	J55W2FILSM	CLP	JDEFIXES	Calls J55W2FILE -- JOR	201
*PGM	J55WKCOMPS	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	201
*PGM	J560010	CLP	JDEFIXES	AP Check Extract	201
*PGM	J560010TRN	CLP	JDEFIXES	CUSTOM -- Transfer AP Extract info to mainframe	201
*PGM	J57POS04A	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	201
*PGM	J57POS04B	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	201
*PGM	J57POS04SM	CLP	JDEFIXES	Submit Report - All Positions position exceptions	201
*PGM	J58AR20	CLP	JDEFIXES	JDE AR Home Rule Tax Return Creation for J. Quirke	201
*PGM	J58AR20SM	CLP	JDEFIXES	12/12/2012, added 'TM' to validation list	201
*PGM	J58AR6	CLP	JDEFIXES	Health Billing to the Customer Master for C. Kane	201
*PGM	J58AR7	CLP	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	J58AR7C	CLP	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	J58AR8	CLP	JDEFIXES	compiled	201
*PGM	J58ARRV03S	CLP	JDEFIXES	Health Billing Monthly Process for Carol Kane	201
*PGM	J59COOKC	CLP	JDEFIXES		201
*PGM	J59COOKF	CLP	JDEFIXES		201
*PGM	J69COOKC	CLP	JDEFIXES		201
*PGM	J79COOKC	CLP	JDEFIXES		201

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*PGM	JRPTMNUC	CLP	JDEFIXES		201
*PGM	JRPTMNUF	CLP	JDEFIXES		201
*PGM	JRPTMNUH	CLP	JDEFIXES		201
*PGM	TRVLREIMBR	CLP	JDEFIXES	Create FMLA Cook County BUREAU Of Public Service	201
*PGM	XJ55JBENE	CLP	JDEFIXES		201
*PGM	XJ55JBENES	CLP	JDEFIXES	To see job log.	201
*PGM	P01901	RPG	JDEFIXES	Create Address Book Repository File	201
*PGM	P060101	RPG	JDEFIXES	Custom Basic Employee ---- Initial Entry CompR	201
*PGM	P060111	RPG	JDEFIXES	Custom Basic Employee Data CompR	201
*PGM	P060116EMP	RPG	JDEFIXES		201
*PGM	P060121	RPG	JDEFIXES	CUSTOM Extended Employee - Pay and Tax Info HMc12	201
*PGM	P060161	RPG	JDEFIXES	CUSTOM Extended Employee - Term/Rehire CompR	201
*PGM	P060190	RPG	JDEFIXES	CUSTOM Extended Employee - Dates, Elig & EEO CompR	201
*PGM	P06099	RPG	JDEFIXES	Time and Pay Inquiry	201
*PGM	P061121	RPG	JDEFIXES	Time Entry by Individual	201
*PGM	P061161	RPG	JDEFIXES	Time Entry by Job	201
*PGM	P06116COP	RPG	JDEFIXES		201
*PGM	P06116HLT	RPG	JDEFIXES		201
*PGM	P06116HLZ	RPG	JDEFIXES		201
*PGM	P06116POC	RPG	JDEFIXES		201
*PGM	P061171	RPG	JDEFIXES	Time Entry by Individual w/Equipment	201
*PGM	P061191	RPG	JDEFIXES	Daily Time Card Entry	201
*PGM	P06166ZZ	RPG	JDEFIXES	Changed 04-08-2008 -- JOR	201
*PGM	P062011	RPG	JDEFIXES	Pre-payroll - Gross Pay Deductions	201
*PGM	P062021	RPG	JDEFIXES	FIX Pre-Payroll - Net Deduct & Benefit Calcs c12	201
*PGM	P062031	RPG	JDEFIXES	Pre-payroll - Tax Calculation Work File Build	201
*PGM	P062162	RPG	JDEFIXES	CUSTOM Reset Payroll Lockout c12	201
*PGM	P06230	RPG	JDEFIXES	CUSTOM Print Paychecks c12	201
*PGM	P06231	RPG	JDEFIXES	Report - Print Paychecks	201
*PGM	P06233	RPG	JDEFIXES	CUSTOM Report - Automatic Deposit Advice c12	201
*PGM	P063012	RPG	JDEFIXES	CUSTOM Print - Payroll Register c12	201
*PGM	P063501	RPG	JDEFIXES	Paycheck Work File Build	201
*PGM	P063502	RPG	JDEFIXES	Pre-payroll - Changes Only Check Work File Merge	201
*PGM	P063504	RPG	JDEFIXES	CUSTOM Pay Check Rerun/Restart Control & rset c12	201
*PGM	P06394	RPG	JDEFIXES	CUSTOM Update Future Data to Employee Master HMc12	201
*PGM	P064501	RPG	JDEFIXES	Benefit Accrual Roster	201
*PGM	P064501PTM	RPG	JDEFIXES	Benefit Accrual Roster for J064501PTM	201
*PGM	P06492	RPG	JDEFIXES	FIX0801 - Create Payroll Vouchers	201
*PGM	P06493	RPG	JDEFIXES		201
*PGM	P068314	RPG	JDEFIXES	Illinois Magnetic Media Reporting	201
*PGM	P069021	RPG	JDEFIXES	Table File Rev	201
*PGM	P0801	RPG	JDEFIXES	Employee Master - HR Initial Setup	201

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*PGM	P08101	RPG	JDEFIXES	CUSTOM Update Positions by B.U. -- JOR	201
*PGM	P081011	RPG	JDEFIXES	FIX0301 Position Master Detail	201
*PGM	P08111	RPG	JDEFIXES	FIX - Activity by Position	201
*PGM	P081112	RPG	JDEFIXES	Employee Activity Maintenance	201
*PGM	P081210	RPG	JDEFIXES	CUSTOM Positions by Business Unit -- JOR Fund	201
*PGM	P081810	RPG	JDEFIXES	CUSTOM Employees by Job Type & Step CompR	201
*PGM	P082005	RPG	JDEFIXES	FIXC12 - Build Grade Progression Work Group	201
*PGM	P08334	RPG	JDEFIXES	FIX0301 - Benefit Group Selections	201
*PGM	P08DBA	RPG	JDEFIXES	FIX0301 - Enrollment with Option	201
*PGM	P08DBA2	RPG	JDEFIXES	FIX0301 - Enrollment Detail Window	201
*PGM	P08PS	RPG	JDEFIXES	CUSTOM -- Position Search Window	201
*PGM	P55061121	RPG	JDEFIXES		201
*PGM	P5506116UP	RPG	JDEFIXES		201
*PGM	P550801	RPG	JDEFIXES	Custom- Employee Master - w/ cook co customization	201
*PGM	P55116OFH	RPG	JDEFIXES		201
*PGM	P551211	RPG	JDEFIXES	CCCOPY Inquiry - Review by Batch w/Date RANGE	201
*PGM	P551215	RPG	JDEFIXES	CUSTOM Position (Only) Inquiry	201
*PGM	P551221	RPG	JDEFIXES	CCCOPY Inquiry - Batch Summary by Pay Type RANGE	201
*PGM	P551231	RPG	JDEFIXES	CCCOPY Inquiry - Batch Detail Review RANGE	201
*PGM	P553501	RPG	JDEFIXES	Populate check file into F553501 history	201
*PGM	P556116PGM	RPG	JDEFIXES	Retro Pay Upload Program	201
*PGM	P55ABMCU	RPG	JDEFIXES	FIXES --- YAMCU to ABMCU	201
*PGM	P55ACC02	RPG	JDEFIXES	Accrual Balance Export Program for Joan Quirke	201
*PGM	P55ACC04	RPG	JDEFIXES	O. F. VAC. AND SICK ACCR	201
*PGM	P55ACC05	RPG	JDEFIXES	Sick and Vacation Accrued Liability Report	201
*PGM	P55ACR1	RPG	JDEFIXES	Employee Absence by Category Report for Joan	201
*PGM	P55ACR1A	RPG	JDEFIXES	Employee Absence by Category Report for Joan	201
*PGM	P55ACR1B	RPG	JDEFIXES	Employee Absence by Category Report for Joan	201
*PGM	P55ACTRL	RPG	JDEFIXES	Create Animal Control JDF File	201
*PGM	P55AGEUP	RPG	JDEFIXES		201
*PGM	P55ALPHA	RPG	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP	201
*PGM	P55AM1A	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	201
*PGM	P55AM1L	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	201
*PGM	P55AM1M	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	201
*PGM	P55ASC30	RPG	JDEFIXES	Novatime Employee Master Download File for Joan Q.	201
*PGM	P55ASC31	RPG	JDEFIXES	08-25-2008, new balance file -- JOR	201
*PGM	P55BDEP	RPG	JDEFIXES		201
*PGM	P55BEMPD	RPG	JDEFIXES		201
*PGM	P55BEMPDV	RPG	JDEFIXES		201
*PGM	P55BEMPH	RPG	JDEFIXES		201
*PGM	P55BPEN	RPG	JDEFIXES	07/20/2012 process YAFICM	201
*PGM	P55BPENY	RPG	JDEFIXES	12-29-2010 new -- JOR **********	201

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*PGM	P55CUSTP1	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	P55DATE01	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	201
*PGM	P55DATE02	RPG	JDEFIXES	Make control record for main frame -- JOR	201
*PGM	P55DATER1	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	201
*PGM	P55EACM1	RPG	JDEFIXES	05-25-2010 Modification.	201
*PGM	P55EACR1	RPG	JDEFIXES	Transfers-Only Download Report File for Joan	201
*PGM	P55EDSTR1	RPG	JDEFIXES	03-14-2011, for new pension DBA's	201
*PGM	P55EDSTR2	RPG	JDEFIXES	03-14-2011, for new pension DBA's	201
*PGM	P55EDSTR2A	RPG	JDEFIXES	Revenue Account Groups Summary Report -- JOR	201
*PGM	P55EMPDPHL	RPG	JDEFIXES	HLT & DPH Union Employees Report	201
*PGM	P55EXC01	RPG	JDEFIXES	Copied from P55EXCSAVE on April 9, 2001 -- JOR	201
*PGM	P55EXC02	RPG	JDEFIXES	Payroll exception reports, override amounts -- JOR	201
*PGM	P55EXC03	RPG	JDEFIXES	Payroll exception, days worked outside py-pd - JOR	201
*PGM	P55EXC04	RPG	JDEFIXES	Payroll exceptions, Check standard hours -- JOR	201
*PGM	P55EXC05	RPG	JDEFIXES	Update object account for Non-110 -- JOR	201
*PGM	P55EXC05B	RPG	JDEFIXES	Aquire the fiscal year for a company	201
*PGM	P55F04572W	RPG	JDEFIXES		201
*PGM	P55F060118	RPG	JDEFIXES	FIXES --- Sync F060118 to F060116	201
*PGM	P55F0618SM	RPG	JDEFIXES		201
*PGM	P55F4301	RPG	JDEFIXES		201
*PGM	P55F4311	RPG	JDEFIXES		201
*PGM	P55FLSA	RPG	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke	201
*PGM	P55FLXSP	RPG	JDEFIXES	Update Flex Spending Annual Amount	201
*PGM	P55FUND01R	RPG	JDEFIXES		201
*PGM	P55GARN01	RPG	JDEFIXES	Report - garnishments and <80 hrs paid	201
*PGM	P55HCR02	RPG	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	201
*PGM	P55HCR03	RPG	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	201
*PGM	P55HCR03A	RPG	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	201
*PGM	P55HCR04	RPG	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	201
*PGM	P55HCR05	RPG	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	201
*PGM	P55HCR12	RPG	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR	201
*PGM	P55HCR13	RPG	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR	201
*PGM	P55HCR13A	RPG	JDEFIXES	05-06-2009, compile only -- JOR	201
*PGM	P55HCR14	RPG	JDEFIXES		201
*PGM	P55HCR14A	RPG	JDEFIXES	3/23/2011, show sign on amounts, hours.	201
*PGM	P55HCR14B	RPG	JDEFIXES	3/23/2011, show sign on amounts, hours.	201
*PGM	P55HCR14C	RPG	JDEFIXES	CALCULATE THE FISCAL YEAR WORK DATE RANGE	201
*PGM	P55HCRX1	RPG	JDEFIXES	Health Summary Earning Register Download File	201
*PGM	P55HCRXX	RPG	JDEFIXES	Health Summary Earning Register Download File	201
*PGM	P55HCSC	RPG	JDEFIXES	11/30/2012 insurance enrollment -- JOR	201
*PGM	P55HLTENRL	RPG	JDEFIXES	Health Deduction Rate Customization	201
*PGM	P55HMOE	RPG	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke	201

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*PGM	P55HMOS	RPG	JDEFIXES	Enroll Employee HMO Health Plan for Joan Quirke	201
*PGM	P55INVP	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	P55INVP1	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	201
*PGM	P55JUD04	RPG	JDEFIXES	Judges' Supplemental Payroll for Don Fronk -- JOR	201
*PGM	P55MET1	RPG	JDEFIXES	Master Employee Table for Patel	201
*PGM	P55NATDRC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	201
*PGM	P55NATDRH	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	201
*PGM	P55NATDRN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	201
*PGM	P55NFR3	RPG	JDEFIXES		201
*PGM	P55NFRC1	RPG	JDEFIXES		201
*PGM	P55NFRMB	RPG	JDEFIXES		201
*PGM	P55PEM1	RPG	JDEFIXES	Single Plan Entry Maintenance Screen for Joan	201
*PGM	P55PEN2	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	201
*PGM	P55PEN2A	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	201
*PGM	P55PEN2R	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	201
*PGM	P55PENS01	RPG	JDEFIXES	Missing pension deductions for D. Fronk & S. Molis	201
*PGM	P55PENSUPD	RPG	JDEFIXES	10/26/2012, use STRTDTE, ENDDTE	201
*PGM	P55PHYP	RPG	JDEFIXES		201
*PGM	P55PHYP1	RPG	JDEFIXES		201
*PGM	P55PHYPD	RPG	JDEFIXES		201
*PGM	P55PHYPF	RPG	JDEFIXES		201
*PGM	P55PHYPH	RPG	JDEFIXES		201
*PGM	P55POS01	RPG	JDEFIXES	Report - Open Positions Revised 6/5/2003 D SHAH	201
*PGM	P55POS02	RPG	JDEFIXES	Report - All Positions	201
*PGM	P55POS03	RPG	JDEFIXES	Report - All Positions with budget $	201
*PGM	P55POS04	RPG	JDEFIXES	Report - All Positions with budget $ and bu totals	201
*PGM	P55POS05	RPG	JDEFIXES	Report - All Positions, position exceptions	201
*PGM	P55POS06	RPG	JDEFIXES	Report - All Positions inc step	201
*PGM	P55POS07	RPG	JDEFIXES	Report - All Positions inc step & rate	201
*PGM	P55POS08	RPG	JDEFIXES	Report - All Positions sort by title	201
*PGM	P55POS09	RPG	JDEFIXES	Report - All Positions sort by grade, title	201
*PGM	P55POS12	RPG	JDEFIXES	Report - All Positions sort by jobcode	201
*PGM	P55POS13	RPG	JDEFIXES	Report - position exceptions only	201
*PGM	P55POS16	RPG	JDEFIXES	Report - All Positions, position exc dpt, alpha	201
*PGM	P55POS17	RPG	JDEFIXES	Report - All Positions, position except inc/L	201
*PGM	P55POS18	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (Match)	201
*PGM	P55POS19	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (NEGATIVES)	201
*PGM	P55POS20	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (POSITIVES)	201
*PGM	P55POS21	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (All)	201
*PGM	P55POS24	RPG	JDEFIXES	Create download file	201
*PGM	P55POS33	RPG	JDEFIXES	Report - Open Positions by Job Code	201
*PGM	P55POS34	RPG	JDEFIXES	Open POS sort by HBU and Jobcd	201

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*PGM	P55POS35	RPG	JDEFIXES	Open POS sort by Dpt and Jobcd	201
*PGM	P55POSB03	RPG	JDEFIXES	Calls X55LONG -- recompile after X55LONG -- JOR	201
*PGM	P55PPLGL1	RPG	JDEFIXES	Report Deductions for Pre-Paid Legal -- JOR	201
*PGM	P55PPR02	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR02A	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR02B	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR02C	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR02D	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR02E	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	201
*PGM	P55PPR3A	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	P55PPR3B	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	P55PPR3C	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	P55PPR3D	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	201
*PGM	P55PTM03	RPG	JDEFIXES	Part Time Health and Accrual DBA Rate Update, Joan	201
*PGM	P55T743B	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	201
*PGM	P55TBOND	RPG	JDEFIXES		201
*PGM	P55TCALI	RPG	JDEFIXES	Califiornia Nurses Union processing	201
*PGM	P55TCAPTUR	RPG	JDEFIXES	Capture DBA info for input to tapes by payroll	201
*PGM	P55TDCL	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	201
*PGM	P55TDEF	RPG	JDEFIXES	Deferred Compensation Tape and Reports	201
*PGM	P55TFLXG	RPG	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	201
*PGM	P55TFLXH	RPG	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	201
*PGM	P55THIK	RPG	JDEFIXES	Health insurance billings -- JOR	201
*PGM	P55THIKA	RPG	JDEFIXES	Health insurance billings -- JOR	201
*PGM	P55TIER1	RPG	JDEFIXES	Incorrect Health Tier Enrollment Report for Joan	201
*PGM	P55TIER2	RPG	JDEFIXES	Incorrect Dental/Vision Enrollment for Joan Quirke	201
*PGM	P55TIME01	RPG	JDEFIXES	** Report - Timecard Batch Detail & Totals	201
*PGM	P55TIME02	RPG	JDEFIXES	Report - Timecard Standard Hours	201
*PGM	P55TIME04	RPG	JDEFIXES	** Report - Timecard Batch Detail & Totals	201
*PGM	P55TIME20	RPG	JDEFIXES	Health Timecard Detail by Employee	201
*PGM	P55TIME21	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	P55TIME21A	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	P55TIME21B	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	P55TIME21C	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	201
*PGM	P55TLFBD	RPG	JDEFIXES	Set up start and stop dates for J55TLFBA	201
*PGM	P55TLFO	RPG	JDEFIXES	Modified for AETNA (06-27-2006)	201
*PGM	P55TLIF	RPG	JDEFIXES	Report and tape layout for life insurance	201
*PGM	P55TPENZ	RPG	JDEFIXES		201
*PGM	P55TRN1	RPG	JDEFIXES	Source code changed 01-09-2008.	201
*PGM	P55TRN2A	RPG	JDEFIXES		201
*PGM	P55TRN2B	RPG	JDEFIXES	To use date from screen instead of YMPTDT.	201
*PGM	P55TRN6	RPG	JDEFIXES	Transit DBA Deduction History Report	201

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*PGM	P55TRNSK	RPG	JDEFIXES	Wageworks Transit Eligibility File	201
*PGM	P55TRNST	RPG	JDEFIXES	04/05/2012 -- test for: YAK009 <> 'Y' -- JOR	201
*PGM	P55TSSN	RPG	JDEFIXES	12-29-2010 level check -- JOR **********	201
*PGM	P55TU46	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	201
*PGM	P55TUAF	RPG	JDEFIXES	AFSCME new 186 Record Layout for Union dues(6/6/8)	201
*PGM	P55TUAF2	RPG	JDEFIXES	AFSCME new 186 char record for Peoples/PAC(6/6/08)	201
*PGM	P55TUWAY	RPG	JDEFIXES		201
*PGM	P55UNHSA	RPG	JDEFIXES	CCH House Staff Assoc. Union Membership File	201
*PGM	P55UNLGLC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	201
*PGM	P55UNLGLN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	201
*PGM	P55UNSM1	RPG	JDEFIXES	Print Union Summary for Local 714 only	201
*PGM	P55UNSM2	RPG	JDEFIXES	Print Union Summary for Ind. Nurses Assoc.	201
*PGM	P55UNSM3	RPG	JDEFIXES	Print Union Summary, SEIU 73 and 20(TD and JOR)	201
*PGM	P55UNSM4	RPG	JDEFIXES	Print Union Summary, Newspaper Guild (TD & JOR)	201
*PGM	P55UNSM5	RPG	JDEFIXES		201
*PGM	P55UNSM6	RPG	JDEFIXES	House Staff Assoc dues rept by Emp Name (street)	201
*PGM	P55UNSMC	RPG	JDEFIXES	Employee Union Membership	201
*PGM	P55UNSMDC	RPG	JDEFIXES	Union Summary, Doctors Council of SEIU20 12/12/08	201
*PGM	P55UNSMM	RPG	JDEFIXES	Print Cook County Union Employees Summary	201
*PGM	P55UNSSMC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	201
*PGM	P55UNSSMH	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Hospitals	201
*PGM	P55UNSSMN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	201
*PGM	P55UNSUM	RPG	JDEFIXES	Print Cook County Union Employees Summary- 7019 OK	201
*PGM	P55UNSUMH	RPG	JDEFIXES	Print Cook County Union Employees Summary- 7019 OK	201
*PGM	P55UNWY1	RPG	JDEFIXES	United Way Eligible Employee Donor File for Joan	201
*PGM	P55UP82105	RPG	JDEFIXES	CUSTOM -- Update Payroll WW -- selection (date)	201
*PGM	P55W2FILE	RPG	JDEFIXES		201
*PGM	P55YAEST	RPG	JDEFIXES	FIXES --- Update YAEST	201
*PGM	P55YAHMCO	RPG	JDEFIXES	FIXES - Update YAHMCU from MCMCO	201
*PGM	P55YAP011	RPG	JDEFIXES	FIXES --- Update YAP011 from MCRP11 (Sub Group)	201
*PGM	P560001DLT	RPG	JDEFIXES	Delete records more than 14 days old -- JOR	201
*PGM	P560004	RPG	JDEFIXES	FTP Processing File for Reporting Transfers	201
*PGM	P560004RPT	RPG	JDEFIXES	Report which payroll libraries have been FTP'd-JOR	201
*PGM	P560010	RPG	JDEFIXES	Create check extract file (F560001) for funding re	201
*PGM	P56FP01DLT	RPG	JDEFIXES	Delete records more than 14 days old -- JOR	201
*PGM	P56FTP2	RPG	JDEFIXES	FTP validation program	201
*PGM	P57POS04A	RPG	JDEFIXES	Report - All Positions with budget $ and bu totals	201
*PGM	P57POS04B	RPG	JDEFIXES	Report - Open Positions Revised 6/5/2003 D SHAH	201
*PGM	P58AR20	RPG	JDEFIXES	12/12/2012, added 'TM' to validation list	201
*PGM	P58AR20A	RPG	JDEFIXES	JDE AR Home Rule Tax Return Creation for J. Quirke	201
*PGM	P58AR6	RPG	JDEFIXES	Health Billing to the Customer Master for C. Kane	201
*PGM	P58AR7	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201

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*PGM	P58AR7A	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	P58AR7C	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	P58AR7CA	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	P58AR7CR	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	P58AR7U	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	201
*PGM	P58AR8	RPG	JDEFIXES	Does F55THIK.	201
*PGM	P59COOKC	RPG	JDEFIXES		201
*PGM	P69COOKC	RPG	JDEFIXES		201
*PGM	P79COOKC	RPG	JDEFIXES		201
*PGM	P98CLOPTM	RPG	JDEFIXES	Benefit Accrual Roster more than 10 PDBA's	201
*PGM	X060116	RPG	JDEFIXES	CUSTOM Update Employee Master c12	201
*PGM	X06390	RPG	JDEFIXES	Calculate Rollover Balance	201
*PGM	X06391	RPG	JDEFIXES	Calculate Rollover Bal	201
*PGM	X0639PTM	RPG	JDEFIXES	Benefit Accrual Roster for J064501PTM	201
*PGM	X08101	RPG	JDEFIXES	Projected at Year End Values Server - Limit Check	201
*PGM	X081011	RPG	JDEFIXES	FIX0301 - PER% of Yr Position Occupied By Emp	201
*PGM	X08102	RPG	JDEFIXES	FIX0301 - Position Budget Edit Server	201
*PGM	X55ALPH	RPG	JDEFIXES	Parse YAALPH for Last, First Name & Initial -- JOR	201
*PGM	X55LONG	RPG	JDEFIXES	Changed 07-13-2009 -- JOR (YADTSF : 109335)	201
*PGM	XP55JBENE	RPG	JDEFIXES	Outputs XF55JBEN.	201
*PGM	XP55JBENF	RPG	JDEFIXES	Jan. 23, 2009.	201
*PGM	XP55JRPTS	RPG	JDEFIXES	Jan. 23, 2009.	201
*PGM	XS0101	RPG	JDEFIXES		201

This is a listing of known custom or modify files used in Client's JD Edwards World A73. These objects are limited to objects with an unknown last date used.

Type	Name	Attribute	Library	Description
*PGM	P55COMP97	CBL	JDEFIXES	Compare - To Legacy step7 health dental vision JOR
*PGM	P55COMP98	CBL	JDEFIXES	Compare - To Legacy step8 deferred comp -- JOR
*PGM	P55FS218	CBL	JDEFIXES	Updt CORP Sal-Hist(F0618)Hrs/Rates by Blending Hrs
*PGM	P55FUND05	CBL	JDEFIXES	Show discrepancies between GL and AP -- JOR
*PGM	P55FX218	CBL	JDEFIXES	Update CORP Salary Hist(F0618)Hrs/Rates
*PGM	P55PPR01C	CBL	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke
*PGM	P55RM330	CBL	JDEFIXES	Universal Life Eligibility Tape -- JOR
*PGM	P55TLFB	CBL	JDEFIXES	Create Tape Layout for Basic Life Ins
*PGM	P55TLFBTD	CBL	JDEFIXES	Create Tape Layout for Basic Life Ins
*PGM	P55TUNIC	CBL	JDEFIXES	Tape & Report - Union Employees AFCME
*PGM	ACCRUDMIS	CLP	JDEFIXES	Create Cook County MIS EMPL ACCRUED PPD
*PGM	ACCRYALBPS	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service
*PGM	F04DDEPTRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe
*PGM	F04PAYDATE	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe
*PGM	F04PAYTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe

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*PGM	F55116CMK5	CLP	JDEFIXES	Upload Timecards - CCCMK CLEAR WORKFILE	Unk
*PGM	HBARCODE	CLP	JDEFIXES		Unk
*PGM	J06116SBM	CLP	JDEFIXES		Unk
*PGM	J068301	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	Unk
*PGM	J55ACC01	CLP	JDEFIXES	CREATE OAK FORREST HOSP VAC + SICK ACCRUALS JOR	Unk
*PGM	J55ACC03	CLP	JDEFIXES	12/20/00, O. F. VAC AND SICK ACCR USES DDS -- JOR	Unk
*PGM	J55ACC03S	CLP	JDEFIXES	12-20-00, O. F. VAC. AND SICK ACCR USES DDS -- JOR	Unk
*PGM	J55ACT01	CLP	JDEFIXES	FOREST PRESERVE pension actuary table -- JOR	Unk
*PGM	J55AC01TRN	CLP	JDEFIXES	CUSTOM -- Transfer OFACRUAL using FTP	Unk
*PGM	J55ASC00	CLP	JDEFIXES		Unk
*PGM	J55BEFPD	CLP	JDEFIXES		Unk
*PGM	J55BEFPDY	CLP	JDEFIXES		Unk
*PGM	J55BEMP	CLP	JDEFIXES	Update Employee New Benefit Enrollment File	Unk
*PGM	J55BEMPL	CLP	JDEFIXES	Update F06106 DBA's for New Benefit Plan	Unk
*PGM	J55BEMPP	CLP	JDEFIXES	Update F06106 DBA's for New Benefit Plan	Unk
*PGM	J55BENQRYS	CLP	JDEFIXES	QRYSs to be run periodically to check benefits	Unk
*PGM	J55BUSU200	CLP	JDEFIXES	Create Dept200 File	Unk
*PGM	J55CHSUP	CLP	JDEFIXES		Unk
*PGM	J55COCEMPF	CLP	JDEFIXES	Create Cook County CLERK Emp MastFile	Unk
*PGM	J55COMPCOR	CLP	JDEFIXES	Compares for COR	Unk
*PGM	J55COMPHLT	CLP	JDEFIXES	Compares for HLT	Unk
*PGM	J55COMP88	CLP	JDEFIXES	Compare - To Legacy, Universal Life Ded -- JOR	Unk
*PGM	J55COMP89	CLP	JDEFIXES	COMPARE - Position f060116 to f08101 for FY	Unk
*PGM	J55COMP91H	CLP	JDEFIXES	HIDEare - To Legacy step1, Fixed Life Ded -- JOR	Unk
*PGM	J55COMP92H	CLP	JDEFIXES	HIDEare - To Legacy MARITAL STATUS	Unk
*PGM	J55COMP93H	CLP	JDEFIXES	HIDEARE - TO legacy step3 rate,grd,stp,job,hmcu	Unk
*PGM	J55COMP94H	CLP	JDEFIXES	HIDEARE - TO legacy step4 four dates -- JOR	Unk
*PGM	J55COMP95H	CLP	JDEFIXES	HIDEARE - TO legacy step5 address, phone # -- JOR	Unk
*PGM	J55COMP96H	CLP	JDEFIXES	HIDEARE - TO legacy step6 union code, rate -- JOR	Unk
*PGM	J55COMP97H	CLP	JDEFIXES	HIDEARE - TO legacy step7 insurance plans -- JOR	Unk
*PGM	J55COMP97T	CLP	JDEFIXES	test of J55Comp97 -- JOR	Unk
*PGM	J55COMP98H	CLP	JDEFIXES	HIDEARE - TO legacy step8 Defferred Comp -- JOR	Unk
*PGM	J55CONVAMB	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	Unk
*PGM	J55CONVCCH	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	Unk
*PGM	J55CONVCH1	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	Unk
*PGM	J55CONVCRE	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	Unk
*PGM	J55CONVHLT	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	Unk
*PGM	J55CONVPMC	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	Unk
*PGM	J55CUMUP	CLP	JDEFIXES		Unk
*PGM	J55DATE3	CLP	JDEFIXES	Decrement or increment a date by number of months	Unk
*PGM	J55DEPTXX0	CLP	JDEFIXES	Health Cost Report -- Overtime Summary by Employee	Unk
*PGM	J55DEPT040	CLP	JDEFIXES		Unk

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*PGM	J55DFSMB	CLP	JDEFIXES	problem	Unk
*PGM	J55DUPDBAS	CLP	JDEFIXES	Submit job to crrect duplicate DBA's inF06106	Unk
*PGM	J55EARNS	CLP	JDEFIXES	create selective earnings (Overtime) report	Unk
*PGM	J55EDITSPO	CLP	JDEFIXES	Edits/Fixes to be run periodically PO	Unk
*PGM	J55EDSTR2T	CLP	JDEFIXES	Revenue Account Groups Summary Report	Unk
*PGM	J55EDSTR3	CLP	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	Unk
*PGM	J55EDSTR4	CLP	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	Unk
*PGM	J55EECONV	CLP	JDEFIXES	File Clean-up for Master files and HRMS tables	Unk
*PGM	J55ELG01	CLP	JDEFIXES	Eligibility report for Brian Goggin -- JOR	Unk
*PGM	J55ELG02	CLP	JDEFIXES	Pension disk & report for Brian Goggin -- JOR	Unk
*PGM	J55ELG03	CLP	JDEFIXES	Eligibility w grade 20+ for Brian Goggin -- JOR	Unk
*PGM	J55EMPLFUR	CLP	JDEFIXES	Employee Furlough Report	Unk
*PGM	J55EMPSHR	CLP	JDEFIXES		Unk
*PGM	J55FIXASBM	CLP	JDEFIXES		Unk
*PGM	J55FIXASBX	CLP	JDEFIXES		Unk
*PGM	J55FIXA00	CLP	JDEFIXES		Unk
*PGM	J55FIXSEQ	CLP	JDEFIXES	Update HPDL02 in F08101 -- JOR	Unk
*PGM	J55FIX136A	CLP	JDEFIXES	FIXES --- Combine tax records F06136L8 -- JOR	Unk
*PGM	J55FLXPF	CLP	JDEFIXES		Unk
*PGM	J55FLXTRNT	CLP	JDEFIXES	Test of J55FLXTRN -- JOR	Unk
*PGM	J55FLXTRN1	CLP	JDEFIXES	Replaces J55FLXTRN, 03-21-2003 -- JOR	Unk
*PGM	J55FOINF	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	J55FPDP	CLP	JDEFIXES	Create File Layout for FPD Empl Pension	Unk
*PGM	J55FPDPTRN	CLP	JDEFIXES	Transfer FPD PEN using FTP	Unk
*PGM	J55FUNDTN5	CLP	JDEFIXES	CUSTOM -- Transfer FUND ERRORS using FTP	Unk
*PGM	J55FUND05	CLP	JDEFIXES	Show where gl fund does not match ap fund -- JOR	Unk
*PGM	J55F0618SM	CLP	JDEFIXES		Unk
*PGM	J55GL04	CLP	JDEFIXES	Create - Contra Amounts from IT, ST, HI, OV	Unk
*PGM	J55GL04SBM	CLP	JDEFIXES		Unk
*PGM	J55HCR00	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	Unk
*PGM	J55HCR01	CLP	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	Unk
*PGM	J55HIGH01	CLP	JDEFIXES	Highways overtime report for Don Fronk -- JOR	Unk
*PGM	J55HIST01	CLP	JDEFIXES	Do History Load to get Error reports by PP	Unk
*PGM	J55HMODED	CLP	JDEFIXES	Non-union Employees Enrolled in HMO Medical Plan	Unk
*PGM	J55HQEFST	CLP	JDEFIXES	Duplicated Effective Thru Dates(F08111)	Unk
*PGM	J55HR330TP	CLP	JDEFIXES	CUSTOM -- Transfer Census using FTP	Unk
*PGM	J55HYWEMPF	CLP	JDEFIXES	Create Cook County HYW EMP MAST FILE	Unk
*PGM	J55JDE1	CLP	JDEFIXES	FPD Time Sheets Source	Unk
*PGM	J55JMEEOJ	CLP	JDEFIXES		Unk
*PGM	J55JOECOMB	CLP	JDEFIXES	MISPRT10 for ALL COMP93 COMP96 and COMP94	Unk
*PGM	J55JOECORM	CLP	JDEFIXES	misprt10 for COR except COMP93, COMP96 and COMP94	Unk
*PGM	J55JOEHLTM	CLP	JDEFIXES	misprt10 for HLT except COMP93 COMP96 and COMP94	Unk

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*PGM	J55JUD01	CLP	JDEFIXES	Judges - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	J55JUD02	CLP	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	J55JUD03	CLP	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	J55LFLX	CLP	JDEFIXES	Labels for people in flex program -- JOR	Unk
*PGM	J55MASRT	CLP	JDEFIXES		Unk
*PGM	J55MASSC	CLP	JDEFIXES		Unk
*PGM	J55MVSRCS3	CLP	JDEFIXES	Step 2 - restore source to SRCHOLD for holding	Unk
*PGM	J55MVSRC3A	CLP	JDEFIXES	STEP 3A - Compile members from JDEXTST	Unk
*PGM	J55MVSRC4A	CLP	JDEFIXES	Step 4 - Move from JDEFXTST to JDEFIXES	Unk
*PGM	J55NA001	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST SELECT ZIPCODE JOR	Unk
*PGM	J55NA002	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST, ALL EMPLOYEES JOR	Unk
*PGM	J55NA003	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FILE, NAMES SPLIT - JOR	Unk
*PGM	J55NA004	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FLOPPY BY ZIPCODE - JOR	Unk
*PGM	J55NA005	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A list BY ZIPCODE - JOR	Unk
*PGM	J55NA006	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FILE, all zips - JOR	Unk
*PGM	J55NA007	CLP	JDEFIXES	Charity cards for FOREST PRESERVE -- JOR	Unk
*PGM	J55NA008	CLP	JDEFIXES	Freedom of Information Reports for WGN -- JOR	Unk
*PGM	J55NA009	CLP	JDEFIXES	List of FP employees by job code -- JOR	Unk
*PGM	J55NA010	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST SELECT ZIPCODE JOR	Unk
*PGM	J55NA011	CLP	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	Unk
*PGM	J55NHR1	CLP	JDEFIXES	New-Hire Reporting (W4 File)	Unk
*PGM	J55OAKF	CLP	JDEFIXES		Unk
*PGM	J55OFHBUER	CLP	JDEFIXES	Create Cook County CLERK Emp MastFile	Unk
*PGM	J55OFHERBU	CLP	JDEFIXES	'SUBMIT J55OFHBUER PHASE1Q	Unk
*PGM	J55OPTOUT	CLP	JDEFIXES	Union Employees in WVRCTYSP Plan	Unk
*PGM	J55OT001	CLP	JDEFIXES	10% and 25% overtime reports for Molis/Fronk - JOR	Unk
*PGM	J55PAYDOWN	CLP	JDEFIXES	CUSTOM -- Create Extra Payroll Reports & downloads	Unk
*PGM	J55PAYMON	CLP	JDEFIXES	CUSTOM -- Create Monthly Payroll Reports&Downloads	Unk
*PGM	J55PAYRPT	CLP	JDEFIXES	REPORT only does not move to Downloads	Unk
*PGM	J55PBDEF	CLP	JDEFIXES	Create Public Defender's Office Employee File	Unk
*PGM	J55PBDEFR	CLP	JDEFIXES	Create Public Defender's Office Employee File	Unk
*PGM	J55PFY01	CLP	JDEFIXES	Upload positions FY01 - Budget -- JOR&SH	Unk
*PGM	J55PFY01F	CLP	JDEFIXES	FPD -- upload positions - Budget -- JOR	Unk
*PGM	J55PFY04	CLP	JDEFIXES	Mid-Year Budget Revisions -- JOR	Unk
*PGM	J55PHIST	CLP	JDEFIXES		Unk
*PGM	J55PHISTSB	CLP	JDEFIXES		Unk
*PGM	J55POSB01	CLP	JDEFIXES	Update - Budget Prep 110 records for F081012	Unk
*PGM	J55POSB02	CLP	JDEFIXES	Update - Budget Prep 110 records for F081012 del	Unk
*PGM	J55POSB02S	CLP	JDEFIXES	Submit Update - Budget prep delete records	Unk
*PGM	J55POSB04	CLP	JDEFIXES	Update - Salary Forecast date in F060116/F060118	Unk
*PGM	J55POSN18S	CLP	JDEFIXES	Report - match for FPD -- JOR	Unk
*PGM	J55POSN19S	CLP	JDEFIXES	Report - Negatives for FPD -- JOR	Unk

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*PGM	J55POSN20S	CLP	JDEFIXES	Report - positives for FPD -- JOR	Unk
*PGM	J55POSQRYS	CLP	JDEFIXES	Edits to be run periodically Position Budgets	Unk
*PGM	J55POS25	CLP	JDEFIXES	Update - Grade/Step in F08101 from F060116	Unk
*PGM	J55POS31	CLP	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	Unk
*PGM	J55POS31SM	CLP	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	Unk
*PGM	J55POS32	CLP	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	Unk
*PGM	J55POS32SM	CLP	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	Unk
*PGM	J55PPLGL1	CLP	JDEFIXES	Report Deductions for Pre-Paid Legal	Unk
*PGM	J55PPLGL1S	CLP	JDEFIXES	Report Deductions for Pre-Paid Legal -- JOR	Unk
*PGM	J55PPR01	CLP	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	Unk
*PGM	J55PPR01SM	CLP	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	Unk
*PGM	J55REBLD	CLP	JDEFIXES	Encumbrance exception report -- JOR	Unk
*PGM	J55REDO02C	CLP	JDEFIXES	History Load Redo - pick up missing records SSN#	Unk
*PGM	J55REDO02H	CLP	JDEFIXES	History Load Redo - pick up missing records SSN#	Unk
*PGM	J55REDO33C	CLP	JDEFIXES	History Load Redo - missing additional taxes	Unk
*PGM	J55RETRO01	CLP	JDEFIXES	Retro pay selection -- JOR	Unk
*PGM	J55RM330	CLP	JDEFIXES	Universal Life Eligibility Tape -- JOR	Unk
*PGM	J55RSPRODB	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	Unk
*PGM	J55RSPRODP	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	Unk
*PGM	J55RSTCOM	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	Unk
*PGM	J55RSTSRC	CLP	JDEFIXES	Step 2 - restore source to SRCHOLD for holding	Unk
*PGM	J55SEIUF	CLP	JDEFIXES	06-17-2010 modifications	Unk
*PGM	J55SSNCOR	CLP	JDEFIXES	Run missing SSN for COR PP01 thru PP23	Unk
*PGM	J55SSNHLT	CLP	JDEFIXES	Run missing SSN for COR PP01 thru PP23	Unk
*PGM	J55SVFIXES	CLP	JDEFIXES	Save JDEFIXES librariy	Unk
*PGM	J55SVPCOM	CLP	JDEFIXES	Save COMDTAPROD and COMSECPROD libraries	Unk
*PGM	J55SVPRODB	CLP	JDEFIXES	Save PRODBDTA Libraries	Unk
*PGM	J55SVPRODP	CLP	JDEFIXES	Save PRODPDTA Libraries	Unk
*PGM	J55TBEN3	CLP	JDEFIXES	Insurance Cost Reports for Individual User -- JOR	Unk
*PGM	J55TDEFLBT	CLP	JDEFIXES	Batch version of J553501C-Writes rept files to V:/	Unk
*PGM	J55TDEFLO	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC	Unk
*PGM	J55TDEFLOO	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	Unk
*PGM	J55TDEFLOT	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	Unk
*PGM	J55TDEFLTD	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	Unk
*PGM	J55TDNT	CLP	JDEFIXES		Unk
*PGM	J55TESTQF1	CLP	JDEFIXES	Educational -- samples of OPNQRYF -- JOR	Unk
*PGM	J55TESTSPL	CLP	JDEFIXES	Educational -- samples of CPYSPLF -- JOR	Unk
*PGM	J55TFLX	CLP	JDEFIXES	Create tape Layout for Flexible benefits	Unk
*PGM	J55TFLXGC	CLP	JDEFIXES		Unk
*PGM	J55TFLXGS	CLP	JDEFIXES	FTP Flexible Spending to WageWorks -- JOR	Unk
*PGM	J55TFLXT	CLP	JDEFIXES	To test J55TFLX, delete when done -- JOR	Unk
*PGM	J55THIBTDD	CLP	JDEFIXES	Health insurance billings-Sorted by Dept-Old Empno	Unk

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*PGM	J55TIME01D	CLP	JDEFIXES	Report - Timecard Batch Detail & Totals	Unk
*PGM	J55TIME03	CLP	JDEFIXES	Commented report put back in -- DG&JOR	Unk
*PGM	J55TIME03S	CLP	JDEFIXES	Commented report put back in -- DG&JOR	Unk
*PGM	J55TIME05	CLP	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	Unk
*PGM	J55TIME05S	CLP	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	Unk
*PGM	J55TIME90	CLP	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	Unk
*PGM	J55TIME90S	CLP	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	Unk
*PGM	J55TLFB	CLP	JDEFIXES	Create tape Layout for Basic Life Insurance	Unk
*PGM	J55TLFBTD	CLP	JDEFIXES	Create tape Layout for Basic Life Insurance	Unk
*PGM	J55TLFOTD	CLP	JDEFIXES	TDD-8/25/06-AETNA LOADS PP10-17 CPYF DOWNLOAD &FTP	Unk
*PGM	J55TLFOTRN	CLP	JDEFIXES	Process for Aetna Optional Insurance.	Unk
*PGM	J55TLIF	CLP	JDEFIXES	Obsolete, use J55TLIFL instead.	Unk
*PGM	J55TLIFLBJ	CLP	JDEFIXES	TEST J55TLIFLB (07/26) AIG REPORT FILE TO PAYLIB#	Unk
*PGM	J55TLIFLJ	CLP	JDEFIXES	TEST J55TLIFL (07/25) FOR REPORT FILE TO PAYLIB#	Unk
*PGM	J55TPEN	CLP	JDEFIXES		Unk
*PGM	J55TPENC	CLP	JDEFIXES	Create File Layout for Corprate Empl Pension	Unk
*PGM	J55TPENF	CLP	JDEFIXES	Create File Layout for Corprate Empl Pension	Unk
*PGM	J55TPENH	CLP	JDEFIXES	Create File Layout for Hospital Empl Pension	Unk
*PGM	J55TPENLBT	CLP	JDEFIXES	PENSION REPORTING - BATCH PIRNT HOLD = *NO	Unk
*PGM	J55TPENT	CLP	JDEFIXES		Unk
*PGM	J55TPENY	CLP	JDEFIXES	06-17-2010 modifications	Unk
*PGM	J55TPEN15B	CLP	JDEFIXES	Like J55TPENL, but FTP (PROD BKP 5/27/10)	Unk
*PGM	J55TPEN15T	CLP	JDEFIXES	Like J55TPENL, but FMLA UNPAID Test pgm.(5/27/10	Unk
*PGM	J55TPPO	CLP	JDEFIXES		Unk
*PGM	J55TPPOJ	CLP	JDEFIXES		Unk
*PGM	J55TRVL360	CLP	JDEFIXES	Update Ers Using PDM CFMIS400	Unk
*PGM	J55TUAF	CLP	JDEFIXES		Unk
*PGM	J55TUNDT	CLP	JDEFIXES	Date, Day & Time of Report Run for P55TUNIC PGM	Unk
*PGM	J55TUNHSAT	CLP	JDEFIXES	TDD-091106-Test-CPYF-mod-for-CCH House Staff Assoc	Unk
*PGM	J55TUNIC	CLP	JDEFIXES	Create tape Layout for Union - AFSCME	Unk
*PGM	J55TUNIO	CLP	JDEFIXES	Create tape Layout for Union - AFSCME	Unk
*PGM	J55TUNSHA	CLP	JDEFIXES	CCH House Staff Assoc. Union Membership File	Unk
*PGM	J55UNJB	CLP	JDEFIXES	Install PDBA 8110, PLAN PERS2 -- JOR	Unk
*PGM	J55UNSMM	CLP	JDEFIXES	Print Cook County Union Employees Summary **	Unk
*PGM	J55UNSM2B	CLP	JDEFIXES	Batch version of J55UNSM2 BATCH-PRINT Hold=*NO	Unk
*PGM	J55UNSSM	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	Unk
*PGM	J55UNSSMF	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	Unk
*PGM	J55UNSSMFB	CLP	JDEFIXES	Batch version of J55UNSSMF -- JOR	Unk
*PGM	J55UNSUM	CLP	JDEFIXES	modified Mar.9,2007 to include DBA 7019	Unk
*PGM	J55UNSUMF	CLP	JDEFIXES		Unk
*PGM	J55UN01	CLP	JDEFIXES	Update - Pay Grade Step Table by union	Unk
*PGM	J55UN01SBM	CLP	JDEFIXES	Submit Update - Pay Grade Step Table by Union	Unk

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*PGM	J55UN02	CLP	JDEFIXES	Report - Union Dues	Unk
*PGM	J55UPCCH	CLP	JDEFIXES	Reference to legacy empl# to fmis empl#	Unk
*PGM	J55UPSHE	CLP	JDEFIXES	Sheriff's overtime upload -- JOR	Unk
*PGM	J55VDSMB	CLP	JDEFIXES	problem	Unk
*PGM	J55VENDJCB	CLP	JDEFIXES	Batch-TEST J55VEND3CB(07/26) AIG REPORT FILE-TDD	Unk
*PGM	J55VENDJFB	CLP	JDEFIXES	Batch-TEST J55VEND3FB(07/26) AIG REPORT FILE-TDD	Unk
*PGM	J55VENDJHB	CLP	JDEFIXES	Batch-TEST J55VEND3HB(07/26) AIG REPORT FILE-TDD	Unk
*PGM	J55VEND3	CLP	JDEFIXES	CUSTOM -- Create Extra Payroll Reports & downloads	Unk
*PGM	J55VEND3CJ	CLP	JDEFIXES	New J55VEND3C(08/01/06) AIG REPT FILE TO DOWNLOAD	Unk
*PGM	J55VEND3C2	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	Unk
*PGM	J55VEND3FJ	CLP	JDEFIXES	TEST J55VEND3F (07/26) AIG REPORT FILE TO DOWNLOAD	Unk
*PGM	J55VEND3H	CLP	JDEFIXES	New J55VEND3H (08/01/06) AIG REPT FILE TO DOWNLOAD	Unk
*PGM	J55VEND3HJ	CLP	JDEFIXES	TEST J55VEND3H (07/26) AIG REPORT FILE TO DOWNLOAD	Unk
*PGM	J55VNDRPT	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	J55VND03	CLP	JDEFIXES		Unk
*PGM	J55WKCOMPX	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	Unk
*PGM	J55WKCOMPY	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	Unk
*PGM	J55WRKCMP	CLP	JDEFIXES	Work man Comp Import File Creat	Unk
*PGM	J55WRKCOMP	CLP	JDEFIXES	Creates Workman comp file	Unk
*PGM	J55WWE01	CLP	JDEFIXES	WageWorks transit eligibility file	Unk
*PGM	J55W2T0TRN	CLP	JDEFIXES	CUSTOM -- Transfer ANNUAL W2 TAPE using FTP -- JOR	Unk
*PGM	J55XCOR	CLP	JDEFIXES	Reference F060116 TO legacy	Unk
*PGM	J55YAPHRT	CLP	JDEFIXES	FIXES --- Update YAPHRT from grade/step table	Unk
*PGM	J550040OFH	CLP	JDEFIXES	Use SQL to delete from F0040 -- Menu MIS_04_OFH	Unk
*PGM	J550116RSB	CLP	JDEFIXES	Batch Control Transferred Perm File	Unk
*PGM	J550601	CLP	JDEFIXES	Employee Master - HR Initial Setup	Unk
*PGM	J5506106	CLP	JDEFIXES		Unk
*PGM	J5506116R	CLP	JDEFIXES	Batch Control Transferred to Temp File	Unk
*PGM	J550613	CLP	JDEFIXES		Unk
*PGM	J550613SB	CLP	JDEFIXES		Unk
*PGM	J5508111A	CLP	JDEFIXES	Restatement of Activity Records	Unk
*PGM	J55116AMB7	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	Unk
*PGM	J55116AML4	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	Unk
*PGM	J55116BOA2	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	Unk
*PGM	J55116CCC5	CLP	JDEFIXES	Upload Timecards - Clear Work File	Unk
*PGM	J55116CCH5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	Unk
*PGM	J55116CCJ6	CLP	JDEFIXES	Upload Timecards CHFJG DPT#312	Unk
*PGM	J55116CCJ7	CLP	JDEFIXES	Upload Timecards CHFJG STAGING ONLY	Unk
*PGM	J55116CJ1	CLP	JDEFIXES	Clear f0040 CHFJG DPT#310	Unk
*PGM	J55116CJ2	CLP	JDEFIXES	Clear Error file F0040 CHJDG1 DPT#280	Unk
*PGM	J55116CJ4	CLP	JDEFIXES	Clear Error file F0040 CHJDG1 DPT#326,#538	Unk
*PGM	J55116CJ5	CLP	JDEFIXES	'Clear Error file F0040 CHJDG1 DPT#305	Unk

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*PGM	J55116CJ6	CLP	JDEFIXES	'Clear Error file F0040 CHJDG1 DPT#312	Unk
*PGM	J55116COM1	CLP	JDEFIXES	Upload Timecards - CCASSR CLEAR WORKFILE	Unk
*PGM	J55116CPY	CLP	JDEFIXES	Retro Pay Upload Job	Unk
*PGM	J55116CRE3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	Unk
*PGM	J55116CRL4	CLP	JDEFIXES	Upload Timecards - CRE Cpyf, Clrpfm	Unk
*PGM	J55116DOR4	CLP	JDEFIXES	Upload Timecards - DOR Cpyf, Clrpfm	Unk
*PGM	J55116DOR5	CLP	JDEFIXES	Clear Work File WF06116DOR	Unk
*PGM	J55116OFH1	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm	Unk
*PGM	J55116OFH6	CLP	JDEFIXES	Display and Clear Wrong Business Unit	Unk
*PGM	J55116PRC5	CLP	JDEFIXES	Upload Timecards - CCPRC CLEAR WORKFILE	Unk
*PGM	J55116ROD5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	Unk
*PGM	J55116SHE1	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm	Unk
*PGM	J55116STA2	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	Unk
*PGM	J553501P1	CLP	JDEFIXES	Changed to 16 day range for PP04	Unk
*PGM	J553501V	CLP	JDEFIXES	SET TO 13 DAYS FOR FPD. PP01-26.	Unk
*PGM	J553501X	CLP	JDEFIXES	01-06-03, use date subroutine	Unk
*PGM	J553501Y	CLP	JDEFIXES		Unk
*PGM	J56FLXUP	CLP	JDEFIXES		Unk
*PGM	J56FOINF	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	J56VNDRPT	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	J56W1099	CLP	JDEFIXES	Update Zip Code of F56W1099	Unk
*PGM	J56XCOR	CLP	JDEFIXES	Reference F060116 TO legacy	Unk
*PGM	J56XHFM	CLP	JDEFIXES	Reference F060116 TO legacy	Unk
*PGM	J560012	CLP	JDEFIXES	special testing AP Check Extract	Unk
*PGM	J58AR11	CLP	JDEFIXES		Unk
*PGM	J58AR15	CLP	JDEFIXES		Unk
*PGM	J58AR18	CLP	JDEFIXES		Unk
*PGM	J58AR9	CLP	JDEFIXES		Unk
*PGM	J59BRCDE	CLP	JDEFIXES		Unk
*PGM	J59BRCDF	CLP	JDEFIXES	Create F59brcde Barcode File	Unk
*PGM	J59OAKFF	CLP	JDEFIXES		Unk
*PGM	J59OAKFR	CLP	JDEFIXES		Unk
*PGM	J69BRCDE	CLP	JDEFIXES	Create F69brcde File	Unk
*PGM	J69OAKFR	CLP	JDEFIXES		Unk
*PGM	J79OAKFR	CLP	JDEFIXES		Unk
*PGM	J92BRCDE	CLP	JDEFIXES		Unk
*PGM	J92BRCDESJ	CLP	JDEFIXES		Unk
*PGM	REORG	CLP	JDEFIXES	CUSTOM -- Reorg files - pass in environment	Unk
*PGM	RSTTEST	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	Unk
*PGM	RSTTEST_SP	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	Unk
*PGM	SAVEJDF	CLP	JDEFIXES	Save JDF Pristine Libraries & JDEFIXES	Unk
*PGM	SAVEPROD	CLP	JDEFIXES	Save Production Libraries and transfer to CCDEV400	Unk

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*PGM	SAVEPRODNO	CLP	JDEFIXES	Save Production Libraries, No transfer	Unk
*FILE	F55FIX18	PF	JDEFIXES	Upload positions FY00 - Budget2001	Unk
*FILE	F55HLEMPL	PF	JDEFIXES	File Layout for Employee Master(Corporate)	Unk
*FILE	F55HR335	PF	JDEFIXES	Tape Layout for Universal Life Census -- JOR	Unk
*FILE	F55NA004	PF	JDEFIXES	output file from P55NA004 -- JOR	Unk
*FILE	F55TDCL	PF	JDEFIXES	Record desc for SEIU73 expanded 12/09(inc JobCode)	Unk
*FILE	F55TPENY	PF	JDEFIXES	12-29-2010 modified -- JOR **********	Unk
*FILE	F55TU46	PF	JDEFIXES	Record desc for SEIU73 expanded 12/09(inc JobCode)	Unk
*FILE	WF06116XXX	PF	JDEFIXES	Workfile - Timecard Upload ------- Limited Fields	Unk
*PGM	A55VNDRPT	RPG	JDEFIXES	Vendor payment report file	Unk
*PGM	P06OTOOLD	RPG	JDEFIXES	One-Time Override from a73pc00009	Unk
*PGM	P0618DBA	RPG	JDEFIXES	Furlough Reporting EE with Sal 85,000 +	Unk
*PGM	P062013	RPG	JDEFIXES	Daily Benefit/Accrual Calculations	Unk
*PGM	P062021MM	RPG	JDEFIXES	Pre-Payroll - Net Deduct & Benefit Calcs Plus Repo	Unk
*PGM	P06231A	RPG	JDEFIXES	CUSTOM Report - Print Paychecks c12	Unk
*PGM	P064501A	RPG	JDEFIXES	Benefit Accrual Roster	Unk
*PGM	P065501TD	RPG	JDEFIXES	Auto Deposit File Creation	Unk
*PGM	P06705	RPG	JDEFIXES	CUSTOM Final Update Control Report c12	Unk
*PGM	P067702	RPG	JDEFIXES	Print W-2 Laser Forms (4 part)	Unk
*PGM	P0801OLD	RPG	JDEFIXES	CUSTOM Employee Master - HR Initial Setup WHMc12	Unk
*PGM	P081820	RPG	JDEFIXES	FIX - Create Next Fiscal Years Position Budgets	Unk
*PGM	P082810	RPG	JDEFIXES	CUSTOM Update Salary Actuals	Unk
*PGM	P084H	RPG	JDEFIXES	CUSTOM Hire an Applicant Window c12	Unk
*PGM	P55ACC01	RPG	JDEFIXES	FILE FOR OAK FORREST VACATION AND SICK ACCRUAL JOR	Unk
*PGM	P55ACC03	RPG	JDEFIXES	12-20-00 O. F. VAC. AND SICK ACCR USES DDS -- JOR	Unk
*PGM	P55ACC05P	RPG	JDEFIXES	Vacation and Sick Days Report	Unk
*PGM	P55ACT01	RPG	JDEFIXES	Forest Preserve - pension actuary table fields JOR	Unk
*PGM	P55ASC00	RPG	JDEFIXES		Unk
*PGM	P55AUDQRY	RPG	JDEFIXES	Create Auditor Query Files	Unk
*PGM	P55BEMP	RPG	JDEFIXES		Unk
*PGM	P55BEMPL	RPG	JDEFIXES	Update F06106 with New DBA's for New Plans	Unk
*PGM	P55BEMPP	RPG	JDEFIXES	Update F06106 with Termination of Old Plan DBA's	Unk
*PGM	P55BENUP	RPG	JDEFIXES	Prcoess New BENEFITS For All Employees	Unk
*PGM	P55BEN01	RPG	JDEFIXES	Compare - Benefits (F08330) to DBA's (F06106)	Unk
*PGM	P55BEN02	RPG	JDEFIXES	Compare - DBA'S (F06106) TO Benefits (F08330)	Unk
*PGM	P55BUSU200	RPG	JDEFIXES		Unk
*PGM	P55CHSUP	RPG	JDEFIXES		Unk
*PGM	P55CMPDTE	RPG	JDEFIXES		Unk
*PGM	P55COMPW2	RPG	JDEFIXES	Compare - Find errors in W2 reporting -- JOR	Unk
*PGM	P55COMP89	RPG	JDEFIXES	Compare Positins F060116 to F08101 for a FY	Unk
*PGM	P55COMP93	RPG	JDEFIXES	Compare - To Legacy step3 rate,grd,stp,job,hmcu	Unk
*PGM	P55COMP94	RPG	JDEFIXES	Compare - To Legacy step4 4 dates -- JOR	Unk

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*PGM	P55CONVCH1	RPG	JDEFIXES	Convert Legacy Time Card to JDE Format - Program	Unk
*PGM	P55CONVHLT	RPG	JDEFIXES	Convert Legacy Time Card to JDE Format - Program	Unk
*PGM	P55CUMBK	RPG	JDEFIXES		Unk
*PGM	P55CUMUP	RPG	JDEFIXES		Unk
*PGM	P55DATE1	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	Unk
*PGM	P55EARNS	RPG	JDEFIXES	Print FMIS PDBA Range Earning Report	Unk
*PGM	P55EDSTR2T	RPG	JDEFIXES	Payroll Earnings and Deductions Summary Rep	Unk
*PGM	P55EDSTR3	RPG	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	Unk
*PGM	P55EDSTR4	RPG	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	Unk
*PGM	P55EEOCM	RPG	JDEFIXES		Unk
*PGM	P55ELG01	RPG	JDEFIXES	Eligibility report for Brian Goggin -- JOR	Unk
*PGM	P55ELG02	RPG	JDEFIXES	Pension disk & report for Brian Goggin -- JOR	Unk
*PGM	P55ELG03	RPG	JDEFIXES	Eligibility w grade 20+ for Brian Goggin -- JOR	Unk
*PGM	P55EMSTRX	RPG	JDEFIXES	Create Employee Data Base From F060116	Unk
*PGM	P55FIXA00	RPG	JDEFIXES		Unk
*PGM	P55FIXLIF	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB, Life & UWay	Unk
*PGM	P55FIXPEN	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB, pension -- JOR	Unk
*PGM	P55FIXSEQ	RPG	JDEFIXES	Update HPDL02 in F08101 -- JOR	Unk
*PGM	P55FIX0092	RPG	JDEFIXES	Fix address # in security file F0092 -- JOR	Unk
*PGM	P55FIX0101	RPG	JDEFIXES	Fix space after comma in last name, f0101 -- JOR	Unk
*PGM	P55FIX1062	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB file -- JOR	Unk
*PGM	P55FIX136A	RPG	JDEFIXES	FIXES --- Combine tax records F06136L8 -- JOR	Unk
*PGM	P55FIX166	RPG	JDEFIXES	FIXES --- F06166, ADD YTGPA TO YVG101 -- JOR	Unk
*PGM	P55FLXPF	RPG	JDEFIXES		Unk
*PGM	P55FLXUP	RPG	JDEFIXES	Update Flex Spending Annual Amount	Unk
*PGM	P55FOINF	RPG	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	P55GL04	RPG	JDEFIXES	Create - Contra Amounts from IT, I5, IR, some OV	Unk
*PGM	P55GRANT	RPG	JDEFIXES	Create - Position Master Grant records	Unk
*PGM	P55HCR01	RPG	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	Unk
*PGM	P55HMODED	RPG	JDEFIXES	Non-union Employees Enrolled in HMO Medical Plan	Unk
*PGM	P55HQEFST	RPG	JDEFIXES	Error report for duplicate Effective Thru Dates	Unk
*PGM	P55IEE	RPG	JDEFIXES	CUSTOM -- Employee Master - HR Inquiry Only -- JOR	Unk
*PGM	P55JBENE	RPG	JDEFIXES	Justice Benefits Quarterly Earnings andFringes	Unk
*PGM	P55JMEEOJ	RPG	JDEFIXES		Unk
*PGM	P55JRPTS	RPG	JDEFIXES	Health Cost Report - Overtime Summary by Employee	Unk
*PGM	P55JUD01	RPG	JDEFIXES	Judges - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	P55JUD02	RPG	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	P55JUD03	RPG	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	Unk
*PGM	P55LFLX	RPG	JDEFIXES	Print flex labels from f060116k and f55tfxa -- JOR	Unk
*PGM	P55MASSC	RPG	JDEFIXES		Unk
*PGM	P55NA001	RPG	JDEFIXES	Forest Preserve - N/A listing -- selected zips JOR	Unk
*PGM	P55NA002	RPG	JDEFIXES	Forest Preserve - N/A listing - pension floppy JOR	Unk

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*PGM	P55NA003	RPG	JDEFIXES	Forest Preserve - N/A floppy -- name unstring JOR	Unk
*PGM	P55NA004	RPG	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	Unk
*PGM	P55NA005	RPG	JDEFIXES	Forest Preserve - N/A list -- selected zips JOR	Unk
*PGM	P55NA006	RPG	JDEFIXES	Forest Preserve - N/A disk -- NO ZIP TEST -- JOR	Unk
*PGM	P55NA007	RPG	JDEFIXES	Charity cards for Forest Preserve -- JOR	Unk
*PGM	P55NA008	RPG	JDEFIXES	Freedom of Information Reports for WGN -- JOR	Unk
*PGM	P55NA009	RPG	JDEFIXES	List of FP employees by job code -- JOR	Unk
*PGM	P55NA010	RPG	JDEFIXES	Forest Preserve - N/A listing -- selected zips JOR	Unk
*PGM	P55NA011	RPG	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	Unk
*PGM	P55NHR1	RPG	JDEFIXES	New-Hire Reporting (W4 File) for Joan Quirke	Unk
*PGM	P55NON110	RPG	JDEFIXES	FIXES --- Update hours for non-110	Unk
*PGM	P55OAKF	RPG	JDEFIXES	Create Employee Data Base From F060116	Unk
*PGM	P55OPTOUT	RPG	JDEFIXES	Union Employees in WVRCTYSP Plan	Unk
*PGM	P55OT001	RPG	JDEFIXES	10% and 25% overtime reports for Molis/Fronk - JOR	Unk
*PGM	P55PBDEF	RPG	JDEFIXES	Create Employee Data Base	Unk
*PGM	P55PFY00	RPG	JDEFIXES	Create - Position Master FY00 records	Unk
*PGM	P55PFY01	RPG	JDEFIXES	New Fiscal Year Budget -- JOR	Unk
*PGM	P55PFY01F	RPG	JDEFIXES	FPD -- upload positions - Budget -- JOR	Unk
*PGM	P55PFY04	RPG	JDEFIXES	Mid-Year Budget Revisions -- JOR	Unk
*PGM	P55PHIST	RPG	JDEFIXES		Unk
*PGM	P55PHYP0	RPG	JDEFIXES		Unk
*PGM	P55POSB01	RPG	JDEFIXES	Update - Budget Prep 110 records for F081012 add	Unk
*PGM	P55POSB02	RPG	JDEFIXES	Update - Budget Prep 110 records for F081012 del	Unk
*PGM	P55POSCG8	RPG	JDEFIXES	Update - Position Master (Corporate) G8 error	Unk
*PGM	P55POSC1	RPG	JDEFIXES	Check - Position Master (Corporate)	Unk
*PGM	P55POSC9	RPG	JDEFIXES	Check - Position Master - UPDATE AMTS IF EXIST	Unk
*PGM	P55POSH1	RPG	JDEFIXES	Check - Position Master (Hospital)	Unk
*PGM	P55POSH9	RPG	JDEFIXES	Check - Position Master - UPDATE AMTS IF EXIST	Unk
*PGM	P55POS25S2	RPG	JDEFIXES	Step 2 Update - PX04, desc in F08101	Unk
*PGM	P55POS25S3	RPG	JDEFIXES	Step 3 Update - Step in F08101	Unk
*PGM	P55POS31	RPG	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	Unk
*PGM	P55POS32	RPG	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	Unk
*PGM	P55PPR01A	RPG	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	Unk
*PGM	P55PPR01B	RPG	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	Unk
*PGM	P55PTM01	RPG	JDEFIXES	Part-Time Accrual Customization	Unk
*PGM	P55PUDFS	RPG	JDEFIXES	Create Employee Data Base From F060116	Unk
*PGM	P55REBLD	RPG	JDEFIXES	Encumbrance exception report -- JOR	Unk
*PGM	P55RETRO	RPG	JDEFIXES	create workfile from legacy system info	Unk
*PGM	P55RETRO01	RPG	JDEFIXES	Retro pay selection -- JOR	Unk
*PGM	P55RPT2001	RPG	JDEFIXES	Report - Pay Grade Step Table (most recent)	Unk
*PGM	P55TABUP	RPG	JDEFIXES		Unk
*PGM	P55TAL1	RPG	JDEFIXES	Taleo LUDS file for Joan Quirke	Unk

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*PGM	P55TBEN3	RPG	JDEFIXES	Insurance Cost Reports for Individual User -- JOR	Unk
*PGM	P55TCTL	RPG	JDEFIXES	Payroll Control	Unk
*PGM	P55TDNT	RPG	JDEFIXES		Unk
*PGM	P55TFLX	RPG	JDEFIXES	Create Tape Layout for Flexible Benefits	Unk
*PGM	P55TFLXTRN	RPG	JDEFIXES	Flexible spending, Prepare FTP controls -- JOR	Unk
*PGM	P55THIBTD	RPG	JDEFIXES	Health insurance billings -- TEST PP# - TD.7/17/07	Unk
*PGM	P55TIME03	RPG	JDEFIXES	Commented report put back in -- DG&JOR	Unk
*PGM	P55TIME05	RPG	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	Unk
*PGM	P55TIME90	RPG	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	Unk
*PGM	P55TPENC	RPG	JDEFIXES	Create File Layout for Corporate Pension	Unk
*PGM	P55TPENF	RPG	JDEFIXES	Create File Layout for Forest Pre Pension	Unk
*PGM	P55TPENH	RPG	JDEFIXES	Create File Layout for Hospital Pension	Unk
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*PGM	P55TPPOJ	RPG	JDEFIXES		Unk
*PGM	P55TRNSF	RPG	JDEFIXES	Wageworks Transit Eligibility File	Unk
*PGM	P55TSSNO	RPG	JDEFIXES		Unk
*PGM	P55TUAFT	RPG	JDEFIXES		Unk
*PGM	P55TUNIO	RPG	JDEFIXES	Create Tape Layout for Union Employee Information	Unk
*PGM	P55UNJB	RPG	JDEFIXES	Install PDBA 8110, PLAN PERS2 -- JOR	Unk
*PGM	P55UNSM1B	RPG	JDEFIXES	Print Union Summary for Local 714 backup on 022007	Unk
*PGM	P55UNSM3D	RPG	JDEFIXES	Print Union Summary, SEIU 73 and 20(TD and JOR)	Unk
*PGM	P55UNSSM	RPG	JDEFIXES	Print Cook County Union Employees Summary	Unk
*PGM	P55UNSUMPP	RPG	JDEFIXES	Print Cook County Union Employees Summary	Unk
*PGM	P55UN01	RPG	JDEFIXES	Update - Pay Grade Step Table	Unk
*PGM	P55UPDCUA	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	Unk
*PGM	P55UPDCU1	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	Unk
*PGM	P55UPDCU2	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	Unk
*PGM	P55UPDCU3	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	Unk
*PGM	P55UPSHE	RPG	JDEFIXES	Sheriff's overtime upload -- JOR	Unk
*PGM	P55VNDRPT	RPG	JDEFIXES	Vendor Payment Report	Unk
*PGM	P55VOIDS2H	RPG	JDEFIXES	Batch Void of checks using AN8, PP --- HLT	Unk
*PGM	P55WKCMP	RPG	JDEFIXES	Transfer Legacy Enrollment Data	Unk
*PGM	P55WWE01	RPG	JDEFIXES	WageWorks transit eligibility file	Unk
*PGM	P55W1099	RPG	JDEFIXES	Update Zip Code of F04515OW	Unk
*PGM	P55XCOR	RPG	JDEFIXES	Create Employee Master File For Legacy System	Unk
*PGM	P55XHFM	RPG	JDEFIXES	Create Hosp Empl Mastr File For Legacy System	Unk
*PGM	P55XINV	RPG	JDEFIXES	Process BENEFITS For All Employees	Unk
*PGM	P55YAPHRT	RPG	JDEFIXES	FIXES --- Update YAPHRT to match grade/step table	Unk
*PGM	P5506SSN	RPG	JDEFIXES		Unk
*PGM	P550601	RPG	JDEFIXES	Custom - Employee Master - w/ cook co customizati	Unk
*PGM	P5506106	RPG	JDEFIXES		Unk
*PGM	P5506116R	RPG	JDEFIXES	Batch Control Transferred to Perm File	Unk

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*PGM	P5508111A	RPG	JDEFIXES	Restatement of Activity Recordss	Unk
*PGM	P5508111B	RPG	JDEFIXES	Update of Activity Records (F08111) for Retro's	Unk
*PGM	P5508111C	RPG	JDEFIXES	Update F08111 Activity Records	Unk
*PGM	P55607FEES	RPG	JDEFIXES		Unk
*PGM	P56FLXUP	RPG	JDEFIXES		Unk
*PGM	P56FOINF	RPG	JDEFIXES	Create File Requested by Tribune Thru FOI	Unk
*PGM	P56VNDRPT	RPG	JDEFIXES	Vendor Payment File Creation	Unk
*PGM	P56W1099	RPG	JDEFIXES	Update Zip Code of F04515OW	Unk
*PGM	P56XINV	RPG	JDEFIXES		Unk
*PGM	P560012	RPG	JDEFIXES	Create check extract file (F560001) for funding re	Unk
*PGM	P58AR18	RPG	JDEFIXES		Unk
*PGM	P58AR7B	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	Unk
*PGM	P58BRCDE	RPG	JDEFIXES		Unk
*PGM	P59BRCDE	RPG	JDEFIXES		Unk
*PGM	P59OAKFR	RPG	JDEFIXES		Unk
*PGM	P69BRCDE	RPG	JDEFIXES		Unk
*PGM	P69OAKFR	RPG	JDEFIXES		Unk
*PGM	P79BRCDE	RPG	JDEFIXES		Unk
*PGM	P79OAKFR	RPG	JDEFIXES		Unk
*PGM	P89BRCDE	RPG	JDEFIXES		Unk
*PGM	P90BRCDE	RPG	JDEFIXES		Unk
*PGM	P92BRCDE	RPG	JDEFIXES		Unk
*PGM	P99BRCDE	RPG	JDEFIXES		Unk
*PGM	WF06116PGM	RPG	JDEFIXES	Retro Pay Upload Program	Unk
*PGM	X55UPDCU1	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	Unk

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EXHIBIT 2

Order Document

Denovo

Exhibit 2 - Denovo ORDERING DOCUMENT

Customer Name: Cook County
Customer Location: 118 N. Clark Street, Room 1018
Chicago, Illinois 60602

Customer Contact: _____
Phone Number: _____
Email Address: _____

Denovo Ventures LLC (dba Denovo) is an authorized provider of BPO (Business Process Outsourcing) License and Services listed below based on the following Oracle Agreements.

Agreement: BPO License and Services Agreement

Agreement Name: US-BPO-TERM-BPO LICENSE AND SERVICES AGREEMENT V072607-13523116-08-NOV-2011

For purposes of this ordering document "You" refers to the customer.

A. Description of Ordered Programs and Services

Listed below is a summary of the licensed programs ordered under this ordering document. You have ordered the BPO licenses described below and technical support services for the initial six (6) month period followed immediately by a thirty (30) month term of for a total license term of thirty six (36) months to commence on the effective date of this ordering document.

JD Edwards EnterpriseOne Licensed Modules	Licensing Metric	Initial 6 months Minimum Number	Last 30 months Maximum Number
JD Edwards EnterpriseOne 9.1 System Foundation	Application User	200	22000
Oracle Technology Foundation for JD Edwards EnterpriseOne 9.1	Application User	200	22000
User Productivity Kit Professional	Employee	200	22000
JD Edwards EnterpriseOne 9.1 Financials	Application User	5	20
JD Edwards EnterpriseOne 9.1 Human Resources	Employee	200	22000
JD Edwards EnterpriseOne 9.1 Payroll	Employee	200	22000
JD Edwards EnterpriseOne 9.1 Self-Service Human Resources	Employee	200	22000
JD Edwards EnterpriseOne 9.1 Time and Labor	Employee	200	22000
JD Edwards EnterpriseOne 9.1 Health and Safety Incident Management	Employee	200	22000
JD Edwards EnterpriseOne 9.1 One View Reporting Foundation	Application User	8	345
JD Edwards EnterpriseOne 9.1 One View Reporting for Human Resources	Application User	2	150
JD Edwards EnterpriseOne 9.1 One View Reporting for Payroll	Application User	2	150
JD Edwards EnterpriseOne 9.1 One View for Financials	Application User	2	20
JD Edwards EnterpriseOne 9.1 One View Reporting for Health and Safety Incident	Application User	2	25

B. General Terms

1. Commencement Date

a. All BPO licenses and the period of performance for all services are effective upon shipment of tangible media or upon the effective date of this ordering document if shipment of tangible media is not required.

2. Delivery and Installation

a. You or your agent shall be responsible for installation of the software.

b. Oracle has made the programs listed in section A and the limited use programs, described below, available to you for electronic download at the electronic delivery web site located at the following Internet URL: http://edelivery.oracle.com. Through the Internet URL, you can access and electronically download to your location the current production release as of the effective date below of the software and related program documentation for each program listed in section A. Provided that you have continuously maintained the subscription fee for the programs listed in section A, you may continue to download the software and related program documentation for the programs listed in section A. Please be advised that not all programs are available on all hardware/operating system combinations. For current program availability please check the

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electronic delivery web site specified above. You acknowledge that Oracle and Denovo are under no further delivery obligation under this ordering document, electronic download or otherwise.

c. In entering into this ordering document, you agree and acknowledge that you have not relied on the future availability of any program or updates. However, (a) if you order technical support for programs licensed under this ordering document, the preceding sentence does not relieve Oracle of its obligation to provide such technical support under this ordering document, if-and-when available, in accordance with Oracle's then current technical support policies, and (b) the preceding sentence does not change the rights granted to you for any program licensed under this ordering document, per the terms of this ordering document and the agreement.

d. In addition to the fees listed in section A, Denovo will invoice you for any applicable shipping charges or applicable taxes.

3. Source Code

Oracle may deliver source code as part of its standard delivery for particular programs; all source code delivered by Oracle is subject to the terms of this agreement, ordering document and program documentation.

4. Segmentation

The BPO licenses provided in this ordering document are offered separately from any other proposal for consulting services youmay receive or have received from Oracle or Denovo.

5. Territory

The program licenses and services described in section A are for use in the United States of America.

6. User Count Audit

Upon 30 days written notice, Denovo or Oracle may audit your use of the programs. You agree to cooperate with Denovo or Oracle's audit and provide reasonable assistance and access to information. Any such audit shall not unreasonably interfere with your normal business operations. You agree to pay within 30 days of written notification any fees applicable to your use of the programs in excess of your license rights. If you do not pay, Denovo or Oracle can end your technical support, licenses and/or this ordering document. You agree that Denovo or Oracle shall not be responsible for any of your costs incurred in cooperating with the audit.

7. Term and Termination

The term of this ordering document commences on the effective date and shall continue in effect for thirty six (36) months, unless sooner terminated by either party in accordance with the terms and conditions Set forth in the Agreement.

8. Limited Use Licenses

All programs in section A above include a limited right to use Oracle Database Enterprise Edition and Oracle Internet Applications Server Enterprise Edition or Weblogic Enterprise Edition. These products are limited to and can only be used in conjunction with licensed BPO applications. Components included in each of the products above are as described in Oracle's web site as of the effective date of this ordering document. Your use of these programs is limited to be used solely in connection with your use of the BPO programs in section A.

9. Warranties, Disclaimers and Exclusive Remedies

Denovo warrants that a program licensed to you will operate in all material respects as described in the applicable program documentation for one year after delivery (i.e., via physical shipment or electronic download). You must notify Denovo of any program warranty deficiency within one year after delivery. Denovo also warrants that services will be provided in a professional manner consistent with industry standards. You must notify Denovo of any services warranty deficiencies within 90 days from performance of the defective services.

DENOVO DOES NOT GUARANTEE THAT THE PROGRAMS WILL PERFORM ERROR-FREE OR UNINTERRUPTED OR THAT DENOVO WILL CORRECT ALL PROGRAM ERRORS.

FOR ANY BREACH OF THE ABOVE WARRANTIES, YOUR EXCLUSIVE REMEDY, AND DENOVO'S ENTIRE LIABILITY, SHALL BE: (A) THE CORRECTION OF PROGRAM ERRORS THAT CAUSE BREACH OF THE

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WARRANTY, OR IF DENOVO CANNOT SUBSTANTIALLY CORRECT SUCH BREACH IN A COMMERCIALLY REASONABLE MANNER, YOU MAY END YOUR PROGRAM LICENSE AND RECOVER THE FEES PAID TO DENOVO FOR THE PROGRAM LICENSE AND ANY UNUSED, PREPAID TECHNICAL SUPPORT FEES YOU HAVE PAID FOR THE PROGRAM LICENSE; OR (B) THE REPERFORMANCE OF THE DEFICIENT SERVICES, OR IF DENOVO CANNOT SUBSTANTIALLY CORRECT A BREACH IN A COMMERCIALLY REASONABLE MANNER, YOU MAY END THE RELEVANT SERVICES AND RECOVER THE FEES PAID TO DENOVO FOR THE DEFICIENT SERVICES.

TO THE EXTENT PERMITTED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS, INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

10. End of Agreement

If either party breaches a material term of this Ordering Document, the provisions set forth in the Agreement regarding termination shall govern.

11. Technical Support and Program Updates

a) For purposes of this order, technical support is included and consists of Oracle's annual technical support. Annual technical support is provided under Oracle's technical support policies in effect at the time the technical support services are provided. You agree to cooperate with Oracle and provide the access, resources, materials, personnel, information and consents that Oracle may require in order to perform the technical support services. The technical support policies are incorporated in this Ordering Document and are subject to change at Oracle's discretion; however, Oracle policy changes will not result in a material reduction in the level of technical support services provided for supported Programs during the period for which fees for technical support have been paid. You should review the policies prior to entering into the order for the applicable technical support services. You may access the current version of the technical support policies at http://oracle.com/contracts.

b) Program Updates. "Update" means a subsequent release of the program which Oracle generally makes available for program licenses to its supported customers at no additional license fee, other than shipping charges if applicable, provided you have ordered a technical support offering that includes software updates for such licenses for the relevant time period. Updates do not include any release, option or future program that Oracle licenses separately. Updates are provided when available (as determined by Oracle) and updates may not include all versions previously available for a program acquired by Oracle. Oracle is under no obligation to develop any future programs or functionality. Any updates made available will be delivered to you, or made available to you for download. If delivered, you will receive one update copy for each supported operating system for which your program licenses were ordered. You shall be responsible for copying, downloading and installing the updates.

C. Future Purchases

1. Additional Licenses

Should the County increase either the number of users for any specific module(s) and/or the total number of employees, the cost of the solution to the County will increase accordingly.

D. Other

1. BPO License Acquired for Specified End User

You are acquiring the BPO licenses specified in section A of this ordering document solely for the use by Cook County. You may not assign this ordering document or give or transfer the programs and/or any services or an interest in them to another individual or entity. You may permit BPO users to access and use such BPO licenses described in this ordering document.

2. Definition of Metric

Application User metric: is defined as an individual authorized by you to use the applicable licensed application programs which are installed on a single server or on multiple servers regardless of whether the individual is actively

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using the programs at any given time.

Employee metric: is defined as all of your full-time, part-time, temporary employees; the quantity of licenses required is determined by the number of employees and not the actual number of users. In addition, all of your agents, contractors, consultants and outsourcers that either (i) are monitored or otherwise tracked by use of the BPO Programs, or (ii) are authorized to use the BPO Programs also must be counted as "Employees" for the purposes of determining the quantity of licenses required.

The ordering document shall become binding upon execution by you and acceptance by Denovo.

DENOVO		**COOK COUNTY**	
Signature	_____	**Signature**	_____
Name	_____	**Name**	_____
Title	_____	**Title**	_____
Signature Date	_____	**Signature Date**	_____

Effective Date (to be completed by Denovo) _____

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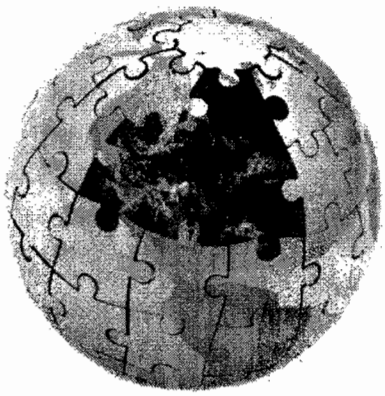
EXHIBIT 3

Denovo Proposal

Denovo

JD Edwards World to EnterpriseOne

HR/Payroll Upgrade Project



Cook County Government

JD Edwards World to EnterpriseOne

HR/Payroll Upgrade Project

Document Demographic Table	
Service	Data migration; system upgrade; training; and business process improvements
Engagement Type	Upgrade of currently installed JD Edwards World system, to JD Edwards EnterpriseOne
Applications/Areas	Payroll, Human Resources, Benefits, Position Control
Industry	Public Sector – County
Keywords	ERP, Oracle, JD Edwards, EnterpriseOne, World
Period of Performance	April 2013 – October 2016
Date	April 8, 2013
Document Control	V6.1 – Original

ORACLE Platinum Partner

Denovo

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Non-disclosure Agreement

To facilitate discussions between Denovo and Cook County regarding services Denovo is being requested to provide in this proposal, both Parties agree to respect the confidential nature of the information being provided.

(a) ***General*** – Any proprietary information or data (including the Proposal), Trade Secrets (as defined below) and any other information designated as confidential by either Party is considered confidential (***"Confidential Information"***). To the extent that either Party comes into possession of any proprietary or confidential information of the other Party in connection with the Proposal, such Party agrees to use the Confidential Information of the other Party solely for the purposes of the Proposal, and will not disclose such Confidential Information to any third party without the prior written consent of the other Party.

(b) ***Exclusions*** – Notwithstanding any provision herein to the contrary, Confidential Information shall not include information that (i) is or becomes publicly available other than by breach of the Agreement, (ii) was disclosed to the receiving Party on a non-confidential basis from a source other than the disclosing Party, which the receiving Party reasonably believes is not prohibited from disclosing such information as a result of an obligation in favor of the disclosing Party, (iii) is developed by the receiving Party independent of and without reference to any Confidential Information, or was known by the receiving Party prior to any disclosure of such information made by the disclosing Party, in each case as evidenced by the receiving party's written records, or (iv) is disclosed with the written consent of the owner of the confidential information.

(c) ***Protection*** – Each Party shall maintain the Confidential Information of the other Party in confidence using at least the same degree of care as it employs in maintaining in confidence its own proprietary and confidential information, but in no event less than a reasonable degree of care.

(d) ***Remedies*** – If a Party discloses or uses (or threatens to use or disclose) any Confidential Information of the other Party in breach of the confidentiality protections described here, the other Party shall have the right, in addition to any other remedies available, to seek injunctive relief to enjoin such acts, as the Parties acknowledge that any other available remedies may be inadequate.

(e) ***Compelled Disclosure*** – Notwithstanding the above, the receiving Party shall not be in violation of this confidentiality obligation with regard to a disclosure that was in response to a valid order of a court of competent jurisdiction, administrative agency or governmental body, or by any law, rule or regulation, or by subpoena, summons or any other administrative or legal process, or by applicable regulatory or professional standards, provided that the receiving Party provides the disclosing Party with reasonably prior written notice of such disclosure in order to permit the disclosing Party to seek confidential treatment of such information.

(f) ***Trade Secrets*** – Denovo employs trade secrets including, without limitation, various computer systems and programs, techniques, developments, improvements, inventions, and processes that are, or may be, produced in the course of Denovo's operations, any other information not generally known concerning Denovo or its operations, products, suppliers, markets, sales, costs, profits, Cook County needs and lists, including the pricing information made available in the Agreement or other information acquired, disclosed, or made known to employees or agents while in the employ of Denovo, which, if used or disclosed, could adversely affect Denovo's business or give competitors an advantage (***"Trade Secrets"***). Such Trade Secrets contain privileged or confidential commercial or financial information that would result in a competitive disadvantage if disclosed without prior permission by Denovo. Since it would harm Denovo if any of its Trade Secrets were known to our competitors, it is Denovo's policy that the Trade Secrets not be disclosed to any party other than Cook County. In the event that Cook County is a public entity and awards a contract to Denovo, Cook County shall have the restricted right to disclose the entire contract dollar amount, however this disclosure may not include itemized data or any Trade Secrets.

1. Executive Summary

Introduction

Cook County is currently utilizing JD Edwards World A73 for Payroll, Human Resource (employee master record), Benefits, and Position Control processing for its 22,000 employees. JD Edwards World was implemented in phases between May 2002 – October 2005, with the Cook County Juvenile Temporary Detention Center being the first department to go-live, and then Cook County Hospital being the last department to go-live. All Cook County agencies currently depend upon JD Edwards World to process payroll, regardless of the various methods which are used to capture employee time. The reliability and availability of JD Edwards World is therefore critical to Cook County's business operations.

Related Issues: Because Cook County's JD Edwards World is at release A73, it is many releases behind and is no longer supported by Oracle, and effective December 31, 2013 the tax tables that are used to compute the employee's tax withholdings, both federal and state will no longer be supported by Vertex. This compromises Cook County's ability to accurately compute payroll beginning January 2014.

Cook County's financials and purchasing applications are run on the JD Edwards OneWorld, and the applications were placed into production December 1, 1999. Cook County's JD Edwards OneWorld includes the following applications: General Ledger, Accounts Payables, Accounts Receivables, Grants, Budget Reporting, Purchasing, and Inventory Control.

All Cook County departments rely upon JD Edwards OneWorld applications except the Forest Preserve District. Although CCH&HS implemented the Lawson ERP system between 2009 and 2012, its system transactions are ultimately reconciled by using JD Edwards OneWorld.

Related Issues: JD Edwards World and JD Edwards OneWorld share tables; this is referred to as a co-existent system environment. Because JD Edwards OneWorld is at release B.7332, it is also many releases in arrears, highly customized, undocumented, and unsupported by Oracle. The confluence of issues surrounding the current JD Edwards World and JD Edwards OneWorld poses significant risk to Cook County.

To address the most immediate problem, the December 31, 2013 expiration of the maintenance service for the payroll tax table, Cook County evaluated how it could expedite the implementation of the new payroll system with the least amount of risk to JD Edwards OneWorld. To reinforce this requirement, Cook County stipulated that the new payroll system would have to be implemented with two parallel tests.

Cook County examined all possible delivery options, including on-premise, remotely-hosted, and cloud-based payroll solutions and found that the least risky option was to upgrade the existing JD Edwards World to the current JD Edwards EnterpriseOne. To meet the December 31, 2013 implementation deadline, Cook County determined that a cloud-based solution would be the best approach.

A major risk mitigation and benefit of upgrading to the current release of JD Edwards EnterpriseOne is the reduced learning curve for Cook County users to become proficient with the release. The cloud-based solution makes it possible to implement the new system by November 2013, because the responsibility for managing the hardware, software, and data migration is the responsibility of the vendor.

Because Denovo is the only vendor who is certified by Oracle to deliver JD Edwards EnterpriseOne via a cloud-based solution, Cook County's ERP Center of Excellence (CoE) obtained authorization from the Procurement department to request a formal proposal. Cook County's ERP CoE then worked with over 100 system users and the payroll business process owner (the Comptroller) to evaluate the new system, and to validate that it effectively addressed user pain-points. They also worked with the Procurement Department, States Attorney, and Bureau of Technology to evaluate Denovo's scope of work, deliverables, pricing, and contract. Denovo genuinely

appreciates the opportunity to work with Cook County to propose a low risk solution that can be reasonably implemented by first week in November 2013, assuming the project kicks off May 1, 2013.

Proposed Solution

Denovo is recommending that Cook County upgrade JD Edwards World (which supports Payroll, Human Resources, Benefits and Position Control processes) to JD Edwards EnterpriseOne in the Denovo Cloud. Denovo's proposed solution includes:

- Utilizing the Denovo's Colorado data center to provide a highly scalable collection of servers and storage devices upon which JD Edwards EnterpriseOne runs.
- Support services for remote technical maintenance and application issue resolution; this includes access to Oracle phone support.
- A 3 meg MPLS circuit to connect Denovo's Colorado data center to Cook County's data center and the disaster recovery data center.
- A disaster recovery plan which provides Cook County access to their JD Edwards EnterpriseOne production environment at a secondary data center in the event a disaster occurs at Denovo's Colorado data center.
- The latest release of the JD Edwards EnterpriseOne software licensed to support Cook County's Payroll, Human Resources (Employee Master), Benefits and Position Control processes.
- Resolution of twenty "pain points" currently being experienced by Cook County's staff.
- User training on JD Edwards EnterpriseOne including training materials provided electronically through the use of Oracle's User Productivity Kit (UPK).

Highly qualified Denovo professionals working with the Cook County's ERP CoE will staff the upgrade project team. The project team will work with a core group of Cook County users to configure, test, document and train Cook County's user community on JD Edwards EnterpriseOne.

Initially, the project team will focus on configuring JD Edwards EnterpriseOne to provide the same functionality Cook County currently has in JD Edwards World. The team will implement identified process improvements only when doing so does not jeopardizing the planned go-live date of November 2013. Following the go-live date, any remaining process improvements will be implemented. The upgrade project's configuration tasks include:

- Project Management of the JD Edwards HR/Payroll Upgrade project
- Migration of JD Edwards World production data to JD Edwards EnterpriseOne.
- Configuration of JD Edwards EnterpriseOne applications and batch jobs to provide "best practices" supported by JD Edwards EnterpriseOne.
- Identify gaps in the "best practices" model and functionality currently available in JD Edwards World that is required for Client's business practices.
- Configuration of an as yet unspecified number of business process improvements that will be identified as in scope during the JD Edwards HR/Payroll Upgrade project. These improvements will be addressed after the go-live date and production support ends. Two (2) forty (40) hour a week resources, an HCM consultant and a developer, will be made available for the period of 3 months.
- Configuration of a roles based security model, menus, in the form of E1 pages a production "landing page" with links to other Client sites, and a non-production landing page with links to all non-production environments.
- Testing of the configured JD Edwards EnterpriseOne applications, batch jobs, menus, and roles based security.

- Parallel testing of two payroll cycles. A payroll cycle has three separate check runs which will be included in the parallel testing; corporate, health and Forest Preserve.
- Training of the upgrade project team and Client's user community.
- Project documentation will be prepared to support the upgrade project tasks.
- Development of JD Edwards EnterpriseOne objects to replace all identified existing interfaces, which currently run in the JD Edwards World production environment.
- Development of JD Edwards EnterpriseOne objects to replace all identified existing JD Edwards World custom or modified programs and files; to the extent they will be relevant in JD Edwards EnterpriseOne.
- Development of JD Edwards EnterpriseOne objects to replace all identified form templates currently used in JD Edwards World.
- Development of new interfaces to Cook County's current JD Edwards OneWorld B7332 production environment for the general ledger, address book tables and the payroll journal entry.
- CNC (Configurable Network Computing) (aka JD Edwards system administration) support to manage the SDLC (software development lifecycle) management of the JD Edwards EnterpriseOne objects through the various JD Edwards EnterpriseOne environments.
- Configuration of JD Edwards World to support a short-term continuity plan that will replicate the current tax software (Vertex) functionality. This will provide Cook County with the ability to properly produce payroll checks for its employee in the event that the upgrade project does not go-live before the first payroll check run in 2014.

For compensation of Denovo's services, Cook County would agree to a thirty six (36) month subscription to JD Edwards EnterpriseOne in the Denovo Cloud. The initial term would include the option of three (3) twelve (12) month extensions. Cook County would agree to pay for an initial setup fee for costs associated with getting the servers, storage, the communication line, and installation of the software in Denovo's Colorado data center. Cook County would agree to pay for Denovo's professional consulting services associated with the management, implementation, development and system administration of the upgrade project.

Benefits

Significant benefits will be realized by Cook County through Denovo's proposed solution, including:

- Elimination of Payroll/HR risk due to the lack of support by Oracle and/or Vertex. Cook County is assured of being supported on its JD Edwards EnterpriseOne applications – for as long as it continues to maintain a valid license from the vendor.
- A low risk solution to addressing Payroll and Human Resources issues. Denovo's proposed solution represents a proven and Oracle-scripted installation process that has been successfully deployed for numerous clients. Testing processes ensure that no outstanding issues exist when Cook County goes live on JD Edwards EnterpriseOne. Fail safe cutover back to Cook County's JD Edwards World is available at any point should the unexpected occur.
- Improved user efficiency will be gained by resolving the identified Cook County Payroll and Human Resources "pain points." During the recent discovery sessions with Denovo, ERP CoE, and key Cook County JD Edwards users, several issues where identified with JD Edwards World. Additional details on the identified Cook County "pain points" and proposed resolution are provided later in this document.
- Cook County users will adapt quickly to JD Edwards EnterpriseOne due to user's familiarity with JD Edwards World. The learning curve for these users is dramatically reduced with the proposed solution, so

the impact to the users will be significantly less than the impact associated with a transition to any other ERP (non-JD Edwards) solution.

- Improved functionality to support Cook County's complex Payroll and Human Resources requirements. The latest release of JD Edwards EnterpriseOne has significant improvements in functionality that will greatly assist Cook County Payroll and Human Resources process owners in becoming more efficient.
- "Round the Clock" (24/7/365) functional and technical support of Cook County's JD Edwards EnterpriseOne in the Denovo Cloud. Our Service Level Agreement (SLA) guarantees that continuous access and experienced expertise is provided to support Cook County's mission-critical payroll, human resources and other support processes whenever it is needed, further reducing any potential risk and ensuring more efficient operations.
- Reduction or elimination of upcoming required hardware costs. The hardware used to host Cook County's JD Edwards World is near the end of its useful life and the current operating system is antiquated. Data storage is approaching capacity. Replacement of this hardware, purchase of additional storage space (DASD) and/or upgrades of the operating system would require a significant financial investment by Cook County. Our solution will eliminate the continual expense of hardware acquisitions and upgrades.
- Reduction of manual efforts required by Cook County's Bureau of Technology staff to support JD Edwards EnterpriseOne. Because the proposed solution in located in the Denovo Cloud, the solution will eliminate the need for Bureau of Technology staff to perform daily manual steps necessary to operate JD Edwards EnterpriseOne. This will enable the Bureau of Technology to focus on its primary objectives and business processes.
- Provides robust functionality currently not available in Cook County's JD Edwards World. JD Edwards EnterpriseOne will address Cook County user "pain points" out of the box and will rollout additional functionality and features to improve operational efficiency and user productivity.
- Provides a vastly improved user interface. This 100% web enabled solution allows all users to JD Edwards EnterpriseOne through any supported web browser with a very intuitive user interface to simplify navigation and greatly improve user productivity and user satisfaction.
- Reduces efforts by Cook County staff. For example, JD Edwards EnterpriseOne will empower employees to electronically request life event changes, enroll/change benefits, complete performance reviews, request salary adjustments, etc. Enables employees and managers to correspond electronically instead of paper, via a system wide electronic workflow, significantly reducing time from request to action. Full electronic signature capabilities eliminate the need to print and sign documents.
- Provides an environmental friendly solution that reduces consumption of paper. Provides the ability to print to electronic PDF file instead of requiring hard copy printing.
- Provides the ability to enter and retain an unlimited number and length of text and/or attach electronic documentation to system records. Through media object attachments, any electronic document or number of attachments can be attached to any record in virtually JD Edwards EnterpriseOne transactional and master table. The unlimited text is fully searchable and contains all of the typical "Word" style fonts, spell check, and other formatting capabilities.
- Embedded BI Publisher capabilities. Eliminates the needs for other non-compatible forms software used for payroll checks and auto deposit advices.
- Built-in integration with Microsoft Office. Users are able to use consistent office commands and integration such as copy and paste actions into and from any office tool and automatically distribute workflow through Outlook.

- Reduces effort required to interface with third party solutions. Robust interoperability capabilities to simplify interfaces with other third party providers and systems.
- Eliminates requirement for the Bureau of Technology to support "ad hoc" reporting requirements. Empowers users to be able to create their own tabular and dashboard reports using the JD Edwards EnterpriseOne One View Reporting tool and simple "copy/paste" commands enables users to create virtually any desired ad hoc report without needing programming.

We are confident that our proposal represents the most cost effective solution to deliver business value to Cook County in the most condensed timeframe. Our focus on the client and ability to deliver cost effective, functionally rich, cloud based business solutions is the reason organizations choose to do business with Denovo. We look forward to working side by side with Cook County to deliver a fully managed, security-rich and production-ready cloud based solution designed to ensure enterprise-class performance and continuous availability.

2. Company Introductions

About Denovo

Denovo Ventures, LLC (dba Denovo) was founded in 2003 as limited liability company (LLC) by a group of former Oracle/JD Edwards Executives with the vision of providing the highest level of service possible to clients that we serve. Our company has enjoyed consistent growth, with over 200 employees.

Denovo is a Professional Services and Technology Firm committed to making our clients operationally stronger. Through the success of providing innovative solutions to our clients Denovo expanded its technology and business solutions in 2005 and 2007 to include Managed Services, Hosting and Cloud Computing. We combine world-class enterprise system implementation, integration, hosting and cloud services expertise, with a deep understanding of business processes and industry best practices, to build effective, technology-driven, business solutions.

Denovo is an Oracle Platinum Level Partner. Denovo has a strong heritage in tier one enterprise ERP and third party software implementations. Our team of highly experienced Oracle certified professionals and our industry leading Process Before Technology™ methodology provide a proven, cost-effective combination to deliver solutions that drive better business results.

From the Oracle/JD Edwards origins of our senior management team through the deep product and commercial sector experience of our PMP-certified project managers and Oracle-certified technical and functional consultants, our team is highly competent and able to guide this important project with Cook County to a successful completion.

Our value proposition is about you. We want to help you to improve client satisfaction. We want to make you more competitive. We want to make your company more efficient and operationally stronger. We focus on people and process first, software and technology second to ensure we are jointly developing solutions that are aligned with your business objectives.

Our client focused approach and ability to deliver effective business solutions are the reason people do business with us. This collaborative approach fits the reality of business today. Competition is tough. Budgets are tight. Timing is critical. We answer today's challenges by working with you to build innovative, agile, efficient enterprise solutions. So whether you are implementing a new software module, upgrading your current systems, undertaking a large-scale technology project, or developing new cloud computing strategies – Denovo can help. Our dedication to our clients has made us a trusted advisor to some of the world's leading commercial and public sector organizations.

Fundamentally, it's about working with you to improve business operations and performance. We listen, innovate, and then deliver world class business solutions.

It's the way we do business. It's our people and our culture. It's the way we take care of our clients and the way we concentrate on business solutions and cost of ownership. It's the richness of our solutions and the professionalism of our services. It's about our integrity, reliability, and quality.

The Denovo advantage is centered on the ***"Quality of the Client Experience"***, QCE. In today's tough economic climate, retaining and growing our relationships with our existing clients is job number one.

Our people realize that our clients are judging us on the quality of their experience, from requirement definition and solution analysis through implementation, delivery, documentation, and on-going support. That's why we focus on delivering solutions that ensure our clients experience is the best-in-class. At the end of each project we ask our clients to complete our QCE scorecard to ensure a quality client experience and continually improve our

performance. All these things together are the reasons that people do business with Denovo.

Biographies of Denovo company's principals follow:

Ron English (Chief Executive Officer, Denovo) - Mr. English has held numerous leadership positions in the IT industry over the past 25+ years. Currently CEO of Denovo, LLC, and accountable for leadership and management of one of Denovo's core business units, ERP Professional Services, he previously co-founded and served as CEO of Nakoma Group Enterprise Solutions, one of the predecessor companies of Denovo. Earlier roles include; CEO of iX Technology, a venture funded B2B exchange for intellectual property, President of the $400+ million IT Division of Kforce and a member of the executive team that led the merger and integration of Romac International with Source Services to form Kforce, President & CEO of ARI acquired by Renaissance Worldwide, President of MDTSC, a wholly owned services subsidiary of McDonnell Douglas acquired by Boeing, and nine years with McDonnell Douglas' Automation Company now part of EDS.

Mr. English earned a BS in Computer Science from the University of Georgia, and an MBA while employed by the University on a NASA contract.

Mark Goedde (President and COO, Denovo) - Mr. Goedde is responsible for managing business operations of the company in ways consistent with strategic goals and performance targets. Mr. Goedde also has accountability for the leadership and management of one of Denovo's core Business Units - Enterprise Hosting and Cloud Computing Solutions (complete enterprise class hosting and cloud computing solutions for ERP and third party applications).

Prior to his current position, he spent seven years as Vice President at JD Edwards where he created and managed two global consulting organizations; Global Advanced Technologies (which was responsible for the delivery of advanced technologies and solutions) and a Global Integration Practice (which was responsible for the delivery of integration technologies and solutions). Both consulting practices provided senior technology consultants to the field business units and high profile clients, both domestically and internationally. While at JD Edwards, Mr. Goedde was also responsible for creating a world class benchmarking and scalability organization to assist their leading platform partners (IBM, HP, Compaq, and Unisys & Microsoft) and clients with software sizing and scalability requirements. Mr. Goedde also created a successful mentoring and knowledge brokering methodology which allowed novice consultants to emerge as expert consultants in very short periods. Prior to joining JD Edwards, Mr. Goedde served as the Vice President and CIO at Quanterra Inc. - a Corning and IT Group owned company.

Mr. Goedde holds a Bachelor of Science degree in Business Administration from the University of Redlands in Redlands California and a Masters of Business Administration in Strategic Planning and Operations from Pepperdine University in Malibu California.

Paul McNulty (Vice President – Sales, Denovo) – Mr. McNulty is a senior IT professional with a 35+ year professional consulting career that includes: Strategy, System Selection, Professional Services Sales, Team Building, Supply Chain and System Integration Management, Project Management, People Mentoring, IT Assessments, and Merger-Integration experiences with particular strengths in business and personnel development. Industry experience includes: Consumer Products, Distribution, Entertainment, Financial Services, Health Care, Life Sciences, and Real Estate & Construction. His experience includes twenty two (22) years with Ernst & Young (E&Y), five (5) years leading Infocrossing's professional services division, and now eight (8) years as a Founder and member of the Leadership team of Denovo.

Mr. McNulty brings this experience working with the JD Edwards software as well as other ERP products including PeopleSoft, Oracle EBS, and BPCS to his clients. Mr. McNulty was an active member of E&Y's team that developed their System Development Methodology and later the Package Enabled Reengineering methodology and applied

that knowledge to building the methodologies used today to deliver quality services.

William Hylton (Vice President - Solution Delivery, Denovo) – Mr. Hylton is currently Senior Vice President Enterprise Hosting and Cloud Computing Services for Denovo. As a seasoned technology professional, he has overall responsibility for the business unit's operations, monitoring performance, shaping and developing strategy, and ensuring client satisfaction.

Mr. Hylton has over 18 years of experience leading and improving the quality and productivity of technology organizations. His career has been focused on reducing costs and implementing productivity improvements, managing technology applications and systems, and introducing new technologies into organizations and companies.

In the course of gaining his technological and operations experience, Mr. Hylton has worked in financial, technology and marketing information companies. He was the principal in charge of internal technology operations and client delivery systems at A.C. Nielsen for six years between 1990 and 1997. More recently at J.D. Edwards, he was a Director within the Worldwide Advanced Technology Organization from 1997 through 2002 responsible for supporting J.D. Edwards' clients on large scale or complex technology projects.

Mr. Hylton holds a Masters of Business Administration from the University of Colorado and a Bachelor of Science degree in math and computer science.

A testament to Denovo's capabilities is reflected in the quotes we received from our clients:

"By using Denovo for our enterprise hosting and cloud computing partner, we achieved our goals of better-managing our JD Edwards costs, reducing our E1 migration risks, and improving client service to Crocs staff. It's been almost two years since we chose Denovo, and we couldn't be happier." **Paul Lanham, CIO, Crocs**

"As a growing company, Sunrise Medical requires the ability to scale our computing infrastructure to meet our current and future plans. I was impressed with the creativity that Denovo's management showed in crafting a model and presenting a solution that truly serves our needs. Denovo has a solid track record of innovation and in delivering high quality IT services. These attributes, coupled with providing more resiliency and redundancy to our infrastructure, will serve Sunrise and our clients well." **Jim Dorvee, VP IT, Sunrise Medical**

"Denovo demonstrated their experience in accurately defining the scope of the project as well as an accurate estimate of the level of effort to perform our Xe to 9.0 upgrade. The detailed time estimates looked realistic and achievable to us. While not the lowest bid, it seemed to be the most realistic estimate for the work that needed to be performed. In addition to the accurate scoping, they possess very skilled resources in the technical and functional areas including HCM/Payroll which are difficult resources to find in this environment. All of their employees conduct themselves in a professional manner and prove their value in the knowledge and experience they bring to the project team." – **Mark Davidson, Project Manager, Golden State Water**

"We selected Denovo for our E1 9.0 upgrade based on their deep experience level with JD Edwards and the strategic relationship they have with Oracle. We were especially pleased with the functional members of the Denovo team's knowledge, and their ability to skillfully and effectively collaborate with the King County Library team." - **Suni Sommers, Enterprise Automation Administrator, King County Library System**

"We started with another large implementation partner and ultimately lost confidence in them. Denovo proved to be very competent at what they were doing and they are now our sole provider of consultants for E1 CNC and implementation work. Our E1 implementation went exceedingly well." - **Kyle Savage, Director of IT, TNT Fireworks**

Denovo's Experience

Denovo has implemented the JD Edwards EnterpriseOne Human Capital Management suite of products for several clients. Here is a quick list of recent projects:

- Baldwin County, AL – Upgrade from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.0
- City of Lubbock, TX - Upgrade from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.0
- Clifbar – Upgrade from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.0 in 2011
- Connecticut Water Company – Upgrade JD Edwards World to 8.12 live in 2009. JD Edwards EnterpriseOne License resell, then 8.12 upgraded to 9.0
- Golden State Water - Migration from JD Edwards World A7.3 Coexistence with JD Edwards OneWorld Xe to 9.0
- Government of Bermuda - Migrated from JD Edwards World A7.3 to JD Edwards EnterpriseOne 8.12 in 2008 then upgraded to 9.0.
- Minneapolis-St. Paul Metropolitan Airport Commission (MAC) –Initial migration from JD Edwards World A7.3 to JD Edwards EnterpriseOne 8.12, including Enterprise Managed Services then upgraded from 8.12 to 9.0.2
- Montana Rail Link – JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.0 Upgrade
- Seaspan Ship Management – JD Edwards World to JD Edwards EnterpriseOne 9.0 upgrade and license resell
- Hunter Industries - Upgrade from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1
- City of Albany/County of Dougherty, GA – Upgrade from 8.12 to 9.1 planned "Go-Live" in 2013, initially migrated from JD Edwards World A7.3 to JD Edwards EnterpriseOne 8.12 in 2008.
- Central Lincoln People's Utility District – upgraded to 8.12 from JD Edwards World A7.3, completed and go-live in 2010.
- Metropolitan Airport Commission - Upgrade from JD Edwards World A7.3 to 8.12 live in 2008
- Seaspan Marine/Seaspan ULC – JD Edwards World to JD Edwards EnterpriseOne 8.12 upgrade in 2010, then upgrade from 8.12 to 9.1.
- Aviation Partners Boeing – Upgraded JD Edwards World to 8.12 upgrade in 2009. Upgraded from 8.12 to 9.0.2 in 2012. Provide both hosting and managed services ongoing for APB.

The following table provides a representative listing of recent Denovo clients (in process or completed within the last 4 years) where the JD Edwards HCM solution has been implemented, as well as the duration required from project start through go-live:

		JD Edwards Release	JD Edwards HCM Products	No. of Employee	Project Duration
Adams County (Brighton, CO)	Migration/New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	1,800	6 months
Alaska Aerospace Corporation (Anchorage, AK)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	115	6 months

		JD Edwards Release	JD Edwards HCM Products	No. of Employee	Project Duration
Alaska Railroad Corporation (Anchorage, AK)	Net New Implementation	9.1	Payroll, HR, Time & Labor, HR Self Service	850	7 months
Allegheny County/ City of Pittsburgh (Pittsburgh, PA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	12,000+	8 months
American States Water Company (San Dimas, CA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	850	8 months
Barnhart-Reese Construction, Inc. (San Diego, CA)	Net New Implementation	9.0	Payroll, HR, Time & Labor	275	4 months
City of Bellevue (Bellevue, WA)	Migration/New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	2,400	5 months
City of Lubbock (Lubbock, TX)	Migration/New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	1,800	5 months
City of Oceanside (Oceanside, CA)	Net New Implementation	9.0	Payroll, HR, Time & Labor	1,400	5 months
Clayton County Water Authority (Morrow, GA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	550	4 months
Dougherty County/City of Albany (Albany, GA)	Upgrade/New Implementation	9.1	Payroll, HR, Time & Labor	1,760	4 months
Douglas County (Castle Rock, CO)	Upgrade/New Implementation	9.1	Payroll, HR, Time & Labor	1,500	4 months
El Paso County (Colorado Springs, CO)	Net New Implementation	8.12	Payroll, HR, Time & Labor, HR Self Service	3,500	6 months
Fox Broadcasting Company (Los Angeles, CA)	Net New Implementation	8.12	Payroll, HR, Time & Labor, HR Self Service	4,800	6 months
Honolulu Board of Water Supply (Honolulu, HI)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	400	6 months
K. Hovnanian Homes, LLC	Upgrade/New Implementation	8.10/ 9.1	Payroll, HR, Time & Labor, HR Self Service	1,500	6 months
King County Library System (Seattle, WA)	Net New Implementation	9.0	Payroll, HR, Time & Labor	1,137	5 months
Las Virgenes Water District	Net New	9.0	Payroll, HR, Time &	130	5 months

		JD Edwards Release	JD Edwards HCM Products	No. of Employee	Project Duration
(Calabasas, CA)	Implementation		Labor		
Metropolitan Airport Commission (Minneapolis, MN)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	1025	8 months
Metropolitan Government of Nashville and Davidson County (Nashville, TN) – *Not a Denovo client*	Net New Implementation	8.12/ 9.1	Payroll, HR, Time & Labor, HR Self Service	18,960	10 months
National Radio Astronomy Observatory (Charlottesville, VA)	Migration/New Implementation	8.12	Payroll, HR, Time & Labor, HR Self Service	625	8 months
New York State Bridge Authority (Highland, NY)	Upgrade	9.0	Payroll, HR, Time & Labor	210	4 months
North County Transit District (Oceanside, CA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	325	6 months
Oshkosh Corporation (Oshkosh, WI)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	12,300	8 months
Pinal County (Florence, AZ)	Migration/New Implementation	9.1	Payroll, HR, Time & Labor, HR Self Service	1,950	8 months (planned)
Polk County (Des Moines, IA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	1,200	6 months
Port of Houston Authority (Houston, TX)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	650	6 months (planned)
Port of Portland (Portland, OR)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	750	7 months
San Diego Regional Airport Authority (San Diego, CA)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	925	7 months
SBM Site Services, LLC (McClellan, CA)	Net New Implementation	8.12	Payroll, HR, Time & Labor, HR Self Service	5000+	8 months
Sheboygan County (Sheboygan, WI)	Net New Implementation	9.1	Payroll, HR, Time & Labor, HR Self Service	900	6 months
Spirent Communications, Inc. (Sunnyvale, CA)	Net New Implementation	8.12	Payroll, HR, Time & Labor, HR Self Service	3000	6 months
State of Nebraska (Lincoln, NE)	Migration/New	9.0	Payroll, HR, Time &	19,000	10 months

		JD Edwards Release	JD Edwards HCM Products	No. of Employee	Project Duration
	Implementation		Labor, HR Self Service		
Stewart & Stevenson (Houston, TX)	Upgrade	9.0	Payroll, HR, Time & Labor, HR Self Service	2,500	4 months
Sunrise Medical (Longmont, CO)	Migration/New Implementation	8.12	Payroll, HR, Time & Labor	4,500	5 months
Team Industrial Services, Inc. (Alvin, TX)	Migration/New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	64,000	9 months
Udelhoven, Inc. (Houston, TX)	Net New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	850	6 months
URS Corporation (San Francisco, CA)	Upgrade	8.12	Payroll, HR, Time & Labor, HR Self Service	56,000	7 months
Vancouver Port Authority (Vancouver, BC)	Upgrade/New Implementation	9.0	Payroll, HR, Time & Labor, HR Self Service	600	5 months

Client References

Denovo is pleased to provide the following client references for Cook County, which illustrate our experience with similar services, public sector clients of similar size as Cook County, and with the latest JD Edwards EnterpriseOne 9.1 release:

Client Name and Location	Sunrise Medical, Longmont, CO
Contact	James Dorvee, VP, IT, 303.218.4461, jim.dorvee@sunmed.com
Software Release	JD Edwards EnterpriseOne 8.12 (for HCM) and 8.0 (for Financials/PO)
Number of Employees	4,500 Employees
Current Services Being Provided by Denovo	Cloud Computing, CNC Managed Services, Service Desk Support
JD Edwards EnterpriseOne Modules Implemented	Technology Foundation for JD Edwards, System Foundation, Financials (GL, AP, AR, Fixed Assets, Budgeting), Purchasing and Subcontract Management, Inventory Management, Payroll, Human Resources, Time and Labor, HR Self-Service

Client Name and Location	Crocs, Niwot, CO
Contact	Brian Horsman, Sr. Director, IT, 303.848.7217, bhorsman@crocs.com
Software Release	JD Edwards EnterpriseOne 8.11
Number of Employees	4,800 Employees
Current Services Being Provided by Denovo	Cloud Computing, CNC Managed Services, Service Desk Support, Fusion Middleware Hosting and Integration Services, JD Edwards Application Development Services
JD Edwards EnterpriseOne Modules Implemented	Oracle Technology Foundation for JD Edwards, System Foundation, Financials (GL, AP, AR, Fixed Assets, Budgeting), Purchasing and Subcontract Management, Inventory Management

Client Name and Location	State of Nebraska, Lincoln, NE
Contact	Lacey Pentland, NIS, 402.471.1462, Lacey.Pentland@nebraska.gov
Software Release	JD Edwards EnterpriseOne 9.0
Number of Employees	19,000 Employees
Current Services Being Provided by Denovo	Upgrade B7322 to JD Edwards EnterpriseOne CNC Support Services, Functional Support Services, and Application Development Services
JD Edwards EnterpriseOne Modules Implemented	Technology Foundation for JD Edwards, System Foundation, Financials (GL, AP, AR, Fixed Assets, Budgeting), Project Costing, Grant Management, Purchasing and Subcontract Management, Inventory Management, Payroll, Human Resources, Time and Labor, HR Self-Service, Manufacturing, OBIEE

Client Name and Location	Allegheny County and the City of Pittsburgh, Pittsburgh, PA
Contact	Tony Cholewinski, IS Manager, 412.350.4371, Tony.Cholewinski@AlleghenyCounty.US
Software Release	JD Edwards EnterpriseOne 9.0
Number of Employees	12,000+ Employees
Current Services Being Provided by Denovo	Upgrade from B7332 to JD Edwards EnterpriseOne Systems Migration Services (JDE Shared Services for multiple agencies, municipalities and counties), Implementation and Upgrade Services, Functional Support Services, and Application Development Services
JD Edwards EnterpriseOne Modules Implemented	Technology Foundation for JD Edwards, System Foundation, Financials (GL, AP, AR, Fixed Assets, Budgeting), Project Costing, Grant Management, Purchasing and Subcontract Management, Inventory Management, Payroll, Human Resources, Time and Labor

Client Name and Location	Alaska Railroad Corporation, Anchorage, AK
Contact	Mike Schuh, Project Manager, 907.770.7206, schuhm@akrr.com
Software Release	JD Edwards EnterpriseOne 9.1
Number of Employees	850 Employees
Current Services Being Provided by Denovo	New Implementation and support services (full JD Edwards EnterpriseOne 9.1 Financials, Projects, Grants, Human Resources, Payroll, HR Self-Services, Purchasing, Requisition Self-Service, Capital Asset Management, Sales Order Management, Real Estate Management, Inventory Management)
JD Edwards EnterpriseOne Modules Implemented	Technology Foundation for JD Edwards, System Foundation, Financials (GL, AP, AR, Fixed Assets, Budgeting), Project Costing, Grant Management, Purchasing and Subcontract Management, Inventory Management, Payroll, Human Resources, Time and Labor, HR Self-Service, Real Estate, One View Reporting

Customer Name	American State Water (Golden State Water)
Customer Contact Name, Title, Address, Phone, Fax, and E-mail	Mark Davidson, Project Manager 630 East Foothill Blvd, San Dimas, CA 92773 (909) 304-3600 markdavidson@gswater.com
Software Release	JD Edwards EnterpriseOne 9.0
Number of Employees	850 Employees
Services Provided by Denovo	Upgrade JD Edwards World to JD Edwards EnterpriseOne Denovo had complete responsibility for managing and executing the following projects: JD Edwards World A73 to JD Edwards EnterpriseOne 9.0 Upgrade. JD Edwards EnterpriseOne 9.0 Integration with Oracle CC&B , JD Edwards EnterpriseOne 9.0 Support Services - ONGOING
Modules implemented	Oracle Technology Foundation for JD Edwards EnterpriseOne, System Foundation, General Accounting, Budgeting & Planning, Accounts Payable, Accounts Receivable, Fixed Assets, Project Costing, Utility Billing, Purchasing and Subcontract Management, Self-Service Requisitions, Inventory Management, Payroll, Time and Labor, Human Resources, HCM Self-Service, BI Publisher, UPK

Denovo

Customer Name	Minneapolis-St. Paul Metropolitan Airports Commission (MAC)
Customer Contact Name, Title, Address, Phone, Fax, and E-mail	Dave Ruch, Director IS 6040 28th Avenue South, Minneapolis, MN 55450 (612) 726-8168 David.Ruch@mspmac.org
Software Release	JD Edwards EnterpriseOne 9.0.2
Number of Employees	1025 Employees
Project(s) and Status	Upgrade JD Edwards World A73 to JD Edwards EnterpriseOne 9.0.2 Denovo has complete responsibility for managing and executing the following projects: JD Edwards World A73 to JD Edwards EnterpriseOne 8.12 Migration and Implementation, JD Edwards EnterpriseOne Capital Asset Management Implementation, JD Edwards EnterpriseOne Requisition Self-Service Implementation. JD Edwards EnterpriseOne 8.98.4 Tools Release Upgrade, JD Edwards EnterpriseOne 8.12 to 9.0.2 Upgrade, JD Edwards EnterpriseOne Managed Services
Modules implemented	Technology Foundation for JD Edwards EnterpriseOne, System Foundation, Financials (G/L, A/P, A/R, FA, Budgeting) Project Costing, Contract/Service Billing, Purchasing, Inventory Management, Requisition Self-Service, Sales Order Management, Work Orders, Capital Asset Management, Real Estate/Property Management, Time and Labor, Payroll, Human Resources, HCM Self-Services

Customer Name	City of Lubbock, Texas
Customer Contact Name, Title, Address, Phone, Fax, and E-mail	Mark Yearwood 916 Texas Avenue, Lubbock, Texas 79457 (806) 775-2355 MYearwood@mail.ci.lubbock.tx.us
Software Release	JD Edwards EnterpriseOne 9.0
Number of Employees	1800 Employees
Project(s) and Status	Upgrade JD Edwards World A73 to JD Edwards EnterpriseOne 9.0 Denovo had complete responsibility for managing and executing the following projects ,JD Edwards World A73 to JD Edwards EnterpriseOne 9.0 Migration and Implementation, JD Edwards Enterprise One Support Services
Modules implemented	Oracle Technology Foundation for JD Edwards EnterpriseOne, System Foundation, General Accounting, Budgeting & Planning, Accounts Payable, Accounts Receivable, Fixed Assets, Project Costing, Utility Billing, Purchasing and Subcontract Management, Self-Service Requisitions, Inventory Management, Payroll, Time and Labor, Human Resources, HCM Self-Service, BI Publisher, UPK

Reference Organization	Dougherty County/City of Albany
Contact Name and Position	Elaine Hinman, Deputy Director John V Antoniewicz, Director, Department of Information Technology
Address	225 Pine Avenue, Room 106 Albany, Georgia 31701
Phone and E-Mail	(229) 431-2141 ehinman@albany.ga.us 229-431-2141 jantoniewicz@albany.ga.us
Population	94,788 County / 77,683 City
Customer Lifecycle	May 2007 - Present
Computer Installed on	Hardware: IBM i-Series, upgrading to Windows/SQL Database: IBM DB2/400, upgrading to SQL Server Database Operating System: OS/400, upgrading to Windows Operating System: IBM Websphere
Brief Summary of Project and Types of Products and Services Provided	Upgrade JD Edwards World A73 to JD Edwards EnterpriseOne 8.12 Go live of JD Edwards EnterpriseOne 8.12 was completed in 2008. Initially we migrated City of Albany from JD Edwards World A7.3 to JD Edwards EnterpriseOne 8.12. Then the decision was made to include it as Dougherty County and City of Albany combined. Change orders were approved to extend consulting services through July 2009 to complete Go-Live and Post Go-Live support. Upgrade from 8.12 to 9.1 is planned with Denovo for 2013.
Additional Information	388 named users, 50 concurrent users. Currently using modules: General Ledger, Accounts Payable, Accounts Receivable, Fixed Assets, EAM Management, Human Resources, Payroll, Job Cost, Procurement, XML, Reporting, BI Publisher

3. Scope of Services

Denovo believes upgrading Cook County's JD Edwards World to JD Edwards EnterpriseOne is the ideal solution for addressing issues and mitigating risk resulting from Cook County's utilizing non-Vendor supported payroll, human resources, and payroll tax software products. It will provide significant benefits to the process stakeholders, the JD Edward World user and Cook County as a whole. This is a low risk solution that can be deployed in a short amount of time with minimal disruption to Cook County's operation.

This project will result in significant process improvements and will address many of the current "pain points" with current processes that were recently communicated to Denovo by key Cook County stakeholders. This option also provides a vendor-supported software solution hosted and maintained by Denovo for as long as Cook County desires and with an ongoing opportunity to take advantage of continuing enhancements to functionality and system usability as they are made available by Oracle. We believe that the JD Edwards EnterpriseOne option represents a solution that adds the most value to Cook County in areas of user productivity and satisfaction at a relatively small investment.

The scope of services being proposed falls into two broad categories:

- Subscription Licensing
  - Software Licensing of JD Edwards EnterpriseOne necessary to replace Cook County's JD Edwards World instance
  - Infrastructure components including an MPLS link between Denovo's data center, the disaster recovery data center and the Cook County's data center (up to the point where the firewall terminates on Cook County's network.)
  - Customer Care Services providing a 24 hour, 7days a week manned service desk and a customer service portal.
  - Technical Managed Services remotely supporting Cook County users using Denovo technical resources for regular system maintenance activities.
  - Application Managed Services remotely supporting Cook County users using Denovo application resources for production issue resolution activities.
  - Disaster Recovery using Denovo's traditional disaster recovery model to provide disaster recovery services to Cook County in the event that a disaster recovery event occurs.
- Implementation Services
  - Denovo consulting expertise to project manage, install, upgrade, configure, test, and deploy the implemented software and migrated JD Edwards World data to JD Edwards EnterpriseOne in the Denovo Cloud.
  - Denovo consulting expertise to manage, configure, test, deploy, and train users on software products previously not available in JD Edwards World; including Employee/Manager Self-Service, One View Reporting, Electronic Workflow, and BI Publisher.
  - Denovo consulting expertise to evaluate, develop, unit test, and deploy the current custom modifications to Cook County's JD Edwards World into JD Edwards EnterpriseOne in Denovo's Cloud. This includes the necessary interfaces between Payroll and Human Resources and various banks, benefit providers, government agencies, the legacy timecard uploads, and other interfaces required in the normal due course of these processes. During the course of evaluating each modification, improvements to these modifications will be evaluated for inclusion.
  - Preparation of testing, system, user, and training documentation and other deliveries as outlined in the responsibility matrix.

- Denovo consulting expertise to define, develop, unit test, deploy and maintain the batch interfaces between JD Edwards EnterpriseOne in the Denovo Cloud to Cook County's legacy JD Edwards OneWorld (B7332) Financials.
- Net change training of the differences between JD Edwards EnterpriseOne and JD Edwards World, new products and functionality for Cook County JD Edwards World users via Denovo led training workshops or other training vehicles as identified by the project team.
- Denovo consulting expertise to define, develop, unit test, deploy an contingency plan for using JD Edwards World to produce pay checks after December 31, 2013.

Subscription Licensing

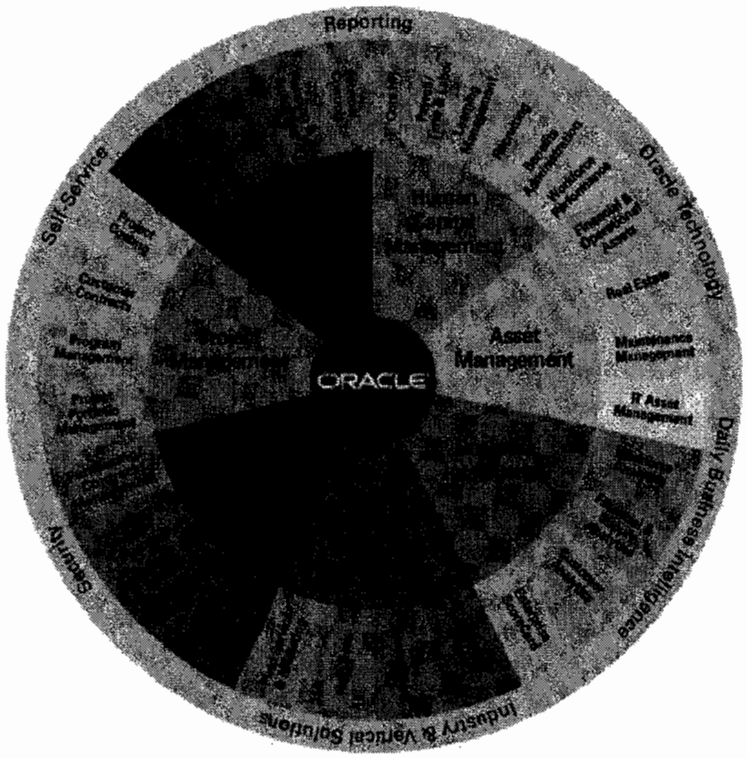
Software

Under the software component of the subscription licensing Cook County will receive:

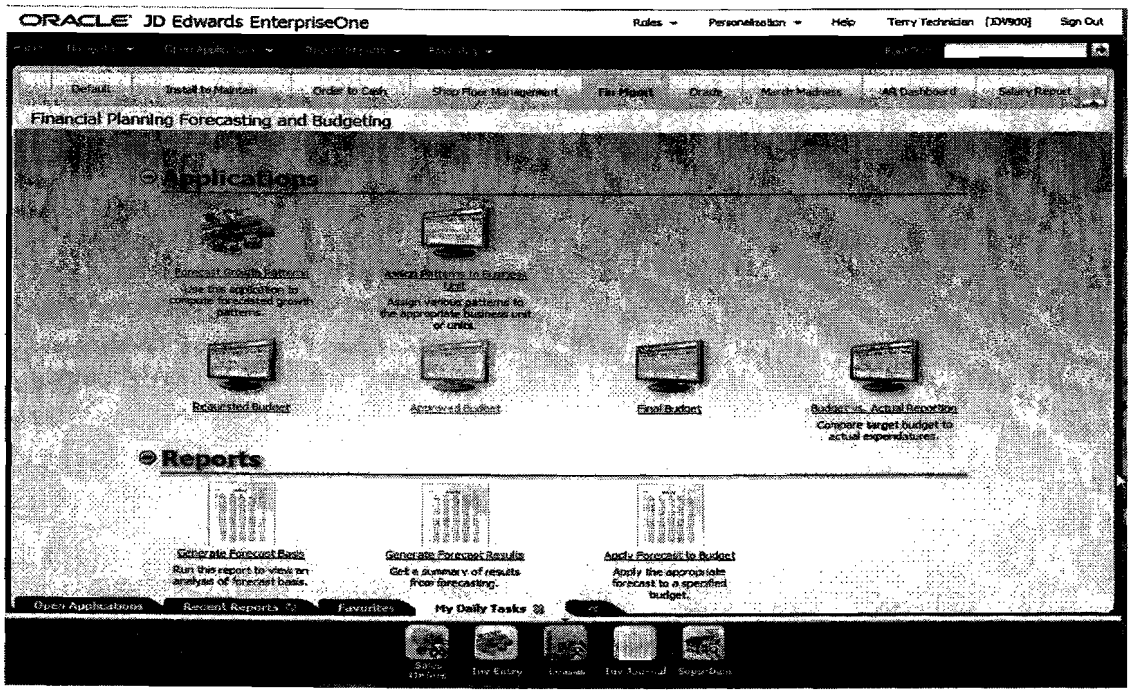
- Oracle BPO licensing to JD Edwards EnterpriseOne
- Standard annual Oracle Call Center Support
- Access to Oracle provided updates including toolset updates, ESU's and Year-end processing updates

JD Edwards EnterpriseOne

JD Edwards EnterpriseOne became generally available in April 2012. It is a modern, highly flexible, and tightly integrated suite of applications to automate the organizations business operations. This 100% web browser-based solution seamlessly integrates with third party legacy systems, thus streamlining current processes and eliminating the need for redundant manual efforts. JD Edwards EnterpriseOne provides comprehensive, consistent, and user-friendly suites of applications with key functionality built specifically for the Public Sector, as illustrated in the following system diagram:



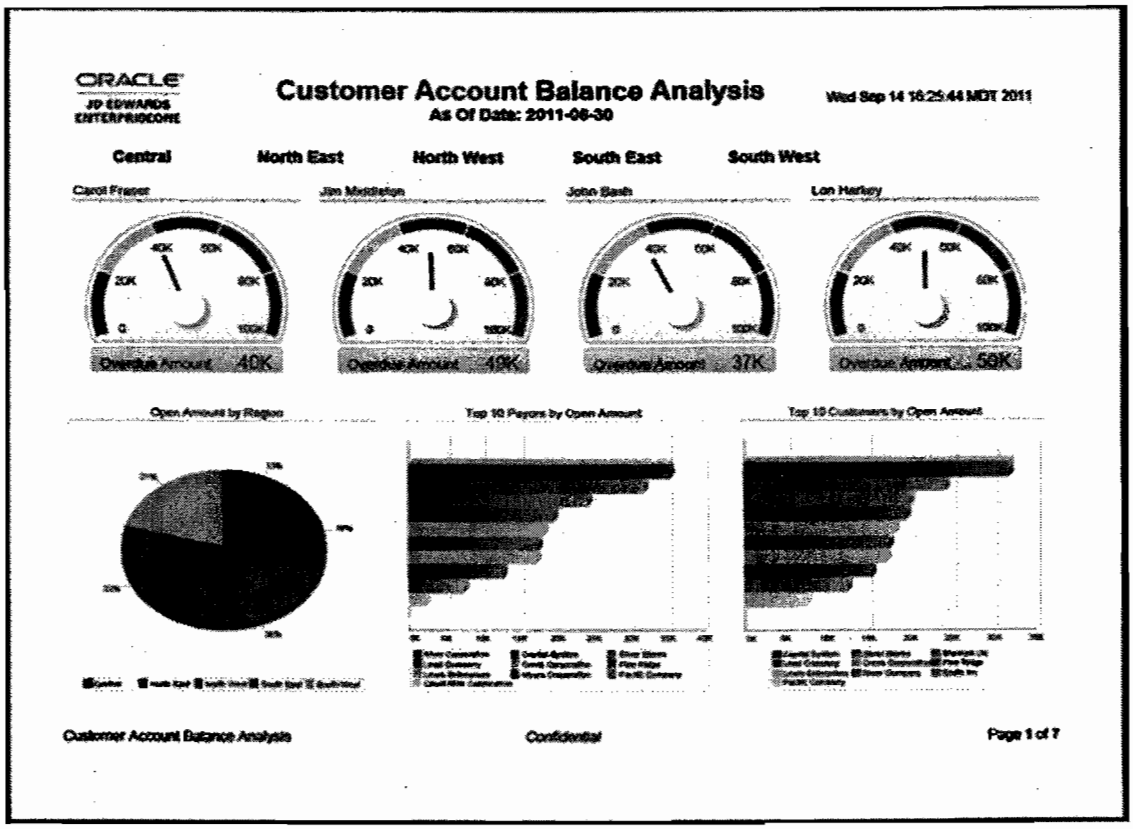
The JD Edwards EnterpriseOne user interface is highly intuitive that promotes efficiency and provides the flexibility to tailor the user experience based on each individual's requirements and preferences, as illustrated below:



Modules, Features, and Functionality

There are several general capabilities available across JD Edwards EnterpriseOne which address requirements for automation, mobility and promote increased user productivity, including the following examples:

- System-wide electronic Workflow – Enables you to automate high-volume, formerly paper-based processes into an email-based process flow across a network. Documents, information, and tasks pass from one participant to another for action based on a set of procedural rules. The result is an automated and efficient process with minimal user involvement, which enables you to streamline the existing business processes, increase efficiency, and reduce process time. JD Edwards EnterpriseOne workflow enables a user to access workflow messages or tasks from email or the user's work center.
- Deployment on mobile devices – All JD Edwards EnterpriseOne applications are available on mobile devices, including natively on iPads and other tablets, as well as smart phones (Android, Microsoft, Blackberry, and Apple.)
- Media Object Attachments and Text – Users are able to attach an unlimited number and type of electronic documents to any system record and can also enter unlimited numbers and length of notes and comments to any system record. These notes are searchable and contain the Word functions (fonts, colors, spell check, etc.)
- Integration with office tools – Can import/export to/from any office tool (such as Word and Excel) and through mail merge are able to integrate system data with Word documents and templates (such as for HR letters.)
- User-friendly ad hoc reporting – User-friendly dashboard reporting through simple "copy/paste" commands, CSV output for standard reports, and the easy-to-use JD Edwards EnterpriseOne One View Reporting tool.



- Embedded BI Publisher – Templates for forms (checks, auto-pay advices, W2s, etc.) and "picture perfect" documents (budget reports, CAFR, etc.)
- Interoperability Solution to simplify interfaces –Interoperability makes it simple to create and maintain interfaces between JD Edwards EnterpriseOne and any other third party solution and provider.

Proposed Software Products

The following JD Edwards EnterpriseOne 9.1 and other Oracle Products are included in our proposed scope of work:

- Oracle Technology Foundation for JD Edwards EnterpriseOne 9.1
- JD Edwards EnterpriseOne 9.1 System Foundation
- JD Edwards EnterpriseOne 9.1 Time and Labor
- JD Edwards EnterpriseOne 9.1 US Payroll
- JD Edwards EnterpriseOne 9.1 Human Resources Management
- JD Edwards EnterpriseOne 9.1 Human Resources Self-Services (Employee and Manager)
- JD Edwards EnterpriseOne 9.1 Health and Safety Incident Management *
- JD Edwards EnterpriseOne 9.1 Financial Management (limited use)
- JD Edwards EnterpriseOne 9.1 One View Reporting Foundation
- JD Edwards EnterpriseOne 9.1 One View for Payroll
- JD Edwards EnterpriseOne 9.1 One View for Human Resources
- JD Edwards EnterpriseOne 9.1 One View for Health and Safety Incident Management *

- JD Edwards EnterpriseOne 9.1 One View for Financials
- Oracle User Productivity Kit Professional (UPK)
- Oracle User Productivity Kit Developer (UPK)
- Vertex Payroll Tax Q Series

* These modules will be implemented at a future time and are not included in the scope of this project.

Description of Proposed Software Products

JD Edwards EnterpriseOne provides a robust suite of Human Resources and Payroll applications that is able to replace Cook County's JD Edwards World with enhanced functionality and additional applications to support your Payroll, and Human Resources processes. A summary of the JD Edwards EnterpriseOne products we are proposing for Cook County include:

Suite/Module (Release)	Description
JD Edwards EnterpriseOne Tools and Technology Suite	
The JD Edwards EnterpriseOne Tools and Technology Foundation suite provides the backbone for the complete set of the JD Edwards EnterpriseOne applications. With this common applications set all modules can readily integrate their operations. These core business processes are the key to the architectural design of JD Edwards EnterpriseOne.	
Oracle Technology Foundation for JD Edwards EnterpriseOne	Oracle Technology Foundation for JD Edwards EnterpriseOne provides all the software components needed to run JD Edwards EnterpriseOne applications. Designed to help reduce integration and support costs, the Oracle Technology Foundation for JD Edwards EnterpriseOne is a complete package of integrated open standards software products that enable you to easily implement and maintain your JD Edwards EnterpriseOne applications. Oracle Technology Foundation consists of Oracle Database 11g, Oracle Fusion Middleware, and JD Edwards EnterpriseOne Tools. Clients who choose to run JD Edwards EnterpriseOne on Microsoft SQL database or IBM's DB2 database must license their database separately.
JD Edwards EnterpriseOne System Foundation Suite	
JD Edwards EnterpriseOne System Foundation uses a common set of applications to support core business operations across the entire product line. With it, all modules easily integrate their operations. Required for all installations, these core business processes are the key to the architectural design of JD Edwards EnterpriseOne.	
Address Book Foundation	A central repository in JD Edwards EnterpriseOne of all records that manage individuals (employees, dependents), vendors, clients, facilities, and other entities.
Work Orders	A flexible tool for managing project, service, and maintenance requests. Work Orders integrate with several JD Edwards EnterpriseOne products, including Financials, Project Management, Supply Management, Capital Asset Management, and Human Capital Management
EDI Foundation	Provides tools for EDI transaction management.
Interoperability Foundation	Provides tools for simple and seamless integration of third party systems with JD Edwards EnterpriseOne. These tools automatically format data to be extracted and validate incoming data prior to creating records in JD Edwards EnterpriseOne tables.

Suite/Module (Release)	Description
Electronic Mail Foundation	Used with system-automated workflow common tools to facilitate e-mail notification and other related activities.
Security Administration Foundation	Provides a comprehensive set of database and application security tools for JD Edwards EnterpriseOne.
Media Objects Foundation	Provides records management tools in the form of attachments and links to documentation that support JD Edwards EnterpriseOne processes.
MailMerge Workbench	Provides the ability to merge Microsoft Word 6.0 (or higher) word processing documents with JD Edwards EnterpriseOne records to automatically print business documents, such as form letters.
Grid Data Import/Export Foundation	Provides the ability to upload/download data into or from an JD Edwards EnterpriseOne interactive data grid.
Development Tools Foundation	Provides graphical tools for developing JD Edwards EnterpriseOne applications and reports.
Order Processing Foundation	Handles order processing transactions in concert with modules that process orders (such as requisitions, purchase order, sales orders, etc.
Self-Service Foundation	Provides the core functionality for all JD Edwards EnterpriseOne self-service modules.
Self-Service Order Processing Foundation	Integrates order processing transactions with associated self-service functionality.
Work Order Foundation	Handles and integrates work order-related transactional activities across the individual products that directly or indirectly access work orders.
JD Edwards EnterpriseOne Human Capital Management	
The JD Edwards EnterpriseOne Human Capital Management (HCM) system is a tightly integrated suite of applications which will automate your payroll and human resources processes. This solution seamlessly integrates with all other JD Edwards EnterpriseOne systems, thus streamlining current processes and eliminating the need for redundant manual efforts.	
Payroll	Will streamline your payroll processes, reduce processing time, and ensure greater payroll accuracy across the enterprise—all with security that protects your most sensitive information. Changes to employee HR and benefit information are immediately reflected throughout the system ensuring that each paycheck and report is up to date.
Time and Labor	Simplifies many of the processes associated with timecards, automatically calculating retroactive pay, overtime, bonuses, regular pay, leave management, and more. It is integrated with JD Edwards Employee and Manager Self-Service applications to permit employees the capability of entering their time from any computer with Web access. The software also provides the option of uploading timecard information from a variety of other sources.
Human Resources	A comprehensive application for managing your entire employee lifecycle. It streamlines routine activities and brings consistency and accuracy to HR processes and procedures, such as workforce planning, applicant tracking position control, benefits administration, employee development, performance management, and

Suite/Module (Release)	Description
	competency management.
Human Resources Self-Service	Provides employees and managers the capability of completing tasks online through your intranet site. Self-service reduces the handling of documents between employees, managers, and the human resources department by allowing employees to access information, forms, and services through desktop computers. For example, employees can use self-service to review and update personal data and enroll in benefits online. When employees update information through self-service, the changes made by the employee can be posted to a temporary work file, where a supervisor can review the changes before posting them to the employee database. The solution supports a number of some of the standard online employee and manager functions, including:
	Employee-based / **Manager-based**
	Human Resources • Enroll in benefits (open enrollment). • Enroll in benefits (based on life events. • Review employee personal profile information. • Enter or revise competency information. • Request a verification of employment letter. • Enter automatic deposit information. • Review and change dependents and beneficiaries information. • Complete self-appraisal. • Change daily diary entries *Payroll* • Review pay stubs. • Review and request leave time. • Review and update IRS Form W-4. • Review and print W-2 forms *Time and Labor* • Enter timecards • Review timecard information
	• Use Managers workbench. • Change an employee status. • Enter data for verification-of employment letters. • Create/review Organizational charts. • Manage compensation. • Run managers reports. • Assign delegates. • Perform employee reviews. • Approve competency information. • Request employee competency changes. • Review historical/current performance appraisals. • Review and approve self-service timecards
JD Edwards EnterpriseOne Health and Safety Incident Management	
The JD Edwards EnterpriseOne Health and Safety Incident Management module provides you with a	

Suite/Module (Release)	Description
comprehensive solution to track and manage incidents of all types. Health and Safety Incident Management is fully integrated with other key JD Edwards EnterpriseOne applications, including those that support the management of human capital, inventory, and assets. With JD Edwards EnterpriseOne Health and Safety Incident Management, you will be able to put incident management practices in place that will streamline the process and provide insight that can be turned into actions that reduce or eliminate occupational incidents This module will be implemented in the future and is not included in the scope of this project.	
JD Edwards EnterpriseOne One View Reporting	
One View Reporting enables users to access and personalize real-time transaction data into lists, charts, graphs and tables thus simplifying the consumption of information. Casual and power users alike will appreciate the simple yet robust, integrated reporting capabilities available with all JD Edwards EnterpriseOne applications.	
One View Reporting Foundation	One View Reporting Foundation provides all of the tools necessary to create your own dashboards, either utilizing the hundreds of available templates or building them from scratch.
One View Reporting for Human Resources	JD Edwards EnterpriseOne One View reporting for Human Resources enables you to quickly pinpoint the information you need to gain insight and better manage your workforce. With it, you can analyze a wealth of workforce information including, workforce demographics, compensation and benefits, and salary and performance rankings.
One View Reporting for Payroll	Oracle's JD Edwards EnterpriseOne One View reporting for Payroll delivers a set of high-value reports to help keep payroll operations on track. Flexible options enable users to report over labor, benefits, deductions, accruals, or taxes to better understand payroll costs and trends.
One View Reporting for Financials	Oracle's JD Edwards EnterpriseOne One View for Financials gives you insight into critical financial information, including accounts receivable, accounts payable and general ledger. With access to real-time data and an intuitive interface, you can view and analyze financial data to optimize the financial health of your organization.
One View Reporting for Health and Safety Incident Management	One View Reporting for Health and Safety Incident Management provides you the tools to analyze incidents on a myriad of dimensions to gain valuable insight into the who, what, where, when, and why for your incidents, as well as calculate the important incident safety statistics This module will be implemented in the future and is not included in the scope of this project.
Oracle's User Productivity Kit (UPK)	
User Productivity Kit (Oracle's UPK)	A collaborative content development platform that allows enterprises to drive user productivity and mitigate risk throughout all phases of the software ownership lifecycle. UPK delivers real value to JD Edwards EnterpriseOne, including: system process documentation for fit-gap analysis - providing time and cost savings that jump-start your implementation or upgrade, user acceptance test scripts to help test Oracle applications prior to go-live, state-of-the-art instructional design tools to rapidly build and tailor documentation, instructor-led training materials, web-based training to fit organizational needs, and live-application performance support with transactional and procedural information to maximize user efficiency.

Suite/Module (Release)	Description
JD Edwards EnterpriseOne Financial Management Suite (Limited Scope to Support Interfaces with Cook County's Legacy JDE)	
The JD Edwards EnterpriseOne Financial Management system from Oracle provides a versatile, cost-effective, and timesaving solution for managing enterprise financial information. The systems that make up the JD Edwards EnterpriseOne Financial Management system are fully integrated with other JD Edwards EnterpriseOne suites.	
General Accounting	Manages enterprise financial activities in JD Edwards EnterpriseOne. Relative functionality includes defining of your chart of accounts, business units, and business unit accounts, creation, approval, and posting of journal entries (including accruals, voids, recurring journals, and allocations), repeatable running of monthly and annual close processes, tracking of encumbrances, performing consolidations, and inquiry/reporting capabilities.
Accounts Payable	Provides comprehensive tools for your Accounts Payable department to ensure that payments are made on time and the needs for Accounts Payable flexibility in the organization are met. Capabilities: management of supplier relationships (including flexible payment terms and payment instruments), processing invoices (including voucher entry, voucher matching to purchase orders, progress payment requests for contracts, etc.), automatic encumbrances relieving, processing payments (including discounts and retainage), cash management, interoperability for purchasing card management, and standard inquiries and reports.
Accounts Receivable	Provides automated tools to streamline the Accounts Receivable processes. Capabilities include: invoicing, cash management, credit and collections, cash application, auto-bank reconciliation, interoperability for cashiering, and various inquiries and reports.
Planning and Budgeting	Provides the ability to develop, analyze, refine, and approve annual budgets, as well as to forecast variances. The module also includes a simple tool which provides the ability to import budget information from spreadsheets and other third party systems
Financial Reporting	Provides a number of standard financials and government reports, and an easy to use graphical tool for creating custom financial reports in your required format.
Fixed Assets	Provides flexibility and control of the fixed-asset accounting lifecycle, from acquisition and depreciation to revaluation and eventual disposal. Capabilities include: quick asset set up, detailed data capture, and sophisticated depreciation methods, thus ensuring compliance with government mandated depreciation rules.

Infrastructure and Network Connectivity

Under the infrastructure and network connectivity component of the subscription licensing Cook County will receive:

- Infrastructure (servers, networks, etc.) within the Denovo Colorado data center
- 24/7 infrastructure monitoring, alert and security services
- Operating system (OS) patches and upgrades

Overview

Today's businesses depend upon "always available" access to your enterprise systems. Downtime of either internal or external applications even for a minute can mean lost revenue as well as business partner and client

loyalty. Denovo has experience supporting not only JD Edwards applications but also a wide variety of other enterprise applications, including: Create!Form, Reports Now, ADP, Sterling, EDI, Manhattan, ReportsNow, and Fusion Integration.

Residing in the Denovo data center:

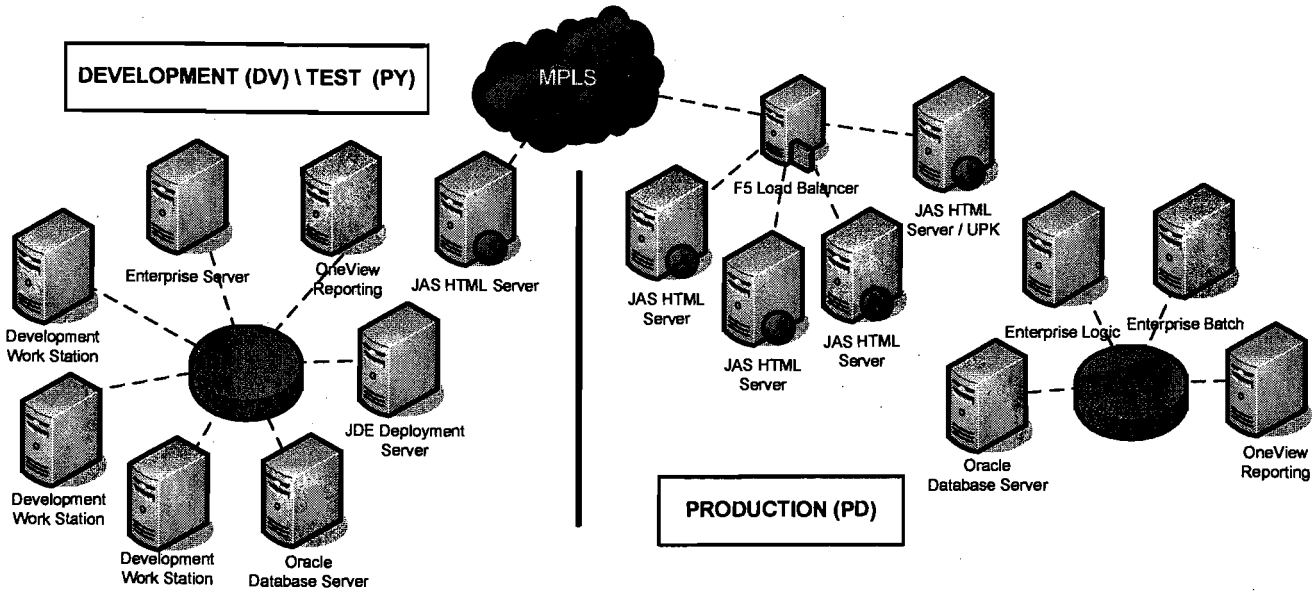
- Alleviates the responsibility of staffing, operating and maintaining power and cooling infrastructure which distracts from your business's mission
- Provides your business with Uptime Service Level Agreements (SLAs) because data center operations are Denovo's core competency
- Provides top-tier facilities engineered and maintained at higher standards as compared to most in-house data centers
- Helps you to meet expanding compliance requirements regulations
- Saves your business from the high costs of building out your own data center; smaller scale data centers often have a higher build cost per square foot due to lack of economies of scale
- Allows for quick expansion of power, cooling and bandwidth to support growing IT systems requirements without having to spend significant amounts of capital to expand or upgrade data center infrastructure
- Gives you the most flexible contract in the industry so you can adjust and evolve as your business changes

As a leading provider of data center hosting and managed services, you should expect to receive excellent service from Denovo's Colorado data center including solutions that easily scale with your critical IT business needs. Denovo's Colorado data center facility is built to meet the needs of the most demanding IT environment including:

- 3 layers of security with biometrics and video surveillance
- Fully redundant power
- Configured uninterruptible power systems
- On-site diesel-powered generators
- High density power handling
- N+1 configured cooling systems
- 20-ton and 30-ton Computer Room Air Conditioners units
- Multi-layer security and monitoring systems
- 24/7/365 staffing

Security will be monitored continuously. Denovo uses standard code migration paths and methodology to manage its clients' data. Full change management processes, especially those related to security ensures that any security modifications are approved by the Cook County before they are applied. The Cook County systems are protected against system and data breach and Cook County's JD Edwards EnterpriseOne instance will be segregated in a private cloud. Details are provided in our SOC report which is audited by a third party once a year.

Infrastructure Server Configuration



The proposed JD Edwards EnterpriseOne in the Denovo Cloud for Cook County is comprised of the following servers:

Server Purpose	Service Quantity, Type, and Description
PD Database Server	1 Intel based Virtual Server(s)/Workstation(s) with 8 CPU's, 32 GB memory and 500 GB of SAN Storage (Tier 1)
DV Database Server	1 Intel based Virtual Server(s)/Workstation(s) with 4 CPU's, 16 GB memory and 1000 GB of SAN Storage (Tier 2)
PD Enterprise/Batch Server	1 Intel based Virtual Server(s)/Workstation(s) with 4 CPU's, 12 GB memory and 100 GB of SAN Storage (Tier 1)
PD Enterprise/Logic Server	1 Intel based Virtual Server(s)/Workstation(s) with 4 CPU's, 16 GB memory and 100 GB of SAN Storage (Tier 1)
DV Enterprise	1 Intel based Virtual Server(s)/Workstation(s) with 4 CPU's, 16 GB memory and 100 GB of SAN Storage (Tier 2)
PD Weblogic Server	3 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 6 GB memory and 100 GB of SAN Storage (Tier 2)
DV Weblogic Server	1 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 6 GB memory and 100 GB of SAN Storage (Tier 2)
PD One View Report Server	1 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 8 GB memory and 100 GB of SAN Storage (Tier 2)
DV One View Report Server	1 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 6 GB memory and 100 GB of SAN Storage (Tier 2)
Deployment Server	1 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 4 GB memory and 200 GB of SAN Storage (Tier 2)
Workstation	2 Intel based Virtual Server(s)/Workstation(s) with 2 CPU's, 4 GB memory and 80 GB of

Server Purpose	Service Quantity, Type, and Description
	SAN Storage (Tier 2)

Network Connectivity

Denovo is providing a MPLS circuit that will link the Denovo Colorado data center with Cook County's data center and the Disaster Recovery Site. Currently we anticipate the size of this Circuit to be 3 meg. And during the HR/JDE Upgrade project a stress test will be performed to insure that the sizing will support the County's production bandwidth requirements.

To validate the size of the MPLS circuit we will develop a benchmark for various users of the HR/PR system, i.e. time entry clerk, ESS user, Benefits coordinator, etc. There are a number of ways to benchmark this activity. The most likely scenario will involve developing test scripts to simulate the user workload and have someone execute those scripts while measuring the bandwidth activities. These results will then be entered into a model that will estimate the average workload, minimum workload and maximum workload. This information, along with Oracle white papers on this topic, will be the basis of the final sizing estimate of the MPLS circuit prior to going live.

In the event the MPLS circuit fails, a backup plan will be developed, reviewed, documented and approved as part of the infrastructure services. The most likely scenario would involve one or more dedicated router appliances at each end, likely with IPSec crypto capability, with which we could forge a LAN to LAN VPN connection with Cook County over the public Internet.

Infrastructure Support Services

Denovo has strengthened and expanded Colorado data center team to provide experienced support for the entire technology stack from an enterprise perspective. Each week, we bring the entire team together (leads from network, OS, storage, virtualization, database, and application) to discuss client projects, performance, internal projects, and activities from the prior week as well as key activities for the upcoming week. As part of this process, we leverage internal support systems including SharePoint and our Service Desk toolset (Service Now) to track and communicate key issues and topics.

Infrastructure Monitoring

Denovo provides 24/7/365 monitoring of infrastructure, database, and application health metrics. Warning and critical alerts are logged and routed to the appropriate resource team(s) that may reside in the United States or be located in our offshore location, for review and resolution. Problem escalation and communication back to Cook County will be based on predefined SLA's and communication process flows that will be defined and documented as part of the Statement of Work.

Denovo's monitoring software includes advanced application monitoring solution that can monitor the entire technology stack affecting performance — application server, database, operating system, Web server, and network, and alert Denovo to actual or potential problems before it impacts Cook County.

Denovo can monitor Cook County applications from a single tool. Our Nimsoft monitoring software is an industry-leading integrated application performance monitoring solution that simplifies management of the application server, the user transactions running through it, and the underlying infrastructure. It provides advanced diagnostics, analytics and expert advice so Denovo can proactively resolve problems.

Denovo monitoring capabilities provides a 360-degree view of applications to proactively detect, diagnose to the root cause and resolve performance and availability problems. A summary of the capabilities of this software is as follow:

- *Service Level Management* – Involves integration of disparate IT technology components into a service representation that describes the Service Level delivered.

- *User Experience Management* – To maintain high levels of online service quality, to ensure that online end users receive the best possible experience Denovo will work with Cook County to develop an application and services management strategy.
- *Application Monitoring and Diagnostics* – Application and IT managers can understand end-user service levels for their critical business applications.
- *Database Monitoring and Diagnostics* – Span multiple database platforms, including Oracle, SQL Server, DB2 LUW and Sybase, to provide a true enterprise solution for database performance and availability.
- *Physical Infrastructure Monitoring* – Control and connect the infrastructure that supports critical application services including the network, operating systems and other components.
- *Virtual Infrastructure Monitoring* – Understand the virtual infrastructure by managing all views of the virtual environment including the data center, cluster, resource pool, ESX servers and virtual machines, while correlating all the virtualization activity with the rest of the application environment.
- *Network System Management* – Auto-discover and manage network resources and their metrics, including hardware, operating systems, virtualization, databases, middleware, applications, and services.

After pre-Production acceptance testing is completed, and before Production cutover occurs, Denovo and Cook County will define a reference set of agreed upon OLTP queries to run every 10 minutes. This will be measured within the Denovo data center. Cook County can elect to measure the performance from a Cook County site if they wish. The performance stats will be available in the customer portal 24x7.

Infrastructure Management

Denovo maintains its data center infrastructure to keep current on all the latest software patches, addition or removal, including operating system, and drivers. These patches are applied quarterly. As patches are made available they are reviewed for critical or security implications. When the nature of the patch is deemed appropriate Denovo applies the patch as soon as a maintenance window can be created.

Denovo also provides the following services to support Cook County in their use of the infrastructure:

- Creation/removal of user accounts required for access to development workstations.
- Creation/modification of scripts and/or batch files for log management, common tasks.
- Group policy creation or modification for Active Directory or system roles as required to access development workstations.
- Software package and licensing audits; as it relates to the JD Edwards EnterpriseOne in the Dnovo Cloud.

Access to Denovo's Cloud

Denovo typically will not provide remote access to Cook County's JD Edwards EnterpriseOne instance. The users must be logged into Cook County's network. Users accessing Cook County's network remotely is completely at Cook County's discretion. The technology used to remotely access Cook County's network is provided by Cook County according to Cook County's policy. Once on Cook County's network, the user will be able to navigate to the Denovo Cloud to access JD Edwards EnterpriseOne.

Security

Denovo maintains a 3-tiered security program to protect Cook County's JD Edwards EnterpriseOne asset. This program is fully described in the Current Audit Report and the Security Policy. Denovo will allow Cook County to modify the security program to the extent that such configurations enforce a user access program that does not use controls materially less protective than those provided in the Security Policy and the Current Audit Report.

Physical Security:

Annually, Denovo will complete a SOC 1 (formerly SAS70) and SOC 2 audit. Denovo's data center facility has:

- 3 layers of security with biometrics and video surveillance
- Fully redundant network
- Fully redundant power
- Configured uninterruptible power systems
- On-site diesel-powered generators
- High density power handling
- N+1 configured cooling systems
- 20-ton and 30-ton Data center Air Conditioning units
- Multi-layer security and monitoring systems
- 24x7x365 staffing

Logical Security

Direct access to the Denovo network hardware and Oracle Database application is governed by the Denovo Enterprise Security Policy and administered by Denovo and provided to users requiring access to Development machines, servers, database schemas, etc. A request for access is made through the customer care portal.

Production data will be stored on a different server from non-production data.

Application Logical Security

Using JD Edwards EnterpriseOne security, Cook County will be able to administer security for individual users and for groups of users. Denovo will work with Cook County to set up security to ensure users in the system have permission to perform only those actions (add, change delete) and be able to view only the data, including masking sensitive fields in the data record, that is essential to complete their jobs. The JD Edwards EnterpriseOne security protects all JD Edwards EnterpriseOne environments.

Access to various database schemas is provided through the JD Edwards EnterpriseOne User profiles and is administer by Cook County. JD Edwards EnterpriseOne role based user security will determine database access and update authority, and Test/Dev/Prod schemas to keep users in specific environments. Additional information about JD Edwards EnterpriseOne data security is available at:

http://docs.oracle.com/cd/E17984_01/doc.898/e14717/jde_e1_security.htm.

JD Edwards EnterpriseOne User Provisioning

Cook County will be able to provide JD Edwards EnterpriseOne user provisioning through the use of Cook County's active directory or other means utilized by Cook County.

SSAE 16 – SOC 1 Report

On an annual basis, Denovo will obtain the SSAE 16 - SOC 1 Report. SSAE 16 is the new standard for creating a SOC 1 report and, in effect, replaces SAS 70 reports. The SSAE 16 SOC 1 Report provides Cook County with a strong sense of comfort about the processes Denovo performs relevant to controls around financial reporting that impact Cook County.

The most significant benefit of SSAE 16 for Cook County is that it allows Denovo to more clearly articulate information about our processes and the control environment. In essence, SSAE 16 enables Denovo to present a strong position to Cook County about our control environment relevant to processes that impact your financial reporting. Our FY2011 report has been provided.

Denovo will also work with Cook County to ensure your unique audit and process requirements are met (PCI, SOX, HIPAA, etc.).

Backups

Denovo uses IBM Tivoli Storage Manager (TSM), a client/server tool for backing up and/or archiving data from various machines to a central server or tape. The first time TSM backs up Cook County's data it will perform a full backup. After that it performs incremental backups or selective backups depending upon Cook County requirements. By default, Denovo will keep 30 versions of Cook County production data and 10 versions of Cook County test and development data. Two sets of tapes are created for each backup, with one being stored off-site for archiving purposes and one stored onsite for recovery and restore purposes. By default, Denovo uses an indefinite archiving and retention period, thus, we do not reuse archive tapes.

All data including OS files, database files, application data, and all user data is backed up nightly unless Cook County requests a different backup schedule. Database incremental backups will be performed nightly and a full database backup will be performed weekly. Denovo shall encrypt all backup tapes and shall not share such tapes with any third party except with Cook County's consent except for Denovo designated offsite storage provider. Client will be responsible for any costs related to encrypting backups. Two sets of tapes are created for each backup. One is stored off-site for archiving purposes and one is stored onsite for recovery and restore purposes. By default, Denovo uses an indefinite archiving and retention period, thus, we do not reuse archive tapes. Client is responsible for the cost of the tapes. Denovo does reserve the right to change backup solutions and methodology with proper notification to the Customer. Cook County can request data recovery or backup through the customer portal.

Denovo will provide database backups and a retention policy based upon a mutually agreed upon schedule, similar to the one below:

Description	Retention Period
Baseline	Until first annual + 1 month
Daily	6 days
Weekly	4 weeks
Monthly	11 months
Annual	7 years

Denovo will work with Client prior to transitioning services to understand your business requirements, which may or may not change our backup and retention methodology.

Requested Data Restore

Aside from the disaster recovery services describes below Cook County may request a restore of data from either the archives or backups for any of the JD Edwards environments (Production, Development, Test, Train) by either calling the Customer Care center or opening a ticket in the Customer Care Portal. Denovo will begin restoring the customer data files within 24 business hours.

Client Infrastructure Requirements

In order to preserve the integrity of the Denovo Cloud, Denovo will work with Cook County to establish procedures with respect to Cook County equipment that will connect with the Denovo Cloud. This collaboration will be in the form of a technical audit performed at no additional charge to Cook County. The audit will review the following best practices:

- All desktops, notebooks, laptops, and workstations should be running a supported operating system and version level as it relates to JD Edwards EnterpriseOne. The operating system should have all of the latest service packs and critical updates installed.

- Cook County's infrastructure and network should be running a currently licensed, up-to-date and vendor-supported server-based antivirus solution protecting all servers, developer workstations, desktops and laptops.
- All desktops, notebooks, and laptop software should be genuine, licensed and vendor-supported. This is especially important as it relates to supported browser versions.

Customer Care

Under the customer care component of the subscription licensing Cook County will receive:

- 24/7/365 manned service desk operations
- Denovo portal that provides a Cook County branded Employee Solution Center

Overview

Denovo's Enterprise Service Desk plays a critical role in ensuring reliability, availability and continuity of IT services rather than just logging and resolving end-user issues. Our 24/7/365 Service Desk operations are delivered through a consistent set of tools and processes providing efficient and cost effective IT services to Cook County.

Denovo's Service Desk alongside Denovo's integrated infrastructure and application support team act as one single entity instead of silos. This provides a single handle, in terms of control, to Cook County and also leads to significant cost-savings.

Following are Denovo's service components in the Denovo Service Desk:

- *Self Help* – An enterprise wide web portal with an enriched and updated knowledge base of most common issues faced by users. This portal enables users to resolve an incident, create a request, report an incident and review the status of submitted requests, etc. Self Help is available 24/7/365 except during scheduled downtime.
- *First, Second & Third Tierl Support* – Provide support for logging, tracking, resolution and reporting of help desk incidents and service requests. These activities are associated with restoring normal service operation as quickly as possible and help to minimize the adverse impact on business operations, thus ensuring that the best possible levels of service quality and availability are maintained. Tier level support is available at any time for production assistance and during scheduled business hours for non-production issues.
- *Service Request Management* – This topic encompasses all the activities associated with service requests, starting with logging of a service request, acceptance by the service desk, prioritization request, request fulfillment and subsequent closure.

Denovo has a long and well-established history of transforming the ITIL best practices into operational procedures and processes in order to create a unified services organization. As a result, our service teams use a common vocabulary, workflow, organizational structure, and reporting system that enable us to consistently deliver high quality services to meet diverse client requirements. The benefits of ITIL Best Practices become available to our clients once they have transitioned to the Denovo Enterprise Service Management architecture and carry across every ITIL-based process and each service line.

Denovo continually adapts and improves its ITIL-aligned Service Management approach to deliver services faster and more reliably. For example, we have incorporated the implementation of changes (Release Management) into Change Management processes, leveraging advanced technologies to perform Release Management efficiently and accurately.

In addition to these processes and methodologies, our Service Desk toolset suite (Nimsoft) brings together a broad variety of tools and processes within a common platform and aligned with an ITIL framework. Nimsoft

delivers automation, tracking, accountability, service delivery, and resolution efficiencies across each of our enterprise solutions and services.

We handle support of JD Edwards and 3rd party products (front end analytics, reporting tools, integration tools, or others) as follows:

Step 1. The Cook County will create a service ticket when reporting an issue with JD Edwards EnterpriseOne in the Denovo Cloud. The service ticket will be submitted by calling the Service Desk directly, sending an email to the Service Desk, logging the issue through the Customer Care portal, or using the Cook County's integrated help desk. The Cook County will receive a confirmation email automatically when their ticket has been entered into the Service Desk system.

Step 2. If the Service Desk is not able to resolve the ticket as a tier one issue then they assign it to a qualified Denovo representative as a tier 2 ticket.

Step 3. The Denovo representative receives the service ticket through Denovo's automated workflow system and communicates with Cook County immediately upon receipt that they have been assigned the service ticket and are working their issue. This will result in an exchange of dialog/e-mails to further understand the issue.

Step 4. If the person responsible is not able to personally resolve the issue they will elevate the ticket to tier 3 and will call upon other qualified members of the Denovo team or the software vendor.

Step 5. Once the issue is resolved, it will be documented both at the Service Desk and with the individual or system who requested the service request.

Support and Escalation

Denovo will respond to Cook County's tickets under the provisions of the Service Level Agreement, and with best effort after hours or on holidays. Cook County must open tickets via phone, email, web portal, or Cook County's integrated help desk to Denovo's Service Desk. Each service request will be assigned a Trouble Ticket number for tracking. Mutually agreed upon escalation procedures will be established prior to go-live.

Coverage Hours – Denovo provides manned Service Desk 24 hours a day 7 days a week. Managed services will be provided during coverage hours; 7:00 am to 7:00 pm Central Time Monday through Friday, excluding Cook County holidays, unless otherwise mutually agreed upon by the parties.

Service outside Coverage Hours - Emergency services (Severity 1) will be performed outside of the hours of 7:00 am – 7:00 pm Central Time Monday through Friday, including Saturday and Sunday and all Cook County holidays, shall not be billed separately and are included in this service. All other services will be performed during coverage hours. Article 4 defines Severity 1 issues.

Service Desk Escalation Process

Issues that are not resolved through standard support and help desk services, as described in this Section, may be escalated by Cook County to the Denovo Account Manager assigned to Cook County. If Cook County believes it is not getting the response it is looking for from the Account Manager, Cook County may escalate the issue to the Service Desk Director. The Service Desk system will automatically escalate the issue based on the thresholds defined in Article 4 Service Level Agreements.

Service Desk Reporting

Denovo shall provide Cook County with real time access to reports detailing Cook County's help desk requests for service and the timing and resolution of those requests by the Denovo Customer Support Team through the Customer Care Portal.

Cook County's ability to Manage Tickets

Should Cook County choose to provide staff for managing service desk tickets, Denovo will be provided up to two (2) ITIL user licenses. Additionally, integration between Denovo's Service Now service desk software and Cook County's service desk software is available.

Technical Managed Services

Under the technical managed services component of the subscription licensing Cook County will receive:

- Technical support to handle routine maintenance of CNC, database, and integration services

Overview

Denovo has a knowledgeable and experienced team of CNC resources to support Cook County with system administrative services for JD Edwards EnterpriseOne in the Denovo Cloud. These services are provided to Cook County with qualified, experienced CNC resources without the risk associated with depending too heavily on one individual.

Cook County will use the Customer Care services to initiate a service ticket. Most activity will be performed during normal business hours, with some services being delivered at a time that is mutually agreed upon at the time CNC technician contacts the Cook County user.

The following technical managed services are In-Scope in this Statement of Work.

Note 1: Up to nine (9) refreshes will be performed per month regardless of the individual environment being refreshed. A refresh script will be created to provide daily auto refresh of one (1) environment.

JD Edwards EnterpriseOne	Frequency	Time Period
CNC Services		
Printer Setup and Maintenance	As Needed	Coverage Hours
Development Package Build-Update(DV/PY)	3-Weekly	Coverage Hours
Development Package Build-Full(DV)	1-Monthly	Coverage Hours
Prototype Package Build-Full(PY)	1-Monthly	Coverage Hours
Production Package Build-Update	1-Weekly	As scheduled with Client
Production Package Build-Full	1-Monthly	As scheduled with Client
Environment Refresh-Data/Objects (see Note 1)	1-Monthly	Coverage Hours
Environment/Path Code/OMW Maintenance	As Needed	Coverage Hours
OCM Maintenance	As Needed	Coverage Hours
Purge print queue, log directories, and workflow messages	Monthly	Coverage Hours
Technical Assistance and Troubleshooting	As Needed	Coverage Hours
Technical Assistance and Troubleshooting-Sev 1	As Needed	24X7
Installation of JD Edwards EnterpriseOne ESU's	As Needed	Coverage Hours
Installation of JD Edwards EnterpriseOne Tools releases	Annually	Coverage Hours
Installation of JD Edwards EnterpriseOne application updates (ASU's)	As Needed	Coverage Hours

JD Edwards EnterpriseOne	Frequency	Time Period
Security Administration	As Needed	Coverage Hours
Technical Diagnosis/Performance/Design Improvements		
System Audit and Recommendation	Annual	Coverage Hours
Security Audit and Recommendation	Annual	Coverage Hours
Performance Tuning and Optimization	As Needed	Coverage Hours
Monitoring Services-		
JD Edwards EnterpriseOne Application Monitoring	Ongoing	Coverage Hours
Proactive Database Monitoring	Ongoing	Coverage Hours
Database Administration Services		
Database Software Updates and Patches	Quarterly	Maintenance Window
Database Performance Tuning and Optimization	As Needed	Coverage Hours
Database Security Administration	As Needed	Coverage Hours
Database Capacity Planning	As Needed	Coverage Hours
Database Backups	Daily	As scheduled with Client
Database Recoveries	As Needed	Coverage Hours
Database Recovery Testing	Yearly	Coverage Hours

Batch Processing Performance

Denovo will provide monitoring of the job queues and Cook county will be notified by email, text message or pager. These alerts will be sent when:

- any time a batch process fails during a production run
- any time a submitted job remains in a "waiting" status for longer that a predetermined period of time
- any time a job is in "active" status for longer than a predetermined period of time

Denovo commits it will do everything within its control to ensure that Cook County's payroll cycles and other time critical processes are completed within the parameters of Cook County's business needs.

End of Term Services

Should Cook County, upon reaching the end of the subscription period, choose to migrate to an instance of JD Edwards EnterpriseOne outside of the Denovo Cloud, Denovo assists in the transmission of any customize or modified objects, configured workflows, developed forms templates, central tables, and business data tables as they exist in the Denovo Cloud. Denovo will transmit to a location, mutually agreed upon, within Cook County's network. Denovo is willing to provide additional professional consulting services to support Cook County's conversion efforts on a time and material basis.

Should Cook County choose to implement a non JD Edwards ERP solution, Denovo will assist in Cook County's efforts to transmit JD Edwards EnterpriseOne business data tables as they exist. Denovo will transmit the business tables to a location, mutually agreed upon, within Cook County's network. Denovo is willing to provide additional professional consulting services to support Cook County's conversion efforts on a time and material basis.

Application Managed Services

Under the application managed services component of the subscription licensing Cook County will receive:

- Denovo provided domain expertise of the Cook County JD Edwards EnterpriseOne instance
- Functional support to handle routine user needs associated with Cook County's configuration

Overview

Denovo's experienced application staff is available to support Cook County to identify, analyze, and resolve application problems. Whether it is midnight and your staff cannot determine why payroll will not run, or noon and your accounting staff cannot run 1099's, Denovo application staff is ready to help.

Denovo will provide application managed services to support Cook County' activities associated with all of the JD Edwards EnterpriseOne applications in the Denovo Cloud. Application managed services provide practical, timely functional support for products provide with Cook County's JD Edwards EnterpriseOne. Application managed services are requested via Denovo's Customer Care services and provided remotely.

Denovo's application managed services are comprised of the following:

- A direct response to user inquiries concerning the performance, functionality, or operation of the supported programs
- A direct response to user inquiries regarding problems or issues with the supported software programs
- Diagnosis of problems or issues of the supported programs
- Reasonable efforts to resolve reported errors in supported programs such that reported programs perform in all material respects, as described in the associated user documentation
- Escalation of support tickets to Denovo Management as required
- Review of problems or issues by the supported program's vendor

Disaster Recovery Services

Under the disaster recovery services component of the subscription licensing Cook County will receive:

- Denovo's traditional recovery model

Overview

Denovo offers two Disaster Recovery (DR) offerings: (1) "Traditional Recovery" and (2) "Instant Recovery." Descriptions of both offerings are listed.

Option 1 – *Traditional Recovery:* This option is designed to meet the recovery time objective (RTO) as well as the recovery point objective (RPO) of Cook County. Traditional recovery is designed to be a more cost effective solution with less aggressive RTO and RPO. Traditional Recovery uses a tape recovery system to rebuild the environment if a Disaster Recovery is declared. There are different levels of RPO which Cook County can select, with the proposed solution designed to have an RTO of 48-72 hours. Using Traditional Recovery, the fail back to the primary data center will require a tape "backup and restore" at the main data center.

Option 2 – *Instant Recovery*: This option is more expensive and it has the capability's to recover a client's environment in 30 minutes and only lose 5 min worth of data. Instant recover is designed to offer the quickest Recovery Time Objective (RTO). Depending upon the volume of servers to recover, the servers can be online and ready within three (3) hours. This solution also offers the most aggressive Recovery Point Objectives in the industry and is designed to continuously replicate your data to our disaster recovery site. Continuous replication ensures near instant recovery. Another key benefit of Instant Recovery is the simplicity of fail back. After the disaster has been cleared, Cook County will have the ability to instantly fail back to the main data center without data loss and minimal outage.

Details

The proposed disaster recovery service is the Traditional Recovery with a recovery time objective (RTO) of 48 – 72 hours and an recovery point objective (RPO) of 24 hours. It will be hosted in Sterling Forest, New York. Denovo shall perform, with participation of Cook County one recovery rehearsal per year, with 90-day notice. More than one disaster recovery test can be requested per year at an additional fee. Denovo disaster recovery services are designed to allow connections from anywhere in the world so there is no need to travel to a disaster recovery site. This design helps reduce costs and increase the ability to meet aggressive RTOs. A disaster recovery event lasting more than 72 hours may incur a daily service charge.

Service Level Agreements

Priority Levels

The following table shows the targets of response and resolution times for each priority level in the JD Edwards Production environment. The following table also applies to Development & Test environments when the issue is related to a business critical activity as mutually agreed. Client or Denovo through mutual agreement will assign the severity level to the service ticket based on these criteria:

Issue/Outage	Priority	Response Time	Resolution Time	Escalation Threshold to Manager*	Escalation Threshold to Director
Cook County experiences a complete loss of access to and use of the Production Environment. Work cannot reasonably continue, the operation is mission critical to the business and the situation is an emergency. A Severity Level 1 Incident results from an Infrastructure outage or a component (system process) level failure, and has one or more of the following characteristics: • Environment is down and/or inaccessible by Cook County's End Users • Data is corrupted, resulting in a complete halt to Cook County's business operations • Environment hangs indefinitely, causing indefinite delays for critical resources or response • Production payroll processing issues are	Severity 1	15 minutes	Denovo will work severity 1 issues 24x7 until the issue has been resolved or Cook County agrees the severity should be downgraded. For severity 1 issues Cook County must also agree to work 24x7 until the issue is either resolved or downgraded otherwise the issue will be worked during the Cook County's coverage hours.	1 Hours	2 Hours

Issue/Outage	Priority	Response Time	Resolution Time	Escalation Threshold to Manager*	Escalation Threshold to Director
severity 1.					
Cook County experiences a severe loss of access to and use of the Production Environment. No mutually acceptable workaround or alternative is available; however, business operations in the Production Environment can continue to be conducted in a restricted fashion.	Severity 2	1 Hours	Severity 2 tickets will be worked during Cook County's coverage hours until the ticket is resolved.	24 Business Hours	36 Business Hours
Cook County experiences a minor loss of access to and use of the Production Environment. The impact is an inconvenience, which may require a workaround to restore functionality	Severity 3	2 Hours	Severity 3 tickets will be worked during Cook County's coverage hours until the ticket is resolved.	48 Business Hours	54 Business Hours

* Escalation Threshold: Open/unresolved issues are escalated to the next level manager once this threshold has been reached.

Support Tiers

The following details and describes our Support Tier levels:

Support Tier	Description
Tier 1 Support	All support incidents begin in Tier 1, where the initial trouble ticket is created. The issue is identified and clearly documented, and basic hardware/software troubleshooting is initiated.
Tier 2 Support	All support incidents that cannot be resolved with Tier 1 Support are escalated to Tier 2, where more complex support on hardware/software issues can be provided by more experienced Engineers.
Tier 3 Support	Support Incidents that cannot be resolved by Tier 2 Support are escalated to Tier 3, where support is provided by Denovo's most experienced, senior Engineers who have the ability to collaborate with 3rd Party (Vendor) Support Engineers to resolve the most complex issues.

Credits

Service Desk Response

The Denovo service desk response time will be at or below the response times listed for severity 1, issues 95% of the time and severity 2 and 3 issues 90% of the time in any given month. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

For purposes of this SLA a "Failure to Respond" occurs when Denovo is in receipt of a service ticket and the Denovo Service Desk fails to respond to the Client within the timeframe defined in the SLA table. Denovo's receipt of a service ticket will be at step 1 in the Service Desk process defined in Section 2 of this Statement of

Work. Denovo's response to the service ticket will be the initial contact the Service Desk has with the Client. The elapsed time between these two (2) events represents the response time.

Service Desk Escalation

The Denovo service desk escalation period will be at or below the escalation periods listed for severity 1 tickets 95% of the time and for severity 2 and 3 tickets 90% of the time for any given month. For any month that Denovo does not meet this standard we will credit your account 0.5% of the monthly fee per occurrence, up to 100% of your monthly fee.

For the purposes of this SLA a "Failure to Escalate" means when a ticket has been open longer then the defined threshold and the appropriate manager has not been notified.

Application Availability

JD Edwards EnterpriseOne web interface will be available 99.9% of the time in a given month, excluding the following:

- Scheduled maintenance
- Downtime caused by Client or third parties, (excluding Denovo and/or its affiliates or agents)
- User Lock out – either by automated or manual processes (i.e. password reset, password expiration, or user provisioning)

JD Edwards EnterpriseOne web interface being unavailable occurs when the Client is unable to login through the JD Edwards EnterpriseOne web interface.

- This will be measured through an automated login probe (script) that will poll the JD Edwards EnterpriseOne web interface

Denovo will credit Client's account 5% of the monthly fee for this downtime. The Application Availability credit will be applied on the following month's invoice if Denovo determines the outage was an SLA event.

Application Availability credits due Client will be applied on the following month's invoice.

Network Uptime

We guarantee that our data center network will be available 100% of the time in a given month, excluding scheduled maintenance. The data center network means the portion of the Denovo network extending from the outbound port on our edge device to the outbound port of the data center border router and includes Denovo managed switches, routers, cabling. A "Network Outage" occurs when network service is interrupted and exceeds the Network Availability SLA in any month provided that such outage was not caused by the failure of equipment provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents. If we do not achieve this SLA we will credit your account 5% of the monthly fee for each 30 minutes of network downtime, up to 100% of your monthly fee for the affected server.

Data center Infrastructure

We guarantee that data center HVAC and power will be functioning 100% of the time in a given month, excluding scheduled maintenance. Power includes UPSs, PDUs and cabling, but does not include the power supplies on servers supporting your services (see Hardware below). Data center Infrastructure "Outage" exists when a particular server is shut down due to power or heat problems. Provided such outage was not caused by the failure of equipment provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents will credit your account 5% of the monthly fee for each 30 minutes of infrastructure downtime, up to 100% of your monthly fee for the affected server(s).

Hardware

We guarantee the functioning of all server hardware components and will replace any failed component at no cost. "Hardware" means the processor(s), RAM, hard disk(s), motherboard, NIC card and other related hardware included with the server. Hardware replacement will begin once we identify the cause of the problem. An "Outage" occurs when servers supporting Cook County are unavailable for console access via portal or the server is unresponsive to access requests or operations provided such outage was not caused by the failure of guest operating system or application operations provided by Client or third parties, i.e., excluding Denovo, its affiliates or agents. We will credit your account 5% of the monthly fee per additional hour of downtime, up to 100% of your monthly fee for the affected server(s).

Total Credits

If a single incident results in the failure of Provider to meet more than one Service Level in a single month, the Service Level Credit issued shall be only the largest Service Level Credit of the Service Level Credits associated with the missed Service Levels. The credits listed above are Denovo's only liability, no matter what type of claim, for Denovo Services downtime or outages. Denovo is not liable for any damages (direct, consequential, incidental, lost business, etc.) Client claims to have suffered because of Denovo-hosted service downtime or outages, including the unavailability of your software, operating systems, applications, and data. The credits set forth herein are your sole and exclusive remedy for Denovo's inability to achieve the SLAs set forth herein. Total credits in a month cannot exceed 100% of the charges for the service for a month.

Total Credits

In the event that a single incident results in the failure of Provider to meet more than one Service Level in a single month, the Service Level Credit issued shall be only the largest Service Level Credit of the Service Level Credits associated with the missed Service Levels. Total credits in a month cannot exceed 100% of the charges for the service for a month.

Professional Consulting Services

Under the professional consulting services Cook County will receive:

- Technical support to handle the migration tasks of the JD Edwards HR/Payroll Upgrade project
- Development support to handle all development tasks assigned to the JD Edwards HR/Payroll Upgrade project or any future projects as approved by Cook County
- Functional support to handle all functional tasks assigned to the JD Edwards HR/Payroll Upgrade project or any future projects as approved by Cook County
- Project management support to handle all project management tasks assigned to the JD Edwards HR/Payroll Upgrade project or any future projects as approved by Cook County
- Training support to handle all training tasks assigned to the JD Edwards HR/Payroll Upgrade project or any future projects as approved by Cook County

Upgrading of JD Edwards EnterpriseOne

The HR/Payroll Upgrade project to transition from Cook County's JD Edwards World environment to JD Edwards EnterpriseOne in the Denovo Cloud is treated largely like a migration project; moving the data from JD Edwards World to JD Edwards EnterpriseOne combined with the implementation of new functionality available in the JD Edwards EnterpriseOne HCM suite. The HR/Payroll Upgrade project will follow Denovo's Standard Implementation Methodology, see Exhibit A. In scope for the HR/Payroll Upgrade project:

- Project Management of the JD Edwards HR/Payroll Upgrade project
- Migration of JD Edwards World production data to JD Edwards EnterpriseOne.

- Configuration of JD Edwards EnterpriseOne applications and batch jobs to provide "best practices" supported by JD Edwards EnterpriseOne.
- Identify gaps in the "best practices" model and functionality currently available in JD Edwards World that is required for Client's business practices.
- Configuration of an as yet unspecified number of business process improvements that will be identified as in scope during the JD Edwards HR/Payroll Upgrade project. These improvements will be addressed after the go-live date and production support ends. Two (2) forty (40) hour a week resources, an HCM consultant and a developer, will be made available for the period of 3 months.
- Configuration of a roles based security model, menus, in the form of E1 pages a production "landing page" with links to other Client sites, and a non-production landing page with links to all non-production environments.
- Testing of the configured JD Edwards EnterpriseOne applications, batch jobs, menus, and roles based security.
- Parallel testing of two payroll cycles. A payroll cycle has three separate check runs which will be included in the parallel testing; corporate, health and Forest Preserve.
- Training of the upgrade project team and Client's user community.
- Create production environment and refresh test and development environments.
- Project documentation will be prepared to support the upgrade project tasks.

Project Implementation Approach

Project Planning

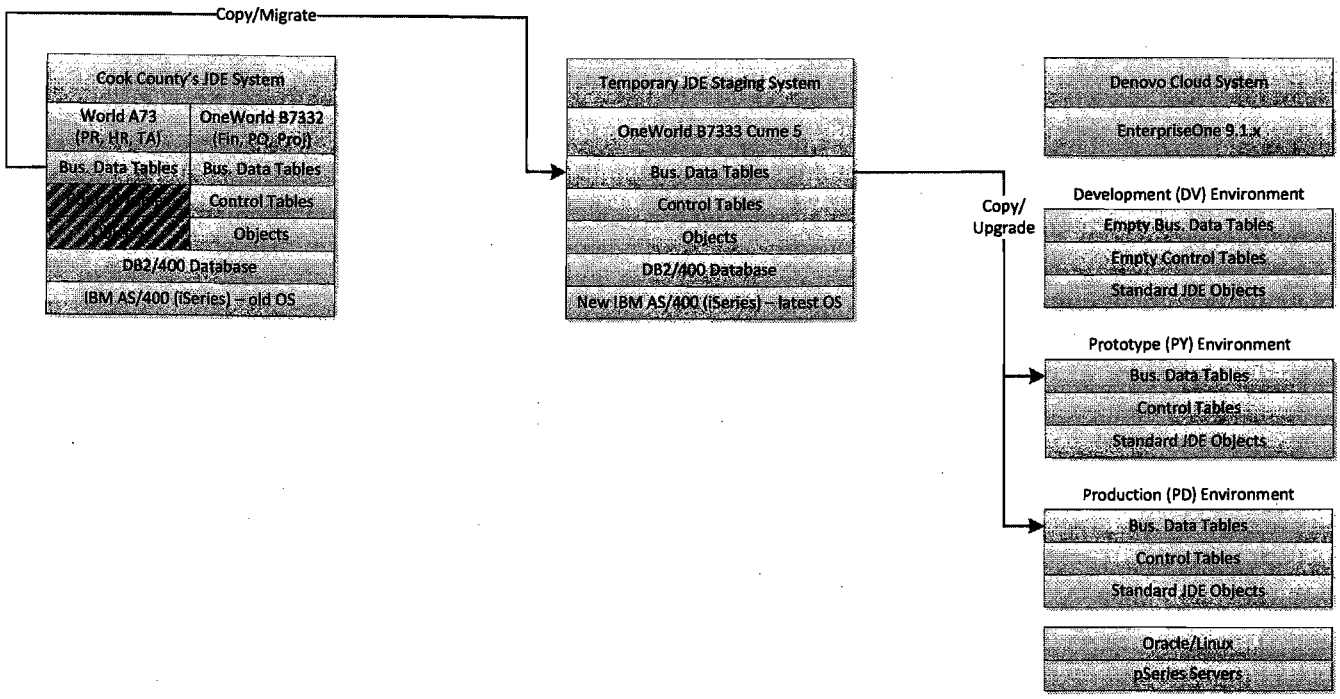
Project Initiation Stage – The leadership team will begin the project with a **Project Team Introduction Session**, in this session Cook County's project members will meet the Denovo project leadership team. It is in this session that Cook County's project members will be given an outline of what their roles and responsibilities will be on the project and what they can expect to happen over the next few weeks as the Project leadership team works through the planning and execution stage.

The leadership team will then finalize the **Project Charter and Stakeholder Management Plan.** Through a series of interviews with the Key Stakeholders and Cook County Project Team Members, the leadership team will gather the necessary information to prepare the Project Charter and the Stakeholder Management Plan.

Project Planning and Execution Stage – With the close of the Project Initiation Stage the leadership team will then turn its attention to developing the artifacts that will be used to govern the project. They will begin with the **Project Management Plan** or PMP. Here they will define various policies, i.e. Change Management, Software Development Lifecycle (SDLC), Milestone Tracking Plan, etc. They will also define documentation standards, Training Material requirements, Test Scripting requirements, etc.

Additionally, they will prepare the **Detailed Project Plan** (WBS), a **Milestone Tracking Policy**, a **Risk Management Policy**, and a **Communication Plan** to help govern the project through its lifecycle. A project **SharePoint Site** will be developed and finally the project **Kick-off Meeting** will be conducted and the entire team will be formally introduced.

Migrating JD Edwards World to JD Edwards EnterpriseOne



Installation Stage – Denovo's technology tactical team will be conducting an **Infrastructure Discovery Workshop(s)** to validate information we gained from our initial discovery sessions. This is to ensure that our sizing information for hardware and communication is adequate to meet the capacity and throughput requirements for the optimal performance of Denovo's Cloud. We also ensure that all of the minimum technical requirements (MTRs) are downloaded and reviewed to ensure that the latest supported technical components are installed on the hardware.

The technology team will then start the work to procure any additional equipment necessary to support Cook County's Denovo's Cloud. We anticipate that the provisioned hardware and latest supported operating system will be installed, working on Denovo's network, and tested within six (6) weeks of the beginning of the project. We also anticipate the initial communications link between the Data Centers will be through a Citrix farm connection. The MPLS communications link can take up to 90 business days to be fully functional. Once the MPLS circuit is functioning the user's access to the Citrix farm will be removed.

JD Edwards EnterpriseOne will be installed on the Colorado data center and the following environments will be created; Pristine (PS), Development (DV), Prototype (PY), Training (TR). The PS environment contains all of JD Edwards EnterpriseOne artifacts as delivered by Oracle. The DV, TR and PY environments will be used by the project team for development, configuration, testing and training.

A snapshot of the database from Cook County's JD Edwards World will be obtained and available for installation in Denovo's Colorado data center. This activity will be coordinated to align with the completion of the installation of a temporary I-series box. Depending on bandwidth and database size, the copy may be transmitted electronically; otherwise it will be loaded onto media and delivered to the Colorado data center. The temporary I-series is used to stage Cook County's JD Edwards World business data tables.

Although there is a direct migration path from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1, there is a multi-step process needed to migrate the Cook County JD Edwards World business data tables:

- The technology team will need to move the data from Cook County's existing I-series to the Denovo I-series with the current OS400 installed.

- Then the business data tables will be migrated to release level of JD Edwards OneWorld where direct migration path has been built by Oracle.
- Then the business data will be migrated to the JD Edwards EnterpriseOne business data tables where it will be copied in the DV, PY and TR environments.

In the past, projects have experienced unforeseen issues with data structures changes and the existence of coexistence over the JD Edwards World database. We expect the issues to be minor and will have time to resolve and retest issues that may be encountered.

Configuring JD Edwards EnterpriseOne

Definition Stage – The Denovo tactical team (the application consultants) will conduct a series of **Discovery Workshops** designed to help them better understand the current state of their assigned processes. They will be interviewing their Cook County project team counterparts and other key users.

This exercise is followed with the **Current State Requirements Labs** where the tactical team will get together and further review the "pain points" and the current JD Edwards World customizations as identified during our January pre-sales sessions. Customizations will be tagged for elimination that are no longer needed or assessed as to the level of effort required to be retained in JD Edwards EnterpriseOne. We will also perform a similar assessment of custom reporting and interfaces to ensure that all base requirements are addressed as part of the initial go-live. Finally, with JD Edwards EnterpriseOne, we are able to implement electronic workflow across all system processes. Therefore we identify where automation makes sense, and identify existing workflow shipped with the software and those which also need to be created. The labs are completed by the findings being documented in the "Requirements Traceability Matrix" and the "RICE list." Additionally the team will begin preparing the "Production Validation Check List." These documents are key to conducting a **Requirements GAP Workshops** where the project tactical team will work together to define all the outstanding GAPs currently identified and provide information to the Project Leadership team for approval and prioritization.

Finally a **System Design Requirements Session** is conducted. Here the tactical team will prepare a "Future State Design Document" and present it to the project leadership for approval. This document outlines all the processes and functionality being supported by JD Edwards EnterpriseOne.

Configuration Stage – Upon completion of the System Design Requirements Session the tactical team will begin to configure the PY environment. Here the team goes into a **Configuration Lab** where they review the current configuration of Cook County's JD Edwards World Payroll and Human Resources products, and the organizational elements (Companies, Business Units, and Accounts) of the General Ledger and compare against the functionality of the same functions in JD Edwards EnterpriseOne. They will then configure the PY environment to match the JD Edwards World configuration and also configure any new features and functionality outlined in the "Future State Design Document." It is during this lab that the security/role matrix is developed and the menu structure is defined.

Next the tactical team will enter into a series of tests. During the HR/Payroll Upgrade project the project team will conduct four tests. The general cycle is to prepare a test script, then conduct the test, and finally conduct a rework lab to update the configuration with the findings of the test. The first test will be the **Configuration Test** which includes unit testing (and if needed retesting) of all the applications.

This is followed by the first and second **Parallel Tests**. These tests will fulfill two testing objectives. The first objective is to conduct a parallel test of Cook County's payroll cycle; each cycle has three payroll runs. The runs are identified as the "Corporate" paycycle, the "Health" paycycle and the "Forest Preserve" paycycle. The testing will begin with the Pay Cycle data being migrated over to the JD Edwards EnterpriseOne PY environment. The data will be captured just before Cook County start's the pre-payroll UBE for each of the three "paycycles." The purpose of the test is validate the setup of JD Edwards EnterpriseOne will produce the

same results as the legacy systems. The second objective is to provide a stress test of the system. The test will include determining the server's ability to handle the anticipated load, with special interest placed on the web servers and the network circuit.

The testing is concluded with a **Business Process Workshop** (BPW.) This final test is conducted to gain user acceptance of JD Edwards EnterpriseOne as it is configured. This ensures that end to end processes function seamlessly and as expected and ensure that system performance meets established standards. It is towards the latter half of this stage that end user training will begin; see Learning Stage at the end of this section.

Delivery Stage – Once the BPW is signed-off, the project team will conduct a **Production Test Review Workshop**. This workshop is used to finalize the cutover scripts and test plans used for the go-live cutover. Once the cut-over plan is completed we will conduct a **Production Installation Plan** where the team will execute the cut-over scripts and run the **Production Test Validation** to ensure the cut-over was completed as planned. At this point a **System Readiness Session** will be conducted and a go/no-go decision will be made. If a "GO" decision is made the data tables will be refreshed, the PY environment will be renamed and become the PD environment and a new PY environment will be created based on the PD environment. During this time Cook County's JD Edwards World is locked out; typically on a Thursday or Friday evening.

Once the refreshed data is validated JD Edwards EnterpriseOne will be made available to the end users and **Post Go-live support** will continue for seven weeks on site. JD Edwards EnterpriseOne is now "live" and Cook County will begin to use the Customer Care services to create service tickets to resolve issues that arise after go-live.

On the weekend of Go-Live, all Payroll and Human Resources users are issued the URL, a JD Edwards EnterpriseOne user ID and temporary password that enables them to access the JD Edwards EnterpriseOne production environment in the Denovo Cloud, thus insuring that no time is lost when users arrive to work on Monday morning.

Training JD Edwards EnterpriseOne

Learning Stage – Training is conducted at the beginning of the project for the project team and then towards the end of the Configuration Stage for the Payroll and Human Resources user community.

During the Project Planning and Execution Stage, members of the Denovo tactical team will provide **Project Team Training** on navigation and features of JD Edwards EnterpriseOne, as well as the new capabilities of the JD Edwards EnterpriseOne HCM suite. This will prepare Cook County's tactical team members with the knowledge they will need to actively participate in the project.

The **Core User Training** will start shortly before the BPW and begins with "Train the Trainer" sessions for the Upgrade project team. Denovo will then conduct training for the HR/Payroll user community, assisted by Cook County application leads. It is scheduled such that the last of the users are trained about a week before go-live.

The **End User Training** will be conducted just prior to go-live and will be led by Cook County with the assistance of Denovo.

During the course of the configuration stage Denovo application consultants, with assistance from Client project team members, will prepare "training materials" to be used in conjunction with the training courses that will be taught during the JD Edwards HR/Payroll Upgrade project. Denovo will be responsible for completing these materials, with the assistance of Cook County process leads. Training materials will be developed using Oracle Universal Productive Kit (UPK) and other Microsoft products such as Word. These training materials will be written to reflect Cook County's business processes and will include documentation of system administration tasks performed by Cook County. To support Cook County's helpdesk, Denovo agrees to assist in the development of ten (10) "tier one" JD Edwards EnterpriseOne scripts.

During the course of the Configuration Stage members of the Denovo tactical, with assist from other Cook County project team members, will prepare "training materials" to be used in conjunction with the training courses that will be taught during the Upgrade project.

Training courses will consist of:

Course Title	Course Synopsis
JD Edwards Basics	A general overview of common functionality the user needs to understand to navigate and use JD Edwards EnterpriseOne.
Employee Master Maintenance	A detailed review of the various reports and applications the user needs to use to complete tasks that add, maintain, and terminate employee records in JD Edwards EnterpriseOne. Includes updating records necessary to record information to accurate pay the employee.
Benefits	A detail review of the various reports and applications the user needs to use to complete tasks to enroll, maintain, and retire employees from the various benefit plans.
Payroll	A detail review of the various reports and applications the user utilizes to update the employee record with payroll related information, run paycycles and compile with governmental requirements.
Time Entry	A detail review of reports and applications the user utilizes to enter employee time records.
Employee/Manager Self-service	A detail review of reports and applications an employee or manager can use to view and maintain employee information.
Global Leave Management	A detail review of reports and applications an employee or manager can use to view "Paid Time-off" balances and request leave of absence.
Position Control	A detail review of reports and applications an employee or manager can use to add and maintain budget balances by position.
System Admin	A detailed review of the tools and procedures used by Client's CNC resources.
Development Training	Fundamentals of Enterprise Report Writer (ERW.)
BI Publisher Training	Fundamentals of BI Publisher.
Workflow Modeler	Fundamentals of Workflow Modeler.
Customer Care Portal	Webex training of the Customer Care Portal (Service Desk) delivered by the Denovo infrastructure team.
21 CFR Title 11 Training	Fundamentals of auditing tables in JD Edwards, including setting up 10 fields in one table as an example.

Development Tasks

Denovo will provide the following services to support these tasks:

- Development of JD Edwards EnterpriseOne objects to replace all identified existing interfaces, which currently run in the JD Edwards World production environment.

- Development of JD Edwards EnterpriseOne objects to replace all identified existing JD Edwards World custom or modified programs and files; to the extent they will be relevant in JD Edwards EnterpriseOne.
- Development of JD Edwards EnterpriseOne objects to replace all identified form templates currently used in JD Edwards World.
- Development of new interfaces to Cook County's current JD Edwards OneWorld B7332 production environment for the general ledger, address book tables and the payroll journal entry.
- CNC (Configurable Network Computing) (aka JD Edwards system administration) support to manage the SDLC (software development lifecycle) management of the JD Edwards EnterpriseOne objects through the various JD Edwards EnterpriseOne environments.

Development Stage – Beginning shortly after the Definition Stage, Denovo developers, assisted by Cook County developers, will begin their **Development Labs** where they will be developing and unit testing all items on the RICE list. These objects will have their own individual testing cycle which includes a unit test conducted by the developer, a functional test conducted by a Denovo application consultant and user acceptance test conducted by a Cook County application lead. All development must be completed prior to the BPW so as to be included in the final user acceptance testing.

Process

During the course of HR/Payroll Upgrade project, development of JD Edwards EnterpriseOne objects will be required. The development team will be following the SDLC (Software Development Lifecycle) process defined during the Project Planning Stage. The high level procedures for the SDLC process:

- Using the JD Edwards OMW (Object Management Workbench), the developer creates an OMW project and adds the development object(s) to the OMW project in the development (DV) environment.
- When the coding is complete, the developer will unit test the object(s), based on a unit test script provided by the functional team.
- When the object(s) pass(es) the developer's unit test, the CNC administrator will promote the OMW project to the test (PY) environment.
- The application consultant will unit test the object(s).
- If the unit test fails, the OMW project will go through a rework cycle:
    - The test results will be forwarded to the developer.
    - The CNC administrator will demote the OMW project to DV.
    - The developer will rework the object(s).
    - The developer will retest the object(s).
    - Once the object(s) pass(es) the developer's retest then the CNC administrator will promote the OMW project to PY.
- When the application consultant's unit test passes, the OMW project process lead (Cook County owner) will perform a user acceptance test (UAT).
- If the UAT fails, then the OMW project will run through the rework cycle until the object(s) successfully complete(s) the UAT.
- The CNC Administrator will promote the OMW project to the production environment (PD).
- The project process lead will validate the developed object(s) is/are working as expected in the PD environment.

Development Effort

There are over 5,000 objects in the JDEFIXES library. 1,338 have been used since 1/1/2012 or do not have a date on them. Not all of these objects will be developed. To effectively estimate what the level of development effort is necessary for the project we apply some basic metrics against the total number of objects:

- Consider objects that have been used in the last year; 1,338 objects.
- Estimate of how many will be abandoned and breakdown the development complexity of the remaining objects.

Type	Attribute	Total	Easy	Medium	Complex	Abandon
Programs	RPG/COBOL	470	56	38	5	371
Programs	CL PGMS	737	61			676
Files	FILES	131	26			105
Count of existing modified or custom World Objects		1,338	143	38	5	1,152

Next we convert these numbers into the number of development objects.

- Assume 100% of the "easy", "medium" and "complex" objects will be developed
- Assume 5% of the "abandon" objects will eventually be developed.

Type	Attribute	Total	Easy	Medium	Complex	Abandon
Programs	RPG/COBOL	118	56	38	5	19
Programs	CL PGMS	95	61			34
Files	FILES	31	26			5
Count of existing modified or custom World Objects		244	143	38	5	58

Next we apply average development hours for each object type to estimate the number of developers.

Type	Attribute	Total Hrs	Easy	Medium	Complex	Abandon
Programs	RPG/COBOL	1,964	448	912	300	304
Programs	CL PGMS	95	61			34
Files	FILES	250	208			42
Development Hours of existing modified or custom World Objects		2,309	717	912	300	380

Count/Hours for new Development

This schedule represents the count of identified and unidentified new development objects.

Description	Attribute	Total	Easy	Medium	Complex
Interfaces to B7332	ERW	7		6	1
Interfaces to Time Entry	ERW	1	1		
Pain Points	ERW	8	5	2	1
Request to Hire	ERW	1		1	
Position Control Reports	ERW	5	2	3	
Pay Check and Direct Deposit Advice	BI Publisher	2		2	
Unidentified Form Templates	BI Publisher	3		3	
Unidentified Dashboards	OneView Reporting	5	2	3	
Request to Hire Workflow	Workflow Modeler	1		1	
Unidentified Workflow	Workflow Modeler	4		4	
Hours of new development objects		37	10	25	2

This schedule represents the hours estimated to complete the identified and unidentified custom objects.

Description	Attribute	Total	Easy	Medium	Complex
Interfaces to B7332	ERW	204		144	60
Interfaces to Time Entry	ERW	8	8		
Pain Points	ERW	240	80	80	80
Request to Hire	ERW	24		24	
Position Control Reports	ERW	88	16	72	
Pay Check and Direct Deposit Advice	BI Publisher	48		48	
Unidentified Form Templates	BI Publisher	72		72	
Unidentified Dashboards	OneView Reporting	88	16	72	
Request to Hire Workflow	Workflow Modeler	24		24	
Unidentified Workflow	Workflow Modeler	96		96	
Hours of new development objects		**892**	**120**	**632**	**140**

The number of objects to be developed has had the complexity of the development assigned. The mix of objects between "simple", "medium" and "complex" may be altered by the mutual agreement of the Project Leadership team. When making changes to the type of existing objects being developed the following equivalences exist:

- Three (3) "simple" objects is equivalent to one (1) "medium" object
- Two (2) "medium" objects plus one (1) "simple" object is equivalent to one (1) "complex" object

Because of the difference in the development effort between an existing object and a new object or the difference between the types of development tools used by different types of new object development, these changes will be mutually agreed upon by the Project Leadership team on an individual basis.

Data Conversion/Migration

A snapshot of the database from Client's JD Edwards World will be obtained and available for installation in Denovo's Colorado data center. This activity will be coordinated to align with the completion of the installation of a temporary I-series box. Depending on bandwidth and database size, the copy may be transmitted electronically; otherwise it will be loaded onto media and Denovo shall deliver the copy, in encrypted format, to the Colorado data center. The temporary I-series is used to stage Client's JD Edwards World business data tables.

Although there is a direct migration path from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1, the migration path for Cook County's JD Edwards World business data tables will be a multi-step process:

- The technology team will move the data from Client's existing I-series to the Denovo I-series with the current OS400 installed.
- The business data tables will be migrated to a release level of JD Edwards OneWorld where direct migration path has been built by Oracle.
- The business data tables will be migrated to the JD Edwards EnterpriseOne business data tables where it will be copied into the DV, PY and TR environments. No business data tables are migrated into the Pristine and conversion environments.
- JD Edwards World A73 production business data tables are the only historical data source that is in scope for this project.

Custom Reports, Forms and Dashboards

We do not currently have a list of custom reporting requirements, and have included the follow type and "not to exceed" quantity of reporting output that Denovo will develop in conjunction with the JD Edwards HR/Payroll Upgrade project:

New Reports Forms, and Dashboards

Description	Tool Used	Quantity	Complexity
Custom Position Control Reports	ERW	5	Medium
Pay Check and Stub	BI Publisher	1	Medium
Direct Deposit Advice	BI Publisher	1	Medium
Unidentified Forms	BI Publisher	3	Medium
Custom Dashboards	One View Reporting	5	Medium

Interfaces

Denovo has identified current interfaces between JDE and third party legacy systems. Below is the list of interfaces considered in scope for the HR/Payroll Upgrade project:

These interfaces represent new development.

Description	Type	Direction (Note)	Quantity	Complexity
Payroll Journal Entries to G/L and/or Jobs	Batch	Denovo -> County	1	Medium
Company, Business Unit, Account Master Revisions	Batch	County -> Denovo	3	Medium
Address Book Revisions	Batch	Denovo --> County	1	Complex
G/L Balances	Batch	County -> Denovo	2	Medium
Time Card Interface (replaces Access DB interface)	Batch	County -> Denovo	1	Simple

NOTE: These are new interfaces between B7332 and EnterpriseOne 9.1. The following tables have been identified in the list of interfaces; general ledger (F0911), balances (F0902), company (F0010), business units (F0006), account master (F0901) address book tables (F0101, F0111, F0115, F0116, F03012, F0401) and GL z-batch (F0911z1). Any additional interfaces required for integration of the GL HR, Payroll, and Address Book to the B7332 that are identified during course of this project will be considered in scope.

Existing Interfaces

In scope for this project is the development of existing JD Edwards World interfaces to JD Edwards EnterpriseOne. The development work includes the rework of the current programs used to compile and package the data for transmission. To the extent that the vendor is not using a secured site to receive the data and the vendor approves, Denovo will encrypt the data. Denovo will also develop scripts to automate the transmission of the data to the vendor. These interfaces represent existing development which will be retrofitted from World. They are listed here to identify them

Description	Type	Direction (Note)
Import Wageworks Transit Orders into JDE (FTP flat file from Wageworks)	Batch	Wageworks -> Denovo

Description	Type	Direction (Note)
Import Wageworks Medical Flex Spending Election (open enrollment on provider's site)	Batch	Denovo -> Wageworks
Import Wageworks Dependent Flex Spending Election (open enrollment on provider's site)	Batch	Denovo -> Wageworks
Open enrollment Plan Info (File from County Web Front-End)	Batch	County -> Denovo
Timecards from External Swipe Systems	Batch	Time -> Denovo
Position Master Records for New Year (County Budget System)	Batch	County -> Denovo
Salary Schedules (from HR)	Batch	County - > Denovo
Pension Deductions (to County Pension System)	Batch	Denovo -> Pension
Accrual Balances (to Swipe card system)	Batch	Denovo -> Swipe
Union Dues Deductions	Batch	Denovo -> Union
Parking Deductions	Batch	Denovo -> Parking
Bank Funding Files	Batch	Denovo -> Bank
Payroll Positive Pay Files	Batch	Denovo -> Bank
Life Insurance Deductions	Batch	Denovo -> Providers
Child Support	Batch	Denovo -> Support
Garnishments such as Bankruptcy, Tax Levies, Student Loans, etc.	Batch	Denovo-> Systems
Deferred Comp	Batch	Denovo -> Comp
United Way	Batch	Denovo -> UW
Transit Deductions	Batch	Denovo -> Transit
Health Insurance Deductions Not Taken	Batch	Denovo -> Access DB
Active Employee Listing for Health Insurance Carriers	Batch	Denovo -> Carriers
Deferred Compensation Audit	Batch	Denovo -> Audit (LLC)
Quarterly Garnishment and Fees Reporting	Batch	Denovo -> Comptroller
Bank Clearing Reconciliation Files	Batch	Denovo -> Auditors & Comptroller

NOTE:

"Denovo" refers to the EnterpriseOne 9.1 system in the Denovo Cloud, while "County' indicates Cook County's current JD Edwards environment.

Workflow, Modifications/Custom Object Development

A list of identified requirements for modifications and custom applications is below. Denovo agrees to replicate and with the mutual consent of Cook County to include minor enhancements to the modifications; to eliminate user pain points. In addition to the identified customization listing we have included the services for the following quantity and complexity for development of unidentified modifications and custom applications: Before the development of any unidentified interfaces, customizations or reports approval will be obtained from Cook County.

New custom JD Edwards EnterpriseOne objects to replace non-JD Edwards World applications or reports:

Description	Complexity	Quantity
Request to Hire Application	Medium	1
Request to Hire Workflow	Medium	1
Unidentified Custom/Modified Workflow	Medium	4

Existing JD Edwards World custom or modified applications or reports:

The following lists represent the pool of programs and files that will be drawn against when developing the 244 custom/modified existing programs and files. These programs include all JD Edwards EnterpriseOne development based on JD Edwards World programs, which would include all existing interfaces, applications and reports. If additional requirements for customizations or modifications are identified during the project, Denovo will prepare a change request; in accordance to the change request procedures as define by the project's leadership team.

This list represents known custom or modify files used in Cook County's JD Edwards World A73. These files are limited to files used since 01/01/2012. There are 131 files in the JDEFIXES library.

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*FILE	F061121A	PF	JDEFIXES		2012
*FILE	F0618FMX	PF	JDEFIXES		2012
*FILE	F0618SUM	PF	JDEFIXES		2012
*FILE	F4301Z1UPL	PF	JDEFIXES		2012
*FILE	F4311Z1UPL	PF	JDEFIXES		2012
*FILE	F55ACTRL	PF	JDEFIXES	Animal Control JDF File	2012
*FILE	F55AFIN	PF	JDEFIXES	Insurance information for AFSCME employees -- JOR	2012
*FILE	F55ASC20	PF	JDEFIXES	ASC MASTER FILE	2012
*FILE	F55BDNTL	PF	JDEFIXES		2012
*FILE	F55BEMPD	PF	JDEFIXES		2012
*FILE	F55BEMPH	PF	JDEFIXES		2012
*FILE	F55BENUP	PF	JDEFIXES		2012
*FILE	F55BHLTH	PF	JDEFIXES		2012
*FILE	F55CUSTO	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2012
*FILE	F55FLSA	PF	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke	2012
*FILE	F55HCR04	PF	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	2012
*FILE	F55JUD04	PF	JDEFIXES	Judges' Supplemental Payroll for Don Fronk -- JOR	2012
*FILE	F55PPR3A	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*FILE	F55PPR3B	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*FILE	F55PPR3C	PF	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*FILE	F55T743	PF	JDEFIXES	Record desc for Teamsters Local 743 (JobCode/Rate)	2012
*FILE	F55TBENS	PF	JDEFIXES	Make pointers to F060116 for query report -- JOR	2012
*FILE	F55TRN2	PF	JDEFIXES		2012
*FILE	F55UNWY1	PF	JDEFIXES	United Way Eligible Employee Donor File for Joan	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*FILE	F560001P	PF	JDEFIXES	Check Extract File	2012
*FILE	OPENDNTL	PF	JDEFIXES		2012
*FILE	OPENENRL	PF	JDEFIXES		2012
*FILE	R55HMOE2	PF	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke	2012
*FILE	R55HMOE3	PF	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke	2012
*FILE	R55HMOS2	PF	JDEFIXES	Enroll Employee HMO Health Plan for Joan Quirke	2012
*FILE	R55PEN2	PF	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	2012
*FILE	ARSBKUP	PF	JDEFIXES	EKI JDE Customer Export File for Joan Quirke	2013
*FILE	CORTABL	PF	JDEFIXES	Union Code Conversion Table for Corporate -- JOR	2013
*FILE	F04572OO	PF	JDEFIXES		2013
*FILE	F060116Z	PF	JDEFIXES		2013
*FILE	F06166Z	PF	JDEFIXES	Changed 04-08-2009 -- JOR	2013
*FILE	F4301UPL	PF	JDEFIXES		2013
*FILE	F4311UPL	PF	JDEFIXES		2013
*FILE	F55ACC05	PF	JDEFIXES	Sick and Vacation Liability Report	2013
*FILE	F55ACR1C	PF	JDEFIXES	Employee Absence by Category Report for Joan	2013
*FILE	F55AETBL	PF	JDEFIXES	Process for Aetna Insurance.	2013
*FILE	F55AM1A	PF	JDEFIXES	Absence Management Export Files for Joan	2013
*FILE	F55AM1AL	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1B	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1C	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1D	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1E	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1EM	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1F	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1H	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1I	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1J	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55AM1K	PF	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*FILE	F55ASC30	PF	JDEFIXES	Novatime Employee Master Download File for Joan Q.	2013
*FILE	F55ASC31	PF	JDEFIXES	08-25-2008, new balance file -- JOR	2013
*FILE	F55CUST1	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55CUSTP	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55EAC0R	PF	JDEFIXES	Transfers-Only Download Report File for Joan	2013
*FILE	F55EAC1R	PF	JDEFIXES	Transfers-Only Download Report File for Joan	2013
*FILE	F55EACM0	PF	JDEFIXES	New Hire and Promotion Download Report File	2013
*FILE	F55EACM1	PF	JDEFIXES	New Hire and Promotion Download Report File	2013
*FILE	F55EACRV	PF	JDEFIXES	Transfers-Only Download Report File for Joan	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*FILE	F55EACTV	PF	JDEFIXES	New Hire and Promotion Download Report File	2013
*FILE	F55EMPLY	PF	JDEFIXES		2013
*FILE	F55HCR02	PF	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	2013
*FILE	F55HCR12	PF	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR	2013
*FILE	F55HCR14	PF	JDEFIXES		2013
*FILE	F55HCRX1	PF	JDEFIXES	NEW FILE -- 12-19-2007.	2013
*FILE	F55HCRXX	PF	JDEFIXES	Health Summary Earning Register Download File	2013
*FILE	F55HR330	PF	JDEFIXES	Tape Layout for Annual Census Tape	2013
*FILE	F55HR330N	PF	JDEFIXES	Copy of F55HR330 for non-emp benificiaries	2013
*FILE	F55INVP	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55INVP1	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55INVP2	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55INVP2B	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55INVP3	PF	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*FILE	F55MET1	PF	JDEFIXES	Master Employee Table for Patel	2013
*FILE	F55NFR3	PF	JDEFIXES		2013
*FILE	F55NFRC	PF	JDEFIXES		2013
*FILE	F55NFRC1	PF	JDEFIXES		2013
*FILE	F55POS20	PF	JDEFIXES	Output to EXCEL from P55POS19 AND P55POS20 -- JOR	2013
*FILE	F55PPR2A	PF	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*FILE	F55PPR2B	PF	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*FILE	F55RM340	PF	JDEFIXES	Prepare input to benefits screen.	2013
*FILE	F55TBEN	PF	JDEFIXES	Tape Layout for Monthly Insurance - D,V,M -- JOR	2013
*FILE	F55TBOND	PF	JDEFIXES	Tape Layout for Bonds - detail	2013
*FILE	F55TBONT	PF	JDEFIXES	Tape Layout for Bonds - total	2013
*FILE	F55THIK	PF	JDEFIXES	Health insurance billings -- JOR	2013
*FILE	F55THIKA	PF	JDEFIXES	Health insurance billings -- JOR	2013
*FILE	F55TIM21	PF	JDEFIXES	Employee Transactions - Batch File	2013
*FILE	F55TLFBA	PF	JDEFIXES	Process for Aetna Insurance.	2013
*FILE	F55TRN1	PF	JDEFIXES		2013
*FILE	F55TRNSF	PF	JDEFIXES	Wageworks Transit Eligibility File	2013
*FILE	F55TRNST	PF	JDEFIXES	Wageworks Transit Eligibility File	2013
*FILE	F55TUAF2	PF	JDEFIXES	Tape Layout for Union - AFSCME & People's	2013
*FILE	F55W2FL	PF	JDEFIXES	File that maps to SYS1.PANLIB(W2FILEFD01) -- JOR	2013
*FILE	F56BUSUNIT	PF	JDEFIXES		2013
*FILE	F58AR7A	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*FILE	F58AR7CD	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*FILE	F58AR7CH	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*FILE	F58AR7D	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*FILE	F58AR7H	PF	JDEFIXES		2013
*FILE	F59COOKC	PF	JDEFIXES		2013
*FILE	F69COOKC	PF	JDEFIXES		2013
*FILE	HFMTABL	PF	JDEFIXES	Union Code Conversion Table for Health Facilities	2013
*FILE	INVBKUP	PF	JDEFIXES	Daily EKI File of Invoices Updated in JDE for Joan	2013
*FILE	R58AR7CR	PF	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*FILE	TS5HCSC	PF	JDEFIXES	Health Care Service Corporation 9/13/2011 -- JOR	2013
*FILE	T55HCSCB	PF	JDEFIXES	Health Care Service Corporation new 08-18-2010	2013
*FILE	T55HCSCH	PF	JDEFIXES	Health Care Service Corporation new 08-18-2010	2013
*FILE	W55HCSC	PF	JDEFIXES	Health Care Service Corporation for Patel	2013
*FILE	WF06116CCH	PF	JDEFIXES		2013
*FILE	WF06116CMK	PF	JDEFIXES		2013
*FILE	WF06116CRE	PF	JDEFIXES		2013
*FILE	WF06116H	PF	JDEFIXES		2013
*FILE	WF06116HLT	PF	JDEFIXES		2013
*FILE	WF06116OCF	PF	JDEFIXES		2013
*FILE	WF06116PMC	PF	JDEFIXES		2013
*FILE	WF06116T	PF	JDEFIXES		2013
*FILE	WF06116X	PF	JDEFIXES		2013
*FILE	WF080200	PF	JDEFIXES	HLT & DPH Employees Mini File	2013
*FILE	XF55JBEN	PF	JDEFIXES	Jan. 23, 2009	2013
*FILE	XF55JBNF	PF	JDEFIXES	Jan. 23, 2009	2013

This list represents known custom or modify programs used in Cook County JD Edwards World A73. These programs are limited to programs used since 01/01/2012. There are 713 programs in the JDEFIXES library.

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	ACCRUALROD	CLP	JDEFIXES	Create Cook County ROD ACCRUAL FILE	2012
*PGM	ACTFPDDBA	CLP	JDEFIXES	Create Cook County FPD ACTIVE DBA FILE	2012
*PGM	J06166	CLP	JDEFIXES	Tax Ledger Repost	2012
*PGM	J55061121	CLP	JDEFIXES		2012
*PGM	J55116DPH3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	2012
*PGM	J55116RET3	CLP	JDEFIXES	Clear Error File F0040	2012
*PGM	J55116RMD5	CLP	JDEFIXES	Clear Work File - BOF	2012
*PGM	J55116SHE2	CLP	JDEFIXES	Upload Timecards - SHE Run WW, Clean-up F0040	2012
*PGM	J55116SHE5	CLP	JDEFIXES	Upload Timecards - CCSHE CLEAR WORKFILE	2012
*PGM	J553501F	CLP	JDEFIXES	LOADS PAYLIBFPD/F553501F FROM F553501 (02/19/09)	2012
*PGM	J553501FTD	CLP	JDEFIXES	Batch version of J553501F -- JOR	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J553501H	CLP	JDEFIXES	LOADS F553501H FROM JDEFIXES/F553501 (10/22/07)	2012
*PGM	J55ACTRL	CLP	JDEFIXES	Create Animal Control JDF File	2012
*PGM	J55AFIN	CLP	JDEFIXES	Monthly insurance for AFSCME	2012
*PGM	J55AFINTRN	CLP	JDEFIXES	MONTHLY INSURANCE FOR AFSCME -- JOR	2012
*PGM	J55ATV1	CLP	JDEFIXES	Multiple Open Employee Activity Records for Joan	2012
*PGM	J55BDEP	CLP	JDEFIXES	Update Ers Using PDM CFMIS400	2012
*PGM	J55BEMPD	CLP	JDEFIXES		2012
*PGM	J55BEMPDV	CLP	JDEFIXES		2012
*PGM	J55BEMPH	CLP	JDEFIXES		2012
*PGM	J55BENUP	CLP	JDEFIXES		2012
*PGM	J55BPEN15	CLP	JDEFIXES	12-29-2010 new -- JOR **********	2012
*PGM	J55BPENL	CLP	JDEFIXES	12-29-2010 new -- JOR **********	2012
*PGM	J55CTRLTRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe	2012
*PGM	J55CUSTO	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2012
*PGM	J55DEPTX0X	CLP	JDEFIXES	Health Cost Report -- Overtime Summary by Employee	2012
*PGM	J55DEPTXXX	CLP	JDEFIXES		2012
*PGM	J55DFSMBC	CLP	JDEFIXES		2012
*PGM	J55DFSMBF	CLP	JDEFIXES		2012
*PGM	J55EDST12S	CLP	JDEFIXES	Revenue Account Groups Summary Report, 03-26-04	2012
*PGM	J55ENROL	CLP	JDEFIXES		2012
*PGM	J55F0618SB	CLP	JDEFIXES		2012
*PGM	J55FACMGT	CLP	JDEFIXES		2012
*PGM	J55FACMGT0	CLP	JDEFIXES	Facility Management Reporting	2012
*PGM	J55FAMGTSB	CLP	JDEFIXES		2012
*PGM	J55FAMGTSM	CLP	JDEFIXES	Facility Management Reporting	2012
*PGM	J55FLSA	CLP	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke	2012
*PGM	J55FPDEMPF	CLP	JDEFIXES	Create Cook County FPD EMP MAST FILE	2012
*PGM	J55HCR04	CLP	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	2012
*PGM	J55HCR04SM	CLP	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	2012
*PGM	J55HIWAYSB	CLP	JDEFIXES		2012
*PGM	J55HMOE	CLP	JDEFIXES	End EMPLOYEE Enroll in Health Plan for Joan Quirke	2012
*PGM	J55HMOEBEN	CLP	JDEFIXES	End BENEFITS Enroll in Health Plan for Joan Quirke	2012
*PGM	J55HMOS	CLP	JDEFIXES	Enroll EMPLOYEE HMO Health Plan for Joan Quirke	2012
*PGM	J55HMOSBEN	CLP	JDEFIXES	Enroll BENEFITS HMO Health Plan for Joan Quirke	2012
*PGM	J55JUD04	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	2012
*PGM	J55JUD04J	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	2012
*PGM	J55JUD04JM	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	2012
*PGM	J55JUD04SM	CLP	JDEFIXES	Judges' Supplemental Payroll for Don Fronk	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55JUD4TRN	CLP	JDEFIXES	CUSTOM -- Transfer JUDGES PENSION using FTP -- JOR	2012
*PGM	J55L202BPS	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm	2012
*PGM	J55MASBK	CLP	JDEFIXES		2012
*PGM	J55MASSCSB	CLP	JDEFIXES		2012
*PGM	J55MIS13SM	CLP	JDEFIXES	Submit Monthly Benefits (J55PAYMON)	2012
*PGM	J55MVSRCS4	CLP	JDEFIXES	Step 4 - Move from JDEFXTST to JDEFIXES	2012
*PGM	J55NHR1SM	CLP	JDEFIXES	New-Hire Reporting (W4 File) for Joan Quirke	2012
*PGM	J55PEN2	CLP	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	2012
*PGM	J55PENTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR pension info to mainframe	2012
*PGM	J55POS05	CLP	JDEFIXES	Report - All Positions position exceptions	2012
*PGM	J55POS05SM	CLP	JDEFIXES	Submit Report - All Positions position exceptions	2012
*PGM	J55POS06	CLP	JDEFIXES	Report - All Positions HR inc step	2012
*PGM	J55POS06SM	CLP	JDEFIXES	Submit Report - All Positions HR inc step	2012
*PGM	J55POS07	CLP	JDEFIXES	Report - All Positions HR inc step & hourly rate	2012
*PGM	J55POS07SM	CLP	JDEFIXES	Submit Report - All Positions HR inc step & rate	2012
*PGM	J55POS08	CLP	JDEFIXES	Report - All Positions sort by title	2012
*PGM	J55POS10SM	CLP	JDEFIXES	Submit Report - All Positions select MCU	2012
*PGM	J55POS13	CLP	JDEFIXES	Report - No employee attached	2012
*PGM	J55POS13SM	CLP	JDEFIXES	Submit Report - No employee atached	2012
*PGM	J55POS18	CLP	JDEFIXES	Report - Compare positions and amounts (match)	2012
*PGM	J55POS18SM	CLP	JDEFIXES	Submit Report - Compare negatives	2012
*PGM	J55POS21	CLP	JDEFIXES	Report - Compare positions and amounts (ALL)	2012
*PGM	J55POS21SM	CLP	JDEFIXES	Submit Report - Compare all	2012
*PGM	J55POS33	CLP	JDEFIXES	Report - Open Positions by Job Code -- JOR	2012
*PGM	J55POS33SM	CLP	JDEFIXES	Report - Open Positions by Job Code -- JOR	2012
*PGM	J55POSB01S	CLP	JDEFIXES	Submit Update - Budget prep	2012
*PGM	J55POSN05S	CLP	JDEFIXES	Submit Report - All Positions position exceptions	2012
*PGM	J55POSN06S	CLP	JDEFIXES	Report All Positions HR with step for FPD -- JOR	2012
*PGM	J55POSN09S	CLP	JDEFIXES	All Positions sort by grade, title for FPD -- JOR	2012
*PGM	J55POSN13S	CLP	JDEFIXES	Report - All exception for FPD -- JOR	2012
*PGM	J55POSN17S	CLP	JDEFIXES	All Positions all ee',exception w/L for FPD - JOR	2012
*PGM	J55POSN21S	CLP	JDEFIXES	Report - positives for FPD -- JOR	2012
*PGM	J55PPLGLFS	CLP	JDEFIXES		2012
*PGM	J55PPLGLHS	CLP	JDEFIXES		2012
*PGM	J55PPR3	CLP	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*PGM	J55PWESND	CLP	JDEFIXES	04/25/2012 -- REVINWEB1 for Joan Quirke.	2012
*PGM	J55RODEMPF	CLP	JDEFIXES	Create Cook County ROD EMP MAST FILE	2012
*PGM	J55SEC01	CLP	JDEFIXES	Health Wage Index Summary Download for Joan	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55SEC01SM	CLP	JDEFIXES	Health Wage Index Summary Download for Joan	2012
*PGM	J55T743B	CLP	JDEFIXES		2012
*PGM	J55TBEN1D	CLP	JDEFIXES	Create Tape Layout for Monthly "Dental" -- JOR	2012
*PGM	J55TBEN1M	CLP	JDEFIXES	Create Tape Layout for Monthly "Medical" -- JOR	2012
*PGM	J55TBEN1SM	CLP	JDEFIXES	Calls J55TBEN1M, -D, -V for Monthly Benefits - JOR	2012
*PGM	JSSTBEN1V	CLP	JDEFIXES	Create Tape Layout for Monthly "Vision" -- JOR	2012
*PGM	J55TBEN2D	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Dental" JOR	2012
*PGM	J55TBEN2M	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Medical" JOR	2012
*PGM	J55TBEN2V	CLP	JDEFIXES	06/20/2012 Create File for Non-Emps "Vision" JOR	2012
*PGM	J55TBENTRN	CLP	JDEFIXES	CUSTOM -- Transfer MONTHLY BENEFITS using FTP -JOR	2012
*PGM	J55TBOND	CLP	JDEFIXES		2012
*PGM	J55TCALI	CLP	JDEFIXES	Califiornia Nurses Union processing	2012
*PGM	J55TDEFL	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	2012
*PGM	J55TFLXG	CLP	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	2012
*PGM	J55TFLXGF	CLP	JDEFIXES		2012
*PGM	J55TFLXGH	CLP	JDEFIXES		2012
*PGM	J55THIKNUP	CLP	JDEFIXES	hmo/ppo billing repts/files without history update	2012
*PGM	J55TLFBASM	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBA.	2012
*PGM	J55TLFO	CLP	JDEFIXES		2012
*PGM	J55TM06SM	CLP	JDEFIXES	Batch Timecard Count by Payroll Subgroup for Joan	2012
*PGM	J55TRN2	CLP	JDEFIXES		2012
*PGM	J55TRN2SM	CLP	JDEFIXES		2012
*PGM	J55TRN3SM	CLP	JDEFIXES		2012
*PGM	J55TRN4SM	CLP	JDEFIXES		2012
*PGM	J55TU46	CLP	JDEFIXES		2012
*PGM	J55TUAFL	CLP	JDEFIXES	AFSCME UNION DUES/PEOPLES COMMITTEE FOR VENDMENX	2012
*PGM	J55TUWAY	CLP	JDEFIXES		2012
*PGM	J55UNSM1	CLP	JDEFIXES	Print Union Summary for Local 714 only	2012
*PGM	J55UNSM2	CLP	JDEFIXES	Print Union Summary for Illinois Nurses Assoc.	2012
*PGM	J55UNSM3	CLP	JDEFIXES	Print Union Summary, Hospitals (TD & JOR)	2012
*PGM	J55UNSM5	CLP	JDEFIXES		2012
*PGM	J55UNSM6	CLP	JDEFIXES	Batch vers. of J55UNSM6 - HOUSE STAFF ASSOC DUES	2012
*PGM	J55UNSMC	CLP	JDEFIXES	Employee Union Membership	2012
*PGM	J55UNSMDC	CLP	JDEFIXES	Print Union Summary, Hospitals (TD & JOR)	2012
*PGM	J55UNSSMC	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	2012
*PGM	J55UNSSMH	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	2012
*PGM	J55UNSUMC	CLP	JDEFIXES	modified to include DBA 7019 on Mar.9,2007	2012
*PGM	J55UNSUMH	CLP	JDEFIXES	modified to include DBA 7019 on Mar,9,2007	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55UNWY1	CLP	JDEFIXES	United Way Eligible Employee Donor File for Joan	2012
*PGM	J55VDSMBC	CLP	JDEFIXES		2012
*PGM	J55VDSMBF	CLP	JDEFIXES		2012
*PGM	J55VEND3C	CLP	JDEFIXES	New J55VEND3C(08/01/06) AIG REPT FILE TO DOWNLOAD	2012
*PGM	J55VEND3CT	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	2012
*PGM	J55VEND3F	CLP	JDEFIXES	New J55VEND3F(08/01/06 & 6/4/7) AIG AND A/R READY	2012
*PGM	J55VND03C	CLP	JDEFIXES	HMO/PPO Billing-CORPORATE-A/R ready-6/4/7	2012
*PGM	J55VND03H	CLP	JDEFIXES	HMO/PPO Billing-HEALTH-A/R Ready-6/4/7	2012
*PGM	J55WKCOMPS	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	2012
*PGM	J57POS04A	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	2012
*PGM	J57POS04B	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	2012
*PGM	J58AR20	CLP	JDEFIXES	JDE AR Home Rule Tax Return Creation for J. Quirke	2012
*PGM	J58AR20SM	CLP	JDEFIXES	12/12/2012, added 'TM' to validation list	2012
*PGM	J58AR6	CLP	JDEFIXES	Health Billing to the Customer Master for C. Kane	2012
*PGM	J58AR8	CLP	JDEFIXES	compiled	2012
*PGM	J58ARRV03S	CLP	JDEFIXES	Health Billing Monthly Process for Carol Kane	2012
*PGM	JRPTMNUC	CLP	JDEFIXES		2012
*PGM	JRPTMNUF	CLP	JDEFIXES		2012
*PGM	JRPTMNUH	CLP	JDEFIXES		2012
*PGM	P061161	RPG	JDEFIXES	Time Entry by Job	2012
*PGM	P061171	RPG	JDEFIXES	Time Entry by Individual w/Equipment	2012
*PGM	P081810	RPG	JDEFIXES	CUSTOM Employees by Job Type & Step CompR	2012
*PGM	P55061121	RPG	JDEFIXES		2012
*PGM	P55ACTRL	RPG	JDEFIXES	Create Animal Control JDF File	2012
*PGM	P55AFIN	CBL	JDEFIXES	Monthly insurance for AFSCME -- JOR	2012
*PGM	P55BDEP	RPG	JDEFIXES		2012
*PGM	P55BEMPD	RPG	JDEFIXES		2012
*PGM	P55BEMPDV	RPG	JDEFIXES		2012
*PGM	P55BEMPH	RPG	JDEFIXES		2012
*PGM	P55F0618SM	RPG	JDEFIXES		2012
*PGM	P55FLSA	RPG	JDEFIXES	FLSA Exempt Audit Report for Joan Quirke	2012
*PGM	P55HCR04	RPG	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	2012
*PGM	P55HCR05	RPG	JDEFIXES	Health Cost Report of Special Earnings by Bus Unit	2012
*PGM	P55HMOE	RPG	JDEFIXES	End Employee Enroll in Health Plan for Joan Quirke	2012
*PGM	P55HMOS	RPG	JDEFIXES	Enroll Employee HMO Health Plan for Joan Quirke	2012
*PGM	P55JUD04	RPG	JDEFIXES	Judges' Supplemental Payroll for Don Fronk -- JOR	2012
*PGM	P55PEN2	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	2012
*PGM	P55PEN2A	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	2012

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P55PEN2R	RPG	JDEFIXES	Pension Records That Have Been Ended for J. Quirke	2012
*PGM	P55PHYP	RPG	JDEFIXES		2012
*PGM	P55PHYP1	RPG	JDEFIXES		2012
*PGM	P55PHYPD	RPG	JDEFIXES		2012
*PGM	P55PHYPF	RPG	JDEFIXES		2012
*PGM	P55PHYPH	RPG	JDEFIXES		2012
*PGM	P55POS05	RPG	JDEFIXES	Report - All Positions, position exceptions	2012
*PGM	P55POS06	RPG	JDEFIXES	Report - All Positions inc step	2012
*PGM	P55POS07	RPG	JDEFIXES	Report - All Positions inc step & rate	2012
*PGM	P55POS08	RPG	JDEFIXES	Report - All Positions sort by title	2012
*PGM	P55POS13	RPG	JDEFIXES	Report - position exceptions only	2012
*PGM	P55POS18	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (Match)	2012
*PGM	P55POS21	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (All)	2012
*PGM	P55POS33	RPG	JDEFIXES	Report - Open Positions by Job Code	2012
*PGM	P55PPR3A	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*PGM	P55PPR3B	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*PGM	P55PPR3C	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*PGM	P55PPR3D	RPG	JDEFIXES	Health Employees w Timecards in Physical and ASC	2012
*PGM	P55TCAPTUR	RPG	JDEFIXES	Capture DBA info for input to tapes by payroll	2012
*PGM	P55TRN2A	RPG	JDEFIXES		2012
*PGM	P55TRN2B	RPG	JDEFIXES	To use date from screen instead of YMPTDT.	2012
*PGM	P55UNSM2	RPG	JDEFIXES	Print Union Summary for Ind. Nurses Assoc.	2012
*PGM	P55UNSMC	RPG	JDEFIXES	Employee Union Membership	2012
*PGM	P55UNWY1	RPG	JDEFIXES	United Way Eligible Employee Donor File for Joan	2012
*PGM	P57POS04A	RPG	JDEFIXES	Report - All Positions with budget $ and bu totals	2012
*PGM	P57POS04B	RPG	JDEFIXES	Report - Open Positions Revised 6/5/2003 D SHAH	2012
*PGM	P58AR20	RPG	JDEFIXES	12/12/2012, added 'TM' to validation list	2012
*PGM	P58AR20A	RPG	JDEFIXES	JDE AR Home Rule Tax Return Creation for J. Quirke	2012
*PGM	P58AR6	RPG	JDEFIXES	Health Billing to the Customer Master for C. Kane	2012
*PGM	P58AR8	RPG	JDEFIXES	Does F55THIK.	2012
*PGM	ACCRUALBAL	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE	2013
*PGM	ACCRUALBOA	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE	2013
*PGM	ACCRUALBPS	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service	2013
*PGM	ACCRUALMIS	CLP	JDEFIXES	Create Cook County MIS ACCRUAL FILE	2013
*PGM	ACCRUALOBA	CLP	JDEFIXES	Create Cook County OBA ACCRUAL FILE	2013
*PGM	ACCRUALRMD	CLP	JDEFIXES	Create Cook County RMD ACCRUAL FILE	2013
*PGM	ACTCORPDBA	CLP	JDEFIXES	Create Cook County FPD ACTIVE DBA FILE	2013
*PGM	EDLIAUBA	CLP	JDEFIXES		2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J04572WFTP	CLP	JDEFIXES	EqualLevel Purchase Order File	2013
*PGM	J06110Z	CLP	JDEFIXES	Open Architecture - Employee Trans Batch Processin	2013
*PGM	J06116BOH	CLP	JDEFIXES	Upload Timecards - Clear Workfile	2013
*PGM	J06116CMK	CLP	JDEFIXES		2013
*PGM	J06116CMKS	CLP	JDEFIXES		2013
*PGM	J06116HLT	CLP	JDEFIXES		2013
*PGM	J06116HLZ	CLP	JDEFIXES		2013
*PGM	J06116HLZS	CLP	JDEFIXES		2013
*PGM	J06116OFH	CLP	JDEFIXES		2013
*PGM	J06116OFHS	CLP	JDEFIXES		2013
*PGM	J06116PMC	CLP	JDEFIXES		2013
*PGM	J06116PMCS	CLP	JDEFIXES		2013
*PGM	J061191FP	CLP	JDEFIXES		2013
*PGM	J06210JQ	CLP	JDEFIXES	Pre-Payroll - Batch Job Stream	2013
*PGM	J062301	CLP	JDEFIXES	Print Paychecks - Interactive Processing Parameter	2013
*PGM	J06250	CLP	JDEFIXES	Final Update - Interactive Processing Parameters	2013
*PGM	J06250JQ	CLP	JDEFIXES	Final Update - Batch Job Stream	2013
*PGM	J064501	CLP	JDEFIXES	Accrual Report Changes by JDE Download FTP	2013
*PGM	J064501PTM	CLP	JDEFIXES	Benefit Accrual Roster more than 10 PDBA's	2013
*PGM	J06493	CLP	JDEFIXES	Payroll Voucher Journal Detail	2013
*PGM	J065501	CLP	JDEFIXES	CUSTOM Auto Bank Deposit File Creation	2013
*PGM	J068301CCH	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J068301CMK	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J068301COR	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J068301FPD	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J068301OFH	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J068301PMC	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	2013
*PGM	J080200	CLP	JDEFIXES	HLT & DPH Union Employees Report	2013
*PGM	J55061121S	CLP	JDEFIXES		2013
*PGM	J550801	CLP	JDEFIXES	Employee Master - HR Initial Setup	2013
*PGM	J55116AMB5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	2013
*PGM	J55116ASR4	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm	2013
*PGM	J55116ASR5	CLP	JDEFIXES	Upload Timecards - CCASSR CLEAR WORKFILE	2013
*PGM	J55116BOA4	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm	2013
*PGM	J55116BOA5	CLP	JDEFIXES	Upload Timecards - BOA Clrpfm	2013
*PGM	J55116BPS4	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm	2013
*PGM	J55116BPS5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE	2013
*PGM	J55116CCC4	CLP	JDEFIXES	Upload Timecards - CCC Cpyf, Clrpfm	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55116CCH3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	2013
*PGM	J55116CCH7	CLP	JDEFIXES	Upload Timecards - Clear Workfile	2013
*PGM	J55116CCJ	CLP	JDEFIXES	Upload Timecards CHFJG DPT#310	2013
*PGM	J55116CCJ1	CLP	JDEFIXES	Upload Timecards CHFJG DPT#280	2013
*PGM	J55116CCJ2	CLP	JDEFIXES	Upload Timecards CHFJG DPT#313	2013
*PGM	J55116CCJ3	CLP	JDEFIXES	Upload Timecards CHFJG DPT#326 #538	2013
*PGM	J55116CCJ4	CLP	JDEFIXES	Upload Timecards CHFJG DPT#305	2013
*PGM	J55116CCJ5	CLP	JDEFIXES	Upload Timecards CHFJG DPT#312	2013
*PGM	J55116CMK5	CLP	JDEFIXES	Upload Timecards - CCCMK CLEAR WORKFILE	2013
*PGM	J55116COC4	CLP	JDEFIXES	Upload Timecards - CCO Cpyf, Clrpfm	2013
*PGM	J55116COM2	CLP	JDEFIXES	Clear Error File F0040	2013
*PGM	J55116COMP	CLP	JDEFIXES	'Upload Timecards - Comptroller's Office'	2013
*PGM	J55116CRE5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	2013
*PGM	J55116DPH4	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	2013
*PGM	J55116DPH5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	2013
*PGM	J55116MIS4	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm	2013
*PGM	J55116OBA4	CLP	JDEFIXES	Upload Timecards - OBA Cpyf, Clrpfm	2013
*PGM	J55116OFC5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE	2013
*PGM	J55116OFH5	CLP	JDEFIXES	Upload Timecards - CCOFH CLEAR WORKFILE	2013
*PGM	J55116PGM	CLP	JDEFIXES	Retro Pay Upload Job	2013
*PGM	J55116PMC5	CLP	JDEFIXES	Upload Timecards - CCPMC CLEAR WORKFILE	2013
*PGM	J55116RET1	CLP	JDEFIXES	Upload Timecards - RETRO CHECK	2013
*PGM	J55116RMD4	CLP	JDEFIXES	Upload Timecards - BOF Cpyf, Clrpfm	2013
*PGM	J55116SBM	CLP	JDEFIXES	Retro Pay Upload Job	2013
*PGM	J55116SHE3	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm	2013
*PGM	J55116STA4	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	2013
*PGM	J55116STA5	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	2013
*PGM	J551211	CLP	JDEFIXES	CCCOPY Inquiry - Batch Summary by Batch RANGE	2013
*PGM	J551215	CLP	JDEFIXES	Custom Positions Inquiry -- JOR	2013
*PGM	J551221	CLP	JDEFIXES	CCCOPY Inquiry - Batch Summary by Pay Type RANGE	2013
*PGM	J551231	CLP	JDEFIXES	CCCOPY Inquiry - Batch Detail Review RANGE	2013
*PGM	J552301TRN	CLP	JDEFIXES	CUSTOM -- Transfer spoolfiles using FTP (PayCycle)	2013
*PGM	J55250TRN	CLP	JDEFIXES	CUSTOM -- Transfer Positive Pay to mainframe	2013
*PGM	J55250XXX	CLP	JDEFIXES	CUSTOM -- Calls J55THIB which calls P55THIB	2013
*PGM	J553501	CLP	JDEFIXES	Populate check file into F553501 history	2013
*PGM	J553501C	CLP	JDEFIXES		2013
*PGM	J553501CB	CLP	JDEFIXES	Batch version of J553501C -- JOR (Post 6/15/2010)	2013
*PGM	J553501FB	CLP	JDEFIXES	Batch version of J553501F -- JOR	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J553501HB	CLP	JDEFIXES	Batch version of J553501H -- JOR	2013
*PGM	J555501TRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe	2013
*PGM	J55ACC02	CLP	JDEFIXES	Accrual Balance Export Program for Joan Quirke	2013
*PGM	J55ACC02S	CLP	JDEFIXES	Accrual Balance Export Program for Joan Quirke	2013
*PGM	J55ACC04	CLP	JDEFIXES	Newer than J55ACC01 - O. F. VAC. AND SICK ACCR	2013
*PGM	J55ACC04S	CLP	JDEFIXES	Newer than J55ACC01 - O. F. VAC. AND SICK AC	2013
*PGM	J55ACC05	CLP	JDEFIXES	Sick and Vacation Accrued Liability Report	2013
*PGM	J55ACC05S	CLP	JDEFIXES	Sick and Vacation Accrued Liability Report	2013
*PGM	J55ACR1	CLP	JDEFIXES	Employee Absence by Category Report for Joan	2013
*PGM	J55ACR1SM	CLP	JDEFIXES	Employee Absence by Category Report for Joan	2013
*PGM	J55AGEUP	CLP	JDEFIXES		2013
*PGM	J55ALPHA	CLP	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP	2013
*PGM	J55ALPHAS	CLP	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP -- JOR	2013
*PGM	J55AM1	CLP	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*PGM	J55AM1SM	CLP	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*PGM	J55ASC30	CLP	JDEFIXES	08-25-2008, new balance file -- JOR	2013
*PGM	J55ASC30SM	CLP	JDEFIXES	Novatime Employee Master Download File for Joan Q.	2013
*PGM	J55B082001	CLP	JDEFIXES	Backup - create copy of F082001 Pay Grade/Step	2013
*PGM	J55BENWEEK	CLP	JDEFIXES	Transfer Weeekly Benefits using FTP - JOR	2013
*PGM	J55BLDFTP	CLP	JDEFIXES	Build FTP	2013
*PGM	J55BOAEMPF	CLP	JDEFIXES	Create Cook County HYW EMP MAST FILE	2013
*PGM	J55BPENLB	CLP	JDEFIXES	12-29-2010 new -- JOR **********	2013
*PGM	J55BPSEMPF	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service	2013
*PGM	J55CCCEMPF	CLP	JDEFIXES	Create Cook County Curcuit Court Emp MastFile	2013
*PGM	J55CHIKB	CLP	JDEFIXES	Batch version of J553501C -- JOR	2013
*PGM	J55CUSTP	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*PGM	J55DATES	CLP	JDEFIXES	Online screen to convert dates	2013
*PGM	J55DATES2	CLP	JDEFIXES	Online screen to Increment/Decrement dates	2013
*PGM	J55DEFTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	2013
*PGM	J55DEPTXSB	CLP	JDEFIXES		2013
*PGM	J55DNL1	CLP	JDEFIXES	Payroll and HR Download Files for Joan Quirke	2013
*PGM	J55EACTRSB	CLP	JDEFIXES	Transfers-Only Download Report File for Joan	2013
*PGM	J55EACTRSC	CLP	JDEFIXES	Transfers-Only Download Report File for Joan	2013
*PGM	J55EACTVSB	CLP	JDEFIXES	05-10-2010 modification -- JOR	2013
*PGM	J55EACTVSC	CLP	JDEFIXES	05-25-2010 Modification.	2013
*PGM	J55EARN2SB	CLP	JDEFIXES	create selective earnings (Overtime) report-Screen	2013
*PGM	J55EDITS	CLP	JDEFIXES	Edits/Fixes to be run periodically PAYROLL	2013
*PGM	J55EDSTR1	CLP	JDEFIXES	Payroll Earnings and Deductions Summary Rep	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55EDSTR1B	CLP	JDEFIXES	Batch version of J55EDSTR1 - JOR	2013
*PGM	J55EDSTR1S	CLP	JDEFIXES	Payroll Earnings and Deductions Summary Rep	2013
*PGM	J55EDSTR2B	CLP	JDEFIXES	Batch version of J55EDSTR2 - JOR	2013
*PGM	J55EMPDPHL	CLP	JDEFIXES	Print HLT & DPH Union Employees	2013
*PGM	J55EQLLVL	CLP	JDEFIXES		2013
*PGM	J55EQLVL	CLP	JDEFIXES		2013
*PGM	J55EXC01	CLP	JDEFIXES	Differences between current and prior payroll, JOR	2013
*PGM	J55EXC02	CLP	JDEFIXES	Payroll exception reports, override amounts -- JOR	2013
*PGM	J55EXC03	CLP	JDEFIXES	Payroll exception, days worked outside py-pd - JOR	2013
*PGM	J55EXC04	CLP	JDEFIXES	Payroll exceptions, Check standard hours -- JOR	2013
*PGM	J55EXC05	CLP	JDEFIXES	Update object account for Non-110 -- JOR	2013
*PGM	J55F04572W	CLP	JDEFIXES		2013
*PGM	J55F4301	CLP	JDEFIXES	EqualLevel Purchase Order File	2013
*PGM	J55F4311	CLP	JDEFIXES	EqualLevel Purchase Order File	2013
*PGM	J55FLXCP	CLP	JDEFIXES		2013
*PGM	J55FLXSP	CLP	JDEFIXES		2013
*PGM	J55FPDFTP	CLP	JDEFIXES	Transfer Funding file (F56FPFTP) Positive Pay	2013
*PGM	J55FUND01R	CLP	JDEFIXES	09-05-03 B/U from ccdev400.jdefixes.cccustom	2013
*PGM	J55FUNDFTP	CLP	JDEFIXES	Transfer Funding file (F560001P) Positive Pay	2013
*PGM	J55GARN01	CLP	JDEFIXES	Report - Garnishments w/Unpaid Hours	2013
*PGM	J55HCR02	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	2013
*PGM	J55HCR02SM	CLP	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	2013
*PGM	J55HCR12	CLP	JDEFIXES	Health Cost Report - Overtime Summary by Employee	2013
*PGM	J55HCR12SM	CLP	JDEFIXES	Health Cost Report - Overtime Summary by Employee	2013
*PGM	J55HCR14	CLP	JDEFIXES	Changed 02-02-2010 -- JOR	2013
*PGM	J55HCR14SM	CLP	JDEFIXES	Changed 02-02-2010 -- JOR	2013
*PGM	J55HCRXX	CLP	JDEFIXES	Health Summary Earning Register Download File	2013
*PGM	J55HCRXXSM	CLP	JDEFIXES	Health Summary Earning Register Download File	2013
*PGM	J55HCSC	CLP	JDEFIXES	Health Care Service Corporation for Patel	2013
*PGM	J55HCSCTRN	CLP	JDEFIXES	Health Care Service Corporation for Patel	2013
*PGM	J55HHIKB	CLP	JDEFIXES	Batch version of J553501C -- JOR	2013
*PGM	J55HLTENRL	CLP	JDEFIXES	Health Deduction Rate Customization	2013
*PGM	J55HLTHSA	CLP	JDEFIXES	CCH House Staff Assoc. Union Membership File	2013
*PGM	J55HR330	CLP	JDEFIXES	INSURANCE CENSUS TAPE PROGRAM	2013
*PGM	J55HWAYMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	2013
*PGM	J55INVP	CLP	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*PGM	J55MDTAQ	CLP	JDEFIXES	Monthly - delete/recreate dtaq	2013
*PGM	J55MET1	CLP	JDEFIXES	Master Employee Table for Patel	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55MET1TRN	CLP	JDEFIXES	Master Employee Table for Patel	2013
*PGM	J55MINICOR	CLP	JDEFIXES	Create mini Empl file for compt Accrl Adj	2013
*PGM	J55MIS01SM	CLP	JDEFIXES	Submit Rerun FTP of Bottomline files	2013
*PGM	J55MIS02SM	CLP	JDEFIXES	Submit Rerun Payroll Downloads (deductions)	2013
*PGM	J55MISEMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	2013
*PGM	J55NATDRCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	2013
*PGM	J55NATDRHB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	2013
*PGM	J55NFR3	CLP	JDEFIXES		2013
*PGM	J55NFR3R	CLP	JDEFIXES	Invented 10/21/2010 -- JOR	2013
*PGM	J55NFR3SND	CLP	JDEFIXES	REVSHARE for Joan Quirke.	2013
*PGM	J55NFRC1	CLP	JDEFIXES		2013
*PGM	J55NFRC1R	CLP	JDEFIXES	Invented 10/21/2010 -- JOR	2013
*PGM	J55NFRC1SN	CLP	JDEFIXES	REVSHARE for Joan Quirke.	2013
*PGM	J55OBAEMPF	CLP	JDEFIXES	Create Cook County FPD EMP MAST FILE	2013
*PGM	J55PAYDATE	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	2013
*PGM	J55PAYTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	2013
*PGM	J55PEM1	CLP	JDEFIXES	Single Plan Entry Maintenance Screen for Joan	2013
*PGM	J55PENSUPD	CLP	JDEFIXES	05/14/2012, omit if yapast = T, 9, or L -- JOR	2013
*PGM	J55POS01	CLP	JDEFIXES	Report - Open Positions	2013
*PGM	J55POS01SM	CLP	JDEFIXES	Submit Report - Open Positions	2013
*PGM	J55POS02	CLP	JDEFIXES	Report - All Positions	2013
*PGM	J55POS02SM	CLP	JDEFIXES	Submit Report - All Positions	2013
*PGM	J55POS03	CLP	JDEFIXES	Report - All Positions w/budgets	2013
*PGM	J55POS03SM	CLP	JDEFIXES	Submit Report - All Positions w/budgets	2013
*PGM	J55POS04	CLP	JDEFIXES	Report - All Positions w/budgets, bu total	2013
*PGM	J55POS04SM	CLP	JDEFIXES	Submit Report - All Positions w/budgets, bu total	2013
*PGM	J55POS08SM	CLP	JDEFIXES	Submit Report - All Positions sort by title	2013
*PGM	J55POS09	CLP	JDEFIXES	Report - All Positions sort by grade, title	2013
*PGM	J55POS09SM	CLP	JDEFIXES	Submit Report - All Positions sort by grade, titl	2013
*PGM	J55POS12	CLP	JDEFIXES	Report - All Positions sort by grade, title	2013
*PGM	J55POS12SM	CLP	JDEFIXES	Submit Report -	2013
*PGM	J55POS16	CLP	JDEFIXES	Report - All Positions exceptions by dpt,alpha	2013
*PGM	J55POS16SM	CLP	JDEFIXES	Submit Report - All Positions exc by dpt,alpha	2013
*PGM	J55POS17	CLP	JDEFIXES	Report - All Positions position excep inc. L	2013
*PGM	J55POS17SM	CLP	JDEFIXES	Submit Report - All Positions position except w/L	2013
*PGM	J55POS19	CLP	JDEFIXES	Report - Compare positions and amounts (NEGATIVE)	2013
*PGM	J55POS19SM	CLP	JDEFIXES	Submit Report - Compare negatives	2013
*PGM	J55POS20	CLP	JDEFIXES	Report - Compare positions and amounts (POSITIVE)	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55POS20SM	CLP	JDEFIXES	Submit Report - Compare positives	2013
*PGM	J55POS24	CLP	JDEFIXES	Create download file	2013
*PGM	J55POS24SM	CLP	JDEFIXES	Submit Create download file	2013
*PGM	J55POS34	CLP	JDEFIXES	Open POS sort by HBU and Jobcd	2013
*PGM	J55POS34SM	CLP	JDEFIXES	Open POS sort by HBU and Jobcd	2013
*PGM	J55POS35	CLP	JDEFIXES	Open POS sort by Dpt and Jobcd	2013
*PGM	J55POS35SM	CLP	JDEFIXES	Open POS sort by Dpt and Jobcd	2013
*PGM	J55POSB03	CLP	JDEFIXES	Update - Next Raise Date using subroutine	2013
*PGM	J55POSB03S	CLP	JDEFIXES	Submit Update - Salary Forecast	2013
*PGM	J55POSN01S	CLP	JDEFIXES	Submit Report - Open Positions for FPD -- JOR	2013
*PGM	J55POSN02S	CLP	JDEFIXES	Submit Report - All Positions for FPD -- JOR	2013
*PGM	J55POSN03S	CLP	JDEFIXES	Submit Report - All Positions w/budgets, FPD, JOR	2013
*PGM	J55POSN04S	CLP	JDEFIXES	Submit Report - All Positions w/budgets, bu total	2013
*PGM	J55POSN12S	CLP	JDEFIXES	Report - All Positions (select JBCD) for FPD, JOR	2013
*PGM	J55POSN16S	CLP	JDEFIXES	Report - All Pos, ee,exc by dpt,alpha for FPD, JOR	2013
*PGM	J55PPLGLXB	CLP	JDEFIXES	Batch version of J55PPLGLX -- JOR	2013
*PGM	J55PPR02	CLP	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	J55PPR02SM	CLP	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	J55PPR3SM	CLP	JDEFIXES	Health Employees w Timecards in Physical and ASC	2013
*PGM	J55PTM03	CLP	JDEFIXES	Part Time Health and Accrual DBA Rate Update, Joan	2013
*PGM	J55RM340	CLP	JDEFIXES	Prepare input to benefits screen.	2013
*PGM	J55RM340TP	CLP	JDEFIXES	Replaces J55HR330TP, 03-17-2006	2013
*PGM	J55RMDEMPF	CLP	JDEFIXES	Create Cook County MIS EMP MAST FILE	2013
*PGM	J55SHEMPF	CLP	JDEFIXES	Create Cook County SHERIF"S Emp MastFile	2013
*PGM	J55SHEMPN	CLP	JDEFIXES	Create Cook County SHERIFS Emp ADDRESS FILE	2013
*PGM	J55SLEEP01	CLP	JDEFIXES	Compt Sleeper Reports Missing Pension and Query	2013
*PGM	J55SMARTCD	CLP	JDEFIXES	Create SmartCard Employee file in JDETIME	2013
*PGM	J55T743	CLP	JDEFIXES		2013
*PGM	J55TBENMDV	CLP	JDEFIXES	Calls J55TBENWK for Weekly Benefits	2013
*PGM	J55TBENWK	CLP	JDEFIXES	Create Tape Layout for Weekly Benefits	2013
*PGM	J55TBENWK2	CLP	JDEFIXES	06/20/2012 Create File for Weekly Non-Emps JOR	2013
*PGM	J55TBONDB	CLP	JDEFIXES	FMIS BONDS PAYMENTS - PRINT HOLD = *NO (BATCH)	2013
*PGM	J55TCALIB	CLP	JDEFIXES	Califiornia Nurses Union processing	2013
*PGM	J55TDCL	CLP	JDEFIXES		2013
*PGM	J55TDEFLB	CLP	JDEFIXES	Batch version of J553501C-Writes rept files to V:/	2013
*PGM	J55TDFCTRN	CLP	JDEFIXES	FTP to send two Deferred Comp. Rept. files to V:/	2013
*PGM	J55TFLXGB	CLP	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	2013
*PGM	J55THIKB	CLP	JDEFIXES	Health insurance billings -- JOR	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55TIER1	CLP	JDEFIXES	Incorrect Health Tier Enrollment Report for Joan	2013
*PGM	J55TIER2	CLP	JDEFIXES	Incorrect Dental/Vision Enrollment for Joan Quirke	2013
*PGM	J55TIME01	CLP	JDEFIXES	** Report - Timecard Batch Detail & Totals	2013
*PGM	J55TIME01S	CLP	JDEFIXES	** Report - Timecard Batch Detail & Totals	2013
*PGM	J55TIME02	CLP	JDEFIXES	Report - Timecard Standard Hours -- DG&JOR	2013
*PGM	J55TIME02S	CLP	JDEFIXES	Report - Timecard Standard Hours -- DG&JOR	2013
*PGM	J55TIME20	CLP	JDEFIXES	Health Timecard Detail by Employee	2013
*PGM	J55TIME20S	CLP	JDEFIXES	Health Timecard Detail by Employee	2013
*PGM	J55TIME21	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	J55TIME21D	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	J55TIME21S	CLP	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	J55TLFBA	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBTRN.	2013
*PGM	J55TLFBABF	CLP	JDEFIXES	Process for Aetna Insurance for "ABF".	2013
*PGM	J55TLFBAWK	CLP	JDEFIXES	Process for Aetna Insurance. Calls J55TLFBA.	2013
*PGM	J55TLFBTRN	CLP	JDEFIXES	Process for Aetna Insurance.	2013
*PGM	J55TLFOB	CLP	JDEFIXES	OPT LIFE INSUR PGM FOR BATCH PROCESSING - HOLD=*NO	2013
*PGM	J55TLIFL	CLP	JDEFIXES	New J55TLIFL(8/01/06) writes Report File toPAYLIBs	2013
*PGM	J55TLIFLB	CLP	JDEFIXES	New J55TLIFLB(8/01/06) AIG Rept File to PAYLIBS	2013
*PGM	J55TPENRR	CLP	JDEFIXES	06-17-2010 modifications	2013
*PGM	J55TRN1SM	CLP	JDEFIXES		2013
*PGM	J55TRN6	CLP	JDEFIXES	Transit DBA Deduction History Report	2013
*PGM	J55TRN6SM	CLP	JDEFIXES	Transit DBA Deduction History Report	2013
*PGM	J55TRNST	CLP	JDEFIXES	Wageworks Transit Eligibility File	2013
*PGM	J55TU46B	CLP	JDEFIXES	SEIU 73/20 UNION DUES REPT-PRINT HOLD=*NO (BATCH)	2013
*PGM	J55TUAFLB	CLP	JDEFIXES	AFSCME UNION DUES AND PAC REPORTS - PRINT HOLD=*NO	2013
*PGM	J55TUNHSA	CLP	JDEFIXES	TDD-091106-Test-CPYF-mod-for-CCH House Staff Assoc	2013
*PGM	J55TUWAYB	CLP	JDEFIXES	UNITED WAY PAYROLL REPORT - PRINT HOLD=*NO (BATCH)	2013
*PGM	J55UNLGLCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	2013
*PGM	J55UNSM1B	CLP	JDEFIXES	Batch version of J55UNSM1 BATCH-PRINT HOLD=*NO	2013
*PGM	J55UNSM3B	CLP	JDEFIXES	Batch version of J55UNSM3 BATCH-PRINT Hold=*NO	2013
*PGM	J55UNSM4B	CLP	JDEFIXES	Batch version of J55UNSM4 BATCH-PRINT Hold=*NO	2013
*PGM	J55UNSM5B	CLP	JDEFIXES		2013
*PGM	J55UNSM6B	CLP	JDEFIXES	Batch vers. of J55UNSM6 - HOUSE STAFF ASSOC DUES	2013
*PGM	J55UNSMDB	CLP	JDEFIXES	Print Doctors Council Union Report (Batch)	2013
*PGM	J55UNSSMCB	CLP	JDEFIXES	Batch version of J55UNSSMC -- JOR	2013
*PGM	J55UNSSMHB	CLP	JDEFIXES	Batch version of J55UNSSMH -- JOR	2013
*PGM	J55UNSUMCB	CLP	JDEFIXES	Batch version of J55UNSUMC-JOR,03/09/07 DBA7019	2013
*PGM	J55UNSUMHB	CLP	JDEFIXES	Batch version of J55UNSUMH-JOR,DBA 7019 on 0307	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	J55UPASR	CLP	JDEFIXES	Reference to legacy empl# to fmis empl#	2013
*PGM	J55VEND3CB	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	2013
*PGM	J55VEND3FB	CLP	JDEFIXES	Batch-New J55VEND3FB(08/01/06) AIG REPT FILE-TDD	2013
*PGM	J55VEND3HB	CLP	JDEFIXES	Batch-New J55VEND3HB(08/01/06) AIG REPT FILE-TDD	2013
*PGM	J55VND03F	CLP	JDEFIXES	HMO/PPO BILLS-FPD-A/R READY ON 6/4/7	2013
*PGM	J55W2FILE	CLP	JDEFIXES	File that maps to SYS1.PANLIB(W2FILEFD01) -- JOR	2013
*PGM	J55W2FILSM	CLP	JDEFIXES	Calls J55W2FILE -- JOR	2013
*PGM	J560010	CLP	JDEFIXES	AP Check Extract	2013
*PGM	J560010TRN	CLP	JDEFIXES	CUSTOM -- Transfer AP Extract info to mainframe	2013
*PGM	J57POS04SM	CLP	JDEFIXES	Submit Report - All Positions position exceptions	2013
*PGM	J58AR7	CLP	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	J58AR7C	CLP	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	J59COOKC	CLP	JDEFIXES		2013
*PGM	J59COOKF	CLP	JDEFIXES		2013
*PGM	J69COOKC	CLP	JDEFIXES		2013
*PGM	J79COOKC	CLP	JDEFIXES		2013
*PGM	P01901	RPG	JDEFIXES	Create Address Book Repository File	2013
*PGM	P060101	RPG	JDEFIXES	Custom Basic Employee ---- Initial Entry CompR	2013
*PGM	P060111	RPG	JDEFIXES	Custom Basic Employee Data CompR	2013
*PGM	P060116EMP	RPG	JDEFIXES		2013
*PGM	P060121	RPG	JDEFIXES	CUSTOM Extended Employee - Pay and Tax Info HMc12	2013
*PGM	P060161	RPG	JDEFIXES	CUSTOM Extended Employee - Term/Rehire CompR	2013
*PGM	P060190	RPG	JDEFIXES	CUSTOM Extended Employee - Dates, Elig & EEO CompR	2013
*PGM	P06099	RPG	JDEFIXES	Time and Pay Inquiry	2013
*PGM	P061121	RPG	JDEFIXES	Time Entry by Individual	2013
*PGM	P06116COP	RPG	JDEFIXES		2013
*PGM	P06116HLT	RPG	JDEFIXES		2013
*PGM	P06116HLZ	RPG	JDEFIXES		2013
*PGM	P06116POC	RPG	JDEFIXES		2013
*PGM	P061191	RPG	JDEFIXES	Daily Time Card Entry	2013
*PGM	P06166ZZ	RPG	JDEFIXES	Changed 04-08-2008 -- JOR	2013
*PGM	P062011	RPG	JDEFIXES	Pre-payroll - Gross Pay Deductions	2013
*PGM	P062021	RPG	JDEFIXES	FIX Pre-Payroll - Net Deduct & Benefit Calcs c12	2013
*PGM	P062031	RPG	JDEFIXES	Pre-payroll - Tax Calculation Work File Build	2013
*PGM	P062162	RPG	JDEFIXES	CUSTOM Reset Payroll Lockout c12	2013
*PGM	P06230	RPG	JDEFIXES	CUSTOM Print Paychecks c12	2013
*PGM	P06231	RPG	JDEFIXES	Report - Print Paychecks	2013
*PGM	P06233	RPG	JDEFIXES	CUSTOM Report - Automatic Deposit Advice c12	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P063012	RPG	JDEFIXES	CUSTOM Print - Payroll Register c12	2013
*PGM	P063501	RPG	JDEFIXES	Paycheck Work File Build	2013
*PGM	P063502	RPG	JDEFIXES	Pre-payroll - Changes Only Check Work File Merge	2013
*PGM	P063504	RPG	JDEFIXES	CUSTOM Pay Check Rerun/Restart Control & rset c12	2013
*PGM	P06394	RPG	JDEFIXES	CUSTOM Update Future Data to Employee Master HMc12	2013
*PGM	P064501	RPG	JDEFIXES	Benefit Accrual Roster	2013
*PGM	P064501PTM	RPG	JDEFIXES	Benefit Accrual Roster for J064501PTM	2013
*PGM	P06492	RPG	JDEFIXES	FIX0801 - Create Payroll Vouchers	2013
*PGM	P06493	RPG	JDEFIXES		2013
*PGM	P068314	RPG	JDEFIXES	Illinois Magnetic Media Reporting	2013
*PGM	P069021	RPG	JDEFIXES	Table File Rev	2013
*PGM	P0801	RPG	JDEFIXES	Employee Master - HR Initial Setup	2013
*PGM	P08101	RPG	JDEFIXES	CUSTOM Update Positions by B.U. -- JOR	2013
*PGM	P081011	RPG	JDEFIXES	FIX0301 Position Master Detail	2013
*PGM	P08111	RPG	JDEFIXES	FIX - Activity by Position	2013
*PGM	P081112	RPG	JDEFIXES	Employee Activity Maintenance	2013
*PGM	P081210	RPG	JDEFIXES	CUSTOM Positions by Business Unit -- JOR Fund	2013
*PGM	P082005	RPG	JDEFIXES	FIXC12 - Build Grade Progression Work Group	2013
*PGM	P08334	RPG	JDEFIXES	FIX0301 - Benefit Group Selections	2013
*PGM	P08DBA	RPG	JDEFIXES	FIX0301 - Enrollment with Option	2013
*PGM	P08DBA2	RPG	JDEFIXES	FIX0301 - Enrollment Detail Window	2013
*PGM	P08PS	RPG	JDEFIXES	CUSTOM -- Position Search Window	2013
*PGM	P5506116UP	RPG	JDEFIXES		2013
*PGM	P550801	RPG	JDEFIXES	Custom- Employee Master - w/ cook co customization	2013
*PGM	P55116OFH	RPG	JDEFIXES		2013
*PGM	P551211	RPG	JDEFIXES	CCCOPY Inquiry - Review by Batch w/Date RANGE	2013
*PGM	P551215	RPG	JDEFIXES	CUSTOM Position (Only) Inquiry	2013
*PGM	P551221	RPG	JDEFIXES	CCCOPY Inquiry - Batch Summary by Pay Type RANGE	2013
*PGM	P551231	RPG	JDEFIXES	CCCOPY Inquiry - Batch Detail Review RANGE	2013
*PGM	P553501	RPG	JDEFIXES	Populate check file into F553501 history	2013
*PGM	P556116PGM	RPG	JDEFIXES	Retro Pay Upload Program	2013
*PGM	P55ABMCU	RPG	JDEFIXES	FIXES --- YAMCU to ABMCU	2013
*PGM	P55ACC02	RPG	JDEFIXES	Accrual Balance Export Program for Joan Quirke	2013
*PGM	P55ACC04	RPG	JDEFIXES	O. F. VAC. AND SICK ACCR	2013
*PGM	P55ACC05	RPG	JDEFIXES	Sick and Vacation Accrued Liability Report	2013
*PGM	P55ACR1	RPG	JDEFIXES	Employee Absence by Category Report for Joan	2013
*PGM	P55ACR1A	RPG	JDEFIXES	Employee Absence by Category Report for Joan	2013
*PGM	P55ACR1B	RPG	JDEFIXES	Employee Absence by Category Report for Joan	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P55AGEUP	RPG	JDEFIXES		2013
*PGM	P55ALPHA	RPG	JDEFIXES	REPORT - ALPHA LIST BY DEPARTMENT, SUBGROUP	2013
*PGM	P55AM1A	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*PGM	P55AM1L	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*PGM	P55AM1M	RPG	JDEFIXES	Absence Management Export Files for Joan Quirke	2013
*PGM	P55ASC30	RPG	JDEFIXES	Novatime Employee Master Download File for Joan Q.	2013
*PGM	P55ASC31	RPG	JDEFIXES	08-25-2008, new balance file -- JOR	2013
*PGM	P55BPEN	RPG	JDEFIXES	07/20/2012 process YAFICM	2013
*PGM	P55BPENY	RPG	JDEFIXES	12-29-2010 new -- JOR **********	2013
*PGM	P55CUSTP1	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*PGM	P55DATE01	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	2013
*PGM	P55DATE02	RPG	JDEFIXES	Make control record for main frame -- JOR	2013
*PGM	P55DATER1	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	2013
*PGM	P55EACM1	RPG	JDEFIXES	05-25-2010 Modification.	2013
*PGM	P55EACR1	RPG	JDEFIXES	Transfers-Only Download Report File for Joan	2013
*PGM	P55EDSTR1	RPG	JDEFIXES	03-14-2011, for new pension DBA's	2013
*PGM	P55EDSTR2	RPG	JDEFIXES	03-14-2011, for new pension DBA's	2013
*PGM	P55EDSTR2A	RPG	JDEFIXES	Revenue Account Groups Summary Report -- JOR	2013
*PGM	P55EMPDPHL	RPG	JDEFIXES	HLT & DPH Union Employees Report	2013
*PGM	P55EXC01	RPG	JDEFIXES	Copied from P55EXCSAVE on April 9, 2001 -- JOR	2013
*PGM	P55EXC02	RPG	JDEFIXES	Payroll exception reports, override amounts -- JOR	2013
*PGM	P55EXC03	RPG	JDEFIXES	Payroll exception, days worked outside py-pd - JOR	2013
*PGM	P55EXC04	RPG	JDEFIXES	Payroll exceptions, Check standard hours -- JOR	2013
*PGM	P55EXC05	RPG	JDEFIXES	Update object account for Non-110 -- JOR	2013
*PGM	P55EXC05B	RPG	JDEFIXES	Aquire the fiscal year for a company	2013
*PGM	P55F04572W	RPG	JDEFIXES		2013
*PGM	P55F060118	RPG	JDEFIXES	FIXES --- Sync F060118 to F060116	2013
*PGM	P55F4301	RPG	JDEFIXES		2013
*PGM	P55F4311	RPG	JDEFIXES		2013
*PGM	P55FLXSP	RPG	JDEFIXES	Update Flex Spending Annual Amount	2013
*PGM	P55FUND01R	RPG	JDEFIXES		2013
*PGM	P55GARN01	RPG	JDEFIXES	Report - garnishments and <80 hrs paid	2013
*PGM	P55HCR02	RPG	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	2013
*PGM	P55HCR03	RPG	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	2013
*PGM	P55HCR03A	RPG	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	2013
*PGM	P55HCR12	RPG	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR	2013
*PGM	P55HCR13	RPG	JDEFIXES	05-06-2009, take hourly rate from F0618 -- JOR	2013
*PGM	P55HCR13A	RPG	JDEFIXES	05-06-2009, compile only -- JOR	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P55HCR14	RPG	JDEFIXES		2013
*PGM	P55HCR14A	RPG	JDEFIXES	3/23/2011, show sign on amounts, hours.	2013
*PGM	P55HCR14B	RPG	JDEFIXES	3/23/2011, show sign on amounts, hours.	2013
*PGM	P55HCR14C	RPG	JDEFIXES	CALCULATE THE FISCAL YEAR WORK DATE RANGE	2013
*PGM	P55HCRX1	RPG	JDEFIXES	Health Summary Earning Register Download File	2013
*PGM	P55HCRXX	RPG	JDEFIXES	Health Summary Earning Register Download File	2013
*PGM	P55HCSC	RPG	JDEFIXES	11/30/2012 insurance enrollment -- JOR	2013
*PGM	P55HLTENRL	RPG	JDEFIXES	Health Deduction Rate Customization	2013
*PGM	P55HR330	CBL	JDEFIXES	INSURANCE CENSUS TAPE PROGRAM	2013
*PGM	P55INVP	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*PGM	P55INVP1	RPG	JDEFIXES	Daily Expt File Pay Connect ACH Project for Joan	2013
*PGM	P55MET1	RPG	JDEFIXES	Master Employee Table for Patel	2013
*PGM	P55NATDRC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	2013
*PGM	P55NATDRH	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	2013
*PGM	P55NATDRN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	2013
*PGM	P55NFR3	RPG	JDEFIXES		2013
*PGM	P55NFRC1	RPG	JDEFIXES		2013
*PGM	P55NFRMB	RPG	JDEFIXES		2013
*PGM	P55PEM1	RPG	JDEFIXES	Single Plan Entry Maintenance Screen for Joan	2013
*PGM	P55PENS01	RPG	JDEFIXES	Missing pension deductions for D. Fronk & S. Molis	2013
*PGM	P55PENSUPD	RPG	JDEFIXES	10/26/2012, use STRTDTE, ENDDTE	2013
*PGM	P55POS01	RPG	JDEFIXES	Report - Open Positions Revised 6/5/2003 D SHAH	2013
*PGM	P55POS02	RPG	JDEFIXES	Report - All Positions	2013
*PGM	P55POS03	RPG	JDEFIXES	Report - All Positions with budget $	2013
*PGM	P55POS04	RPG	JDEFIXES	Report - All Positions with budget $ and bu totals	2013
*PGM	P55POS09	RPG	JDEFIXES	Report - All Positions sort by grade, title	2013
*PGM	P55POS12	RPG	JDEFIXES	Report - All Positions sort by jobcode	2013
*PGM	P55POS16	RPG	JDEFIXES	Report - All Positions, position exc dpt, alpha	2013
*PGM	P55POS17	RPG	JDEFIXES	Report - All Positions, position except inc/L	2013
*PGM	P55POS19	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (NEGATIVES)	2013
*PGM	P55POS20	RPG	JDEFIXES	Compare - YASAL, Budget, Projected (POSITIVES)	2013
*PGM	P55POS24	RPG	JDEFIXES	Create download file	2013
*PGM	P55POS34	RPG	JDEFIXES	Open POS sort by HBU and Jobcd	2013
*PGM	P55POS35	RPG	JDEFIXES	Open POS sort by Dpt and Jobcd	2013
*PGM	P55POSB03	RPG	JDEFIXES	Calls X55LONG -- recompile after X55LONG -- JOR	2013
*PGM	P55PPLGL1	RPG	JDEFIXES	Report Deductions for Pre-Paid Legal -- JOR	2013
*PGM	P55PPR02	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	P55PPR02A	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P55PPR02B	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	P55PPR02C	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	P55PPR02D	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	P55PPR02E	RPG	JDEFIXES	Pre-Payroll and Timecard Discrepancy for J. Quirke	2013
*PGM	P55PTM03	RPG	JDEFIXES	Part Time Health and Accrual DBA Rate Update, Joan	2013
*PGM	P55RM340	CBL	JDEFIXES	Prepare input to benefits screen.	2013
*PGM	P55T743B	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	2013
*PGM	P55TBEN1	CBL	JDEFIXES	12/26/2012, add department "896" to health fundJOR	2013
*PGM	P55TBEN2	CBL	JDEFIXES	11/30/2012 insurance enrollment -- JOR	2013
*PGM	P55TBOND	RPG	JDEFIXES		2013
*PGM	P55TCALI	RPG	JDEFIXES	Califiornia Nurses Union processing	2013
*PGM	P55TDCL	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	2013
*PGM	P55TDEF	RPG	JDEFIXES	Deferred Compensation Tape and Reports	2013
*PGM	P55TFLXG	RPG	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	2013
*PGM	P55TFLXH	RPG	JDEFIXES	Nov 25, 2009, Wage Works 2010 Funding File -- JOR	2013
*PGM	P55THIK	RPG	JDEFIXES	Health insurance billings -- JOR	2013
*PGM	P55THIKA	RPG	JDEFIXES	Health insurance billings -- JOR	2013
*PGM	P55TIER1	RPG	JDEFIXES	Incorrect Health Tier Enrollment Report for Joan	2013
*PGM	P55TIER2	RPG	JDEFIXES	Incorrect Dental/Vision Enrollment for Joan Quirke	2013
*PGM	P55TIME01	RPG	JDEFIXES	** Report - Timecard Batch Detail & Totals	2013
*PGM	P55TIME02	RPG	JDEFIXES	Report - Timecard Standard Hours	2013
*PGM	P55TIME04	RPG	JDEFIXES	** Report - Timecard Batch Detail & Totals	2013
*PGM	P55TIME20	RPG	JDEFIXES	Health Timecard Detail by Employee	2013
*PGM	P55TIME21	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	P55TIME21A	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	P55TIME21B	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	P55TIME21C	RPG	JDEFIXES	Timecards for Employees on LOA or Terminated	2013
*PGM	P55TLFBA	CBL	JDEFIXES	08/14/09 - LIST "ABF" ON THE TERMINATES REPORT JOR	2013
*PGM	P55TLFBD	RPG	JDEFIXES	Set up start and stop dates for J55TLFBA	2013
*PGM	P55TLFO	RPG	JDEFIXES	Modified for AETNA (06-27-2006)	2013
*PGM	P55TLIF	RPG	JDEFIXES	Report and tape layout for life insurance	2013
*PGM	P55TPENZ	RPG	JDEFIXES		2013
*PGM	P55TRN1	RPG	JDEFIXES	Source code changed 01-09-2008.	2013
*PGM	P55TRN6	RPG	JDEFIXES	Transit DBA Deduction History Report	2013
*PGM	P55TRNSK	RPG	JDEFIXES	Wageworks Transit Eligibility File	2013
*PGM	P55TRNST	RPG	JDEFIXES	04/05/2012 -- test for: YAK009 <> 'Y' -- JOR	2013
*PGM	P55TSSN	RPG	JDEFIXES	12-29-2010 level check -- JOR **********	2013
*PGM	P55TU46	RPG	JDEFIXES	SEIU FILE AND COPE ERRORS REPORT (POST 12/16/09)	2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P55TUAF	RPG	JDEFIXES	AFSCME new 186 Record Layout for Union dues(6/6/8)	2013
*PGM	P55TUAF2	RPG	JDEFIXES	AFSCME new 186 char record for Peoples/PAC(6/6/08)	2013
*PGM	P55TUWAY	RPG	JDEFIXES		2013
*PGM	P55UNHSA	RPG	JDEFIXES	CCH House Staff Assoc. Union Membership File	2013
*PGM	P55UNLGLC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	2013
*PGM	P55UNLGLN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	2013
*PGM	P55UNSM1	RPG	JDEFIXES	Print Union Summary for Local 714 only	2013
*PGM	P55UNSM3	RPG	JDEFIXES	Print Union Summary, SEIU 73 and 20(TD and JOR)	2013
*PGM	P55UNSM4	RPG	JDEFIXES	Print Union Summary, Newspaper Guild (TD & JOR)	2013
*PGM	P55UNSM5	RPG	JDEFIXES		2013
*PGM	P55UNSM6	RPG	JDEFIXES	House Staff Assoc dues rept by Emp Name (street)	2013
*PGM	P55UNSMDC	RPG	JDEFIXES	Union Summary, Doctors Council of SEIU20 12/12/08	2013
*PGM	P55UNSMM	RPG	JDEFIXES	Print Cook County Union Employees Summary	2013
*PGM	P55UNSSMC	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Corporate	2013
*PGM	P55UNSSMH	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031) Hospitals	2013
*PGM	P55UNSSMN	RPG	JDEFIXES	Print COPE Union Detail (PDBA 7031)	2013
*PGM	P55UNSUM	RPG	JDEFIXES	Print Cook County Union Employees Summary- 7019 OK	2013
*PGM	P55UNSUMH	RPG	JDEFIXES	Print Cook County Union Employees Summary- 7019 OK	2013
*PGM	P55UP82105	RPG	JDEFIXES	CUSTOM -- Update Payroll WW -- selection (date)	2013
*PGM	P55W2FILE	RPG	JDEFIXES		2013
*PGM	P55YAEST	RPG	JDEFIXES	FIXES --- Update YAEST	2013
*PGM	P55YAHMCO	RPG	JDEFIXES	FIXES - Update YAHMCU from MCMCO	2013
*PGM	P55YAP011	RPG	JDEFIXES	FIXES --- Update YAP011 from MCRP11 (Sub Group)	2013
*PGM	P560001DLT	RPG	JDEFIXES	Delete records more than 14 days old -- JOR	2013
*PGM	P560004	RPG	JDEFIXES	FTP Processing File for Reporting Transfers	2013
*PGM	P560004RPT	RPG	JDEFIXES	Report which payroll libraries have been FTP'd-JOR	2013
*PGM	P560010	RPG	JDEFIXES	Create check extract file (F560001) for funding re	2013
*PGM	P56FP01DLT	RPG	JDEFIXES	Delete records more than 14 days old -- JOR	2013
*PGM	P56FTP2	RPG	JDEFIXES	FTP validation program	2013
*PGM	P58AR7	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58AR7A	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58AR7C	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58AR7CA	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58AR7CR	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58AR7U	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	2013
*PGM	P58JE	CBL	JDEFIXES	Hospital Inventory Transaction Update	2013
*PGM	P59COOKC	RPG	JDEFIXES		2013
*PGM	P69COOKC	RPG	JDEFIXES		2013

TYPE	NAME	ATTR.	LIBRARY	DESCRIPTION	YEAR
*PGM	P79COOKC	RPG	JDEFIXES		2013
*PGM	P98CLOPTM	RPG	JDEFIXES	Benefit Accrual Roster more than 10 PDBA's	2013
*PGM	TRVLREIMBR	CLP	JDEFIXES	Create FMLA Cook County BUREAU Of Public Service	2013
*PGM	X060116	RPG	JDEFIXES	CUSTOM Update Employee Master c12	2013
*PGM	X06390	RPG	JDEFIXES	Calculate Rollover Balance	2013
*PGM	X06391	RPG	JDEFIXES	Calculate Rollover Bal	2013
*PGM	X0639PTM	RPG	JDEFIXES	Benefit Accrual Roster for J064501PTM	2013
*PGM	X08101	RPG	JDEFIXES	Projected at Year End Values Server - Limit Check	2013
*PGM	X081011	RPG	JDEFIXES	FIX0301 - PER% of Yr Position Occupied By Emp	2013
*PGM	X08102	RPG	JDEFIXES	FIX0301 - Position Budget Edit Server	2013
*PGM	X55ALPH	RPG	JDEFIXES	Parse YAALPH for Last, First Name & Initial -- JOR	2013
*PGM	X55LONG	RPG	JDEFIXES	Changed 07-13-2009 -- JOR (YADTSF : 109335)	2013
*PGM	XJ55JBENE	CLP	JDEFIXES		2013
*PGM	XJ55JBENES	CLP	JDEFIXES	To see job log.	2013
*PGM	XP55JBENE	RPG	JDEFIXES	Outputs XF55JBEN.	2013
*PGM	XP55JBENF	RPG	JDEFIXES	Jan. 23, 2009.	2013
*PGM	XP55JRPTS	RPG	JDEFIXES	Jan. 23, 2009.	2013
*PGM	XS0101	RPG	JDEFIXES		2013

This list represents known custom or modify files used in Cook County's JD Edwards World A73. These files are limited to files with no last used date. There are 8 files in the JDEFIXES library.

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*FILE	F55FIX18	PF	JDEFIXES	Upload positions FY00 - Budget2001	#VALUE!
*FILE	F55HLEMPL	PF	JDEFIXES	File Layout for Employee Master (Corporate)	#VALUE!
*FILE	F55HR335	PF	JDEFIXES	Tape Layout for Universal Life Census -- JOR	#VALUE!
*FILE	F55NA004	PF	JDEFIXES	output file from P55NA004 -- JOR	#VALUE!
*FILE	F55TDCL	PF	JDEFIXES	Record desc for SEIU73 expanded 12/09 (inc JobCode)	#VALUE!
*FILE	F55TPENY	PF	JDEFIXES	12-29-2010 modified -- JOR **********	#VALUE!
*FILE	F55TU46	PF	JDEFIXES	Record desc for SEIU73 expanded 12/09 (inc JobCode)	#VALUE!
*FILE	WF06116XXX	PF	JDEFIXES	Workfile - Timecard Upload ------- Limited Fields	#VALUE!

This list represents known custom or modify programs used in Cook County's JD Edwards World A73. These programs are limited to programs with no last used date. There are 494 programs in the JDEFIXES library.

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	A55VNDRPT	RPG	JDEFIXES	Vendor payment report file	#VALUE!
*PGM	ACCRUDMIS	CLP	JDEFIXES	Create Cook County MIS EMPL ACCRUED PPD	#VALUE!
*PGM	ACCRYALBPS	CLP	JDEFIXES	Create Cook County BUREAU Of Public Service	#VALUE!
*PGM	F04DDEPTRN	CLP	JDEFIXES	CUSTOM -- Transfer Direct Deposit to mainframe	#VALUE!
*PGM	F04PAYDATE	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	#VALUE!
*PGM	F04PAYTRN	CLP	JDEFIXES	CUSTOM -- Transfer CURR PAYROLL info to mainframe	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	F55116CMK5	CLP	JDEFIXES	Upload Timecards - CCCMK CLEAR WORKFILE	#VALUE!
*PGM	HBARCODE	CLP	JDEFIXES		#VALUE!
*PGM	J06116SBM	CLP	JDEFIXES		#VALUE!
*PGM	J068301	CLP	JDEFIXES	CUSTOM Generic Magnetic Media CL - REPORT c12	#VALUE!
*PGM	J550040OFH	CLP	JDEFIXES	Use SQL to delete from F0040 -- Menu MIS_04_OFH	#VALUE!
*PGM	J550116RSB	CLP	JDEFIXES	Batch Control Transferred Perm File	#VALUE!
*PGM	J550601	CLP	JDEFIXES	Employee Master - HR Initial Setup	#VALUE!
*PGM	J5506106	CLP	JDEFIXES		#VALUE!
*PGM	J5506116R	CLP	JDEFIXES	Batch Control Transferred to Temp File	#VALUE!
*PGM	J550613	CLP	JDEFIXES		#VALUE!
*PGM	J550613SB	CLP	JDEFIXES		#VALUE!
*PGM	J5508111A	CLP	JDEFIXES	Restatement of Activity Records	#VALUE!
*PGM	J55116AMB7	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	#VALUE!
*PGM	J55116AML4	CLP	JDEFIXES	Upload Timecards - AMB Cpyf, Clrpfm	#VALUE!
*PGM	J55116BOA2	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	#VALUE!
*PGM	J55116CCC5	CLP	JDEFIXES	Upload Timecards - Clear Work File	#VALUE!
*PGM	J55116CCH5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	#VALUE!
*PGM	J55116CCJ6	CLP	JDEFIXES	Upload Timecards CHFJG DPT#312	#VALUE!
*PGM	J55116CCJ7	CLP	JDEFIXES	Upload Timecards CHFJG STAGING ONLY	#VALUE!
*PGM	J55116CJ1	CLP	JDEFIXES	Clear f0040 CHFJG DPT#310	#VALUE!
*PGM	J55116CJ2	CLP	JDEFIXES	Clear Error file F0040 CHJDG1 DPT#280	#VALUE!
*PGM	J55116CJ4	CLP	JDEFIXES	Clear Error file F0040 CHJDG1 DPT#326,#538	#VALUE!
*PGM	J55116CJ5	CLP	JDEFIXES	'Clear Error file F0040 CHJDG1 DPT#305	#VALUE!
*PGM	J55116CJ6	CLP	JDEFIXES	'Clear Error file F0040 CHJDG1 DPT#312	#VALUE!
*PGM	J55116COM1	CLP	JDEFIXES	Upload Timecards - CCASSR CLEAR WORKFILE	#VALUE!
*PGM	J55116CPY	CLP	JDEFIXES	Retro Pay Upload Job	#VALUE!
*PGM	J55116CRE3	CLP	JDEFIXES	Upload Timecards - BOA Run WW, Clean-up F0040	#VALUE!
*PGM	J55116CRL4	CLP	JDEFIXES	Upload Timecards - CRE Cpyf, Clrpfm	#VALUE!
*PGM	J55116DOR4	CLP	JDEFIXES	Upload Timecards - DOR Cpyf, Clrpfm	#VALUE!
*PGM	J55116DOR5	CLP	JDEFIXES	Clear Work File WF06116DOR	#VALUE!
*PGM	J55116OFH1	CLP	JDEFIXES	Upload Timecards - OFH Cpyf, Clrpfm	#VALUE!
*PGM	J55116OFH6	CLP	JDEFIXES	Display and Clear Wrong Business Unit	#VALUE!
*PGM	J55116PRC5	CLP	JDEFIXES	Upload Timecards - CCPRC CLEAR WORKFILE	#VALUE!
*PGM	J55116ROD5	CLP	JDEFIXES	Upload Timecards - Clear Workfile	#VALUE!
*PGM	J55116SHE1	CLP	JDEFIXES	Upload Timecards - BOA Cpyf, Clrpfm	#VALUE!
*PGM	J55116STA2	CLP	JDEFIXES	Upload Timecards - STA Cpyf, Clrpfm	#VALUE!
*PGM	J553501P1	CLP	JDEFIXES	Changed to 16 day range for PP04	#VALUE!
*PGM	J553501V	CLP	JDEFIXES	SET TO 13 DAYS FOR FPD. PP01-26.	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J553501X	CLP	JDEFIXES	01-06-03, use date subroutine	#VALUE!
*PGM	J553501Y	CLP	JDEFIXES		#VALUE!
*PGM	J55AC01TRN	CLP	JDEFIXES	CUSTOM -- Transfer OFACRUAL using FTP	#VALUE!
*PGM	J55ACC01	CLP	JDEFIXES	CREATE OAK FORREST HOSP VAC + SICK ACCRUALS JOR	#VALUE!
*PGM	J55ACC03	CLP	JDEFIXES	12/20/00, O. F. VAC AND SICK ACCR USES DDS -- JOR	#VALUE!
*PGM	J55ACC03S	CLP	JDEFIXES	12-20-00, O. F. VAC. AND SICK ACCR USES DDS -- JOR	#VALUE!
*PGM	J55ACT01	CLP	JDEFIXES	FOREST PRESERVE pension actuary table -- JOR	#VALUE!
*PGM	J55ASC00	CLP	JDEFIXES		#VALUE!
*PGM	J55BEFPD	CLP	JDEFIXES		#VALUE!
*PGM	J55BEFPDY	CLP	JDEFIXES		#VALUE!
*PGM	J55BEMP	CLP	JDEFIXES	Update Employee New Benefit Enrollment File	#VALUE!
*PGM	J55BEMPL	CLP	JDEFIXES	Update F06106 DBA's for New Benefit Plan	#VALUE!
*PGM	J55BEMPP	CLP	JDEFIXES	Update F06106 DBA's for New Benefit Plan	#VALUE!
*PGM	J55BENQRYS	CLP	JDEFIXES	QRYSs to be run periodically to check benefits	#VALUE!
*PGM	J55BUSU200	CLP	JDEFIXES	Create Dept200 File	#VALUE!
*PGM	J55CHSUP	CLP	JDEFIXES		#VALUE!
*PGM	J55COCEMPF	CLP	JDEFIXES	Create Cook County CLERK Emp MastFile	#VALUE!
*PGM	J55COMP88	CLP	JDEFIXES	Compare - To Legacy, Universal Life Ded -- JOR	#VALUE!
*PGM	J55COMP89	CLP	JDEFIXES	COMPARE - Position f060116 to f08101 for FY	#VALUE!
*PGM	J55COMP91H	CLP	JDEFIXES	HIDEare - To Legacy step1, Fixed Life Ded -- JOR	#VALUE!
*PGM	J55COMP92H	CLP	JDEFIXES	HIDEare - To Legacy MARITAL STATUS	#VALUE!
*PGM	J55COMP93H	CLP	JDEFIXES	HIDEARE - TO legacy step3 rate,grd,stp,job,hmcu	#VALUE!
*PGM	J55COMP94H	CLP	JDEFIXES	HIDEARE - TO legacy step4 four dates -- JOR	#VALUE!
*PGM	J55COMP95H	CLP	JDEFIXES	HIDEARE - TO legacy step5 address, phone # -- JOR	#VALUE!
*PGM	J55COMP96H	CLP	JDEFIXES	HIDEARE - TO legacy step6 union code, rate -- JOR	#VALUE!
*PGM	J55COMP97H	CLP	JDEFIXES	HIDEARE - TO legacy step7 insurance plans -- JOR	#VALUE!
*PGM	J55COMP97T	CLP	JDEFIXES	test of J55Comp97 -- JOR	#VALUE!
*PGM	J55COMP98H	CLP	JDEFIXES	HIDEARE - TO legacy step8 Defferred Comp -- JOR	#VALUE!
*PGM	J55COMPCOR	CLP	JDEFIXES	Compares for COR	#VALUE!
*PGM	J55COMPHLT	CLP	JDEFIXES	Compares for HLT	#VALUE!
*PGM	J55CONVAMB	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	#VALUE!
*PGM	J55CONVCCH	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	#VALUE!
*PGM	J55CONVCH1	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	#VALUE!
*PGM	J55CONVCRE	CLP	JDEFIXES	Convert Legacy CCH Time Card to JDE Format - Job	#VALUE!
*PGM	J55CONVHLT	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	#VALUE!
*PGM	J55CONVPMC	CLP	JDEFIXES	Convert Legacy Time Card to JDE Format - Job	#VALUE!
*PGM	J55CUMUP	CLP	JDEFIXES		#VALUE!
*PGM	J55DATE3	CLP	JDEFIXES	Decrement or increment a date by number of months	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55DEPT040	CLP	JDEFIXES		#VALUE!
*PGM	J55DEPTXX0	CLP	JDEFIXES	Health Cost Report -- Overtime Summary by Employee	#VALUE!
*PGM	J55DFSMB	CLP	JDEFIXES	problem	#VALUE!
*PGM	J55DUPDBAS	CLP	JDEFIXES	Submit job to crrect duplicate DBA's inF06106	#VALUE!
*PGM	J55EARNS	CLP	JDEFIXES	create selective earnings (Overtime) report	#VALUE!
*PGM	J55EDITSPO	CLP	JDEFIXES	Edits/Fixes to be run periodically PO	#VALUE!
*PGM	J55EDSTR2T	CLP	JDEFIXES	Revenue Account Groups Summary Report	#VALUE!
*PGM	J55EDSTR3	CLP	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	#VALUE!
*PGM	J55EDSTR4	CLP	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	#VALUE!
*PGM	J55EECONV	CLP	JDEFIXES	File Clean-up for Master files and HRMS tables	#VALUE!
*PGM	J55ELG01	CLP	JDEFIXES	Eligibility report for Brian Goggin -- JOR	#VALUE!
*PGM	J55ELG02	CLP	JDEFIXES	Pension disk & report for Brian Goggin -- JOR	#VALUE!
*PGM	J55ELG03	CLP	JDEFIXES	Eligibility w grade 20+ for Brian Goggin -- JOR	#VALUE!
*PGM	J55EMPLFUR	CLP	JDEFIXES	Employee Furlough Report	#VALUE!
*PGM	J55EMPSHR	CLP	JDEFIXES		#VALUE!
*PGM	J55F0618SM	CLP	JDEFIXES		#VALUE!
*PGM	J55FIX136A	CLP	JDEFIXES	FIXES --- Combine tax records F06136L8 -- JOR	#VALUE!
*PGM	J55FIXA00	CLP	JDEFIXES		#VALUE!
*PGM	J55FIXASBM	CLP	JDEFIXES		#VALUE!
*PGM	J55FIXASBX	CLP	JDEFIXES		#VALUE!
*PGM	J55FIXSEQ	CLP	JDEFIXES	Update HPDL02 in F08101 -- JOR	#VALUE!
*PGM	J55FLXPF	CLP	JDEFIXES		#VALUE!
*PGM	J55FLXTRN1	CLP	JDEFIXES	Replaces J55FLXTRN, 03-21-2003 -- JOR	#VALUE!
*PGM	J55FLXTRNT	CLP	JDEFIXES	Test of J55FLXTRN -- JOR	#VALUE!
*PGM	J55FOINF	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	J55FPDP	CLP	JDEFIXES	Create File Layout for FPD Empl Pension	#VALUE!
*PGM	J55FPDPTRN	CLP	JDEFIXES	Transfer FPD PEN using FTP	#VALUE!
*PGM	J55FUND05	CLP	JDEFIXES	Show where gl fund does not match ap fund -- JOR	#VALUE!
*PGM	J55FUNDTN5	CLP	JDEFIXES	CUSTOM -- Transfer FUND ERRORS using FTP	#VALUE!
*PGM	J55GL04	CLP	JDEFIXES	Create - Contra Amounts from IT, ST, HI, OV	#VALUE!
*PGM	J55GL04SBM	CLP	JDEFIXES		#VALUE!
*PGM	J55HCR00	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	#VALUE!
*PGM	J55HCR01	CLP	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	#VALUE!
*PGM	J55HIGH01	CLP	JDEFIXES	Highways overtime report for Don Fronk -- JOR	#VALUE!
*PGM	J55HIST01	CLP	JDEFIXES	Do History Load to get Error reports by PP	#VALUE!
*PGM	J55HMODED	CLP	JDEFIXES	Non-union Employees Enrolled in HMO Medical Plan	#VALUE!
*PGM	J55HQEFST	CLP	JDEFIXES	Duplicated Effective Thru Dates(F08111)	#VALUE!
*PGM	J55HR330TP	CLP	JDEFIXES	CUSTOM -- Transfer Census using FTP	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55HYWEMPF	CLP	JDEFIXES	Create Cook County HYW EMP MAST FILE	#VALUE!
*PGM	J55JDE1	CLP	JDEFIXES	FPD Time Sheets Source	#VALUE!
*PGM	J55JMEEOJ	CLP	JDEFIXES		#VALUE!
*PGM	J55JOECOMB	CLP	JDEFIXES	MISPRT10 for ALL COMP93 COMP96 and COMP94	#VALUE!
*PGM	J55JOECORM	CLP	JDEFIXES	misprt10 for COR except COMP93, COMP96 and COMP94	#VALUE!
*PGM	J55JOEHLTM	CLP	JDEFIXES	misprt10 for HLT except COMP93 COMP96 and COMP94	#VALUE!
*PGM	J55JUD01	CLP	JDEFIXES	Judges - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	J55JUD02	CLP	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	J55JUD03	CLP	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	J55LFLX	CLP	JDEFIXES	Labels for people in flex program -- JOR	#VALUE!
*PGM	J55MASRT	CLP	JDEFIXES		#VALUE!
*PGM	J55MASSC	CLP	JDEFIXES		#VALUE!
*PGM	J55MVSRC3A	CLP	JDEFIXES	STEP 3A - Compile members from JDEXTST	#VALUE!
*PGM	J55MVSRC4A	CLP	JDEFIXES	Step 4 - Move from JDEFXTST to JDEFIXES	#VALUE!
*PGM	J55MVSRCS3	CLP	JDEFIXES	Step 2 - restore source to SRCHOLD for holding	#VALUE!
*PGM	J55NA001	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST SELECT ZIPCODE JOR	#VALUE!
*PGM	J55NA002	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST, ALL EMPLOYEES JOR	#VALUE!
*PGM	J55NA003	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FILE, NAMES SPLIT - JOR	#VALUE!
*PGM	J55NA004	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FLOPPY BY ZIPCODE - JOR	#VALUE!
*PGM	J55NA005	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A list BY ZIPCODE - JOR	#VALUE!
*PGM	J55NA006	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A FILE, all zips - JOR	#VALUE!
*PGM	J55NA007	CLP	JDEFIXES	Charity cards for FOREST PRESERVE -- JOR	#VALUE!
*PGM	J55NA008	CLP	JDEFIXES	Freedom of Information Reports for WGN -- JOR	#VALUE!
*PGM	J55NA009	CLP	JDEFIXES	List of FP employees by job code -- JOR	#VALUE!
*PGM	J55NA010	CLP	JDEFIXES	CREATE FOREST PRESERVE N/A LIST SELECT ZIPCODE JOR	#VALUE!
*PGM	J55NA011	CLP	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	#VALUE!
*PGM	J55NHR1	CLP	JDEFIXES	New-Hire Reporting (W4 File)	#VALUE!
*PGM	J55OAKF	CLP	JDEFIXES		#VALUE!
*PGM	J55OFHBUER	CLP	JDEFIXES	Create Cook County CLERK Emp MastFile	#VALUE!
*PGM	J55OFHERBU	CLP	JDEFIXES	'SUBMIT J55OFHBUER PHASE1Q	#VALUE!
*PGM	J55OPTOUT	CLP	JDEFIXES	Union Employees in WVRCTYSP Plan	#VALUE!
*PGM	J55OT001	CLP	JDEFIXES	10% and 25% overtime reports for Molis/Fronk - JOR	#VALUE!
*PGM	J55PAYDOWN	CLP	JDEFIXES	CUSTOM -- Create Extra Payroll Reports & downloads	#VALUE!
*PGM	J55PAYMON	CLP	JDEFIXES	CUSTOM -- Create Monthly Payroll Reports&Downloads	#VALUE!
*PGM	J55PAYRPT	CLP	JDEFIXES	REPORT only does not move to Downloads	#VALUE!
*PGM	J55PBDEF	CLP	JDEFIXES	Create Public Defender's Office Employee File	#VALUE!
*PGM	J55PBDEFR	CLP	JDEFIXES	Create Public Defender's Office Employee File	#VALUE!
*PGM	J55PFY01	CLP	JDEFIXES	Upload positions FY01 - Budget -- JOR&SH	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55PFY01F	CLP	JDEFIXES	FPD -- upload positions - Budget -- JOR	#VALUE!
*PGM	J55PFY04	CLP	JDEFIXES	Mid-Year Budget Revisions -- JOR	#VALUE!
*PGM	J55PHIST	CLP	JDEFIXES		#VALUE!
*PGM	J55PHISTSB	CLP	JDEFIXES		#VALUE!
*PGM	J55POS25	CLP	JDEFIXES	Update - Grade/Step in F08101 from F060116	#VALUE!
*PGM	J55POS31	CLP	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	#VALUE!
*PGM	J55POS31SM	CLP	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	#VALUE!
*PGM	J55POS32	CLP	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	#VALUE!
*PGM	J55POS32SM	CLP	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	#VALUE!
*PGM	J55POSB01	CLP	JDEFIXES	Update - Budget Prep 110 records for F081012	#VALUE!
*PGM	J55POSB02	CLP	JDEFIXES	Update - Budget Prep 110 records for F081012 del	#VALUE!
*PGM	J55POSB02S	CLP	JDEFIXES	Submit Update - Budget prep delete records	#VALUE!
*PGM	J55POSB04	CLP	JDEFIXES	Update - Salary Forecast date in F060116/F060118	#VALUE!
*PGM	J55POSN18S	CLP	JDEFIXES	Report - match for FPD -- JOR	#VALUE!
*PGM	J55POSN19S	CLP	JDEFIXES	Report - Negatives for FPD -- JOR	#VALUE!
*PGM	J55POSN20S	CLP	JDEFIXES	Report - positives for FPD -- JOR	#VALUE!
*PGM	J55POSQRYS	CLP	JDEFIXES	Edits to be run periodically Position Budgets	#VALUE!
*PGM	J55PPLGL1	CLP	JDEFIXES	Report Deductions for Pre-Paid Legal	#VALUE!
*PGM	J55PPLGL1S	CLP	JDEFIXES	Report Deductions for Pre-Paid Legal -- JOR	#VALUE!
*PGM	J55PPR01	CLP	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	#VALUE!
*PGM	J55PPR01SM	CLP	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	#VALUE!
*PGM	J55REBLD	CLP	JDEFIXES	Encumbrance exception report -- JOR	#VALUE!
*PGM	J55REDO02C	CLP	JDEFIXES	History Load Redo - pick up missing records SSN#	#VALUE!
*PGM	J55REDO02H	CLP	JDEFIXES	History Load Redo - pick up missing records SSN#	#VALUE!
*PGM	J55REDO33C	CLP	JDEFIXES	History Load Redo - missing additional taxes	#VALUE!
*PGM	J55RETRO01	CLP	JDEFIXES	Retro pay selection -- JOR	#VALUE!
*PGM	J55RM330	CLP	JDEFIXES	Universal Life Eligibility Tape -- JOR	#VALUE!
*PGM	J55RSPRODB	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	#VALUE!
*PGM	J55RSPRODP	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	#VALUE!
*PGM	J55RSTCOM	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	#VALUE!
*PGM	J55RSTSRC	CLP	JDEFIXES	Step 2 - restore source to SRCHOLD for holding	#VALUE!
*PGM	J55SEIUF	CLP	JDEFIXES	06-17-2010 modifications	#VALUE!
*PGM	J55SSNCOR	CLP	JDEFIXES	Run missing SSN for COR PP01 thru PP23	#VALUE!
*PGM	J55SSNHLT	CLP	JDEFIXES	Run missing SSN for COR PP01 thru PP23	#VALUE!
*PGM	J55SVFIXES	CLP	JDEFIXES	Save JDEFIXES librariy	#VALUE!
*PGM	J55SVPCOM	CLP	JDEFIXES	Save COMDTAPROD and COMSECPROD libraries	#VALUE!
*PGM	J55SVPRODB	CLP	JDEFIXES	Save PRODBDTA Libraries	#VALUE!
*PGM	J55SVPRODP	CLP	JDEFIXES	Save PRODPDTA Libraries	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55TBEN3	CLP	JDEFIXES	Insurance Cost Reports for Individual User -- JOR	#VALUE!
*PGM	J55TDEFLBT	CLP	JDEFIXES	Batch version of J553501C-Writes rept files to V:/	#VALUE!
*PGM	J55TDEFLO	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC	#VALUE!
*PGM	J55TDEFLOO	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	#VALUE!
*PGM	J55TDEFLOT	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	#VALUE!
*PGM	J55TDEFLTD	CLP	JDEFIXES	Use 3 libraries for J55DFSMBC, Write/FTP Rept File	#VALUE!
*PGM	J55TDNT	CLP	JDEFIXES		#VALUE!
*PGM	J55TESTQF1	CLP	JDEFIXES	Educational -- samples of OPNQRYF -- JOR	#VALUE!
*PGM	J55TESTSPL	CLP	JDEFIXES	Educational -- samples of CPYSPLF -- JOR	#VALUE!
*PGM	J55TFLX	CLP	JDEFIXES	Create tape Layout for Flexible benefits	#VALUE!
*PGM	J55TFLXGC	CLP	JDEFIXES		#VALUE!
*PGM	J55TFLXGS	CLP	JDEFIXES	FTP Flexible Spending to WageWorks -- JOR	#VALUE!
*PGM	J55TFLXT	CLP	JDEFIXES	To test J55TFLX, delete when done -- JOR	#VALUE!
*PGM	J55THIBTDD	CLP	JDEFIXES	Health insurance billings-Sorted by Dept-Old Empno	#VALUE!
*PGM	J55TIME01D	CLP	JDEFIXES	Report - Timecard Batch Detail & Totals	#VALUE!
*PGM	J55TIME03	CLP	JDEFIXES	Commented report put back in -- DG&JOR	#VALUE!
*PGM	J55TIME03S	CLP	JDEFIXES	Commented report put back in -- DG&JOR	#VALUE!
*PGM	J55TIME05	CLP	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	#VALUE!
*PGM	J55TIME05S	CLP	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	#VALUE!
*PGM	J55TIME90	CLP	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	#VALUE!
*PGM	J55TIME90S	CLP	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	#VALUE!
*PGM	J55TLFB	CLP	JDEFIXES	Create tape Layout for Basic Life Insurance	#VALUE!
*PGM	J55TLFBTD	CLP	JDEFIXES	Create tape Layout for Basic Life Insurance	#VALUE!
*PGM	J55TLFOTD	CLP	JDEFIXES	TDD-8/25/06-AETNA LOADS PP10-17 CPYF DOWNLOAD &FTP	#VALUE!
*PGM	J55TLFOTRN	CLP	JDEFIXES	Process for Aetna Optional Insurance.	#VALUE!
*PGM	J55TLIF	CLP	JDEFIXES	Obsolete, use J55TLIFL instead.	#VALUE!
*PGM	J55TLIFLBJ	CLP	JDEFIXES	TEST J55TLIFLB (07/26) AIG REPORT FILE TO PAYLIB#	#VALUE!
*PGM	J55TLIFLJ	CLP	JDEFIXES	TEST J55TLIFL (07/25) FOR REPORT FILE TO PAYLIB#	#VALUE!
*PGM	J55TPEN	CLP	JDEFIXES		#VALUE!
*PGM	J55TPEN15B	CLP	JDEFIXES	Like J55TPENL, but FTP (PROD BKP 5/27/10)	#VALUE!
*PGM	J55TPEN15T	CLP	JDEFIXES	Like J55TPENL, but FMLA UNPAID Test pgm.(5/27/10	#VALUE!
*PGM	J55TPENC	CLP	JDEFIXES	Create File Layout for Corprate Empl Pension	#VALUE!
*PGM	J55TPENF	CLP	JDEFIXES	Create File Layout for Corprate Empl Pension	#VALUE!
*PGM	J55TPENH	CLP	JDEFIXES	Create File Layout for Hospital Empl Pension	#VALUE!
*PGM	J55TPENLBT	CLP	JDEFIXES	PENSION REPORTING - BATCH PIRNT HOLD = *NO	#VALUE!
*PGM	J55TPENT	CLP	JDEFIXES		#VALUE!
*PGM	J55TPENY	CLP	JDEFIXES	06-17-2010 modifications	#VALUE!
*PGM	J55TPPO	CLP	JDEFIXES		#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55TPPOJ	CLP	JDEFIXES		#VALUE!
*PGM	J55TRVL360	CLP	JDEFIXES	Update Ers Using PDM CFMIS400	#VALUE!
*PGM	J55TUAF	CLP	JDEFIXES		#VALUE!
*PGM	J55TUNDT	CLP	JDEFIXES	Date, Day & Time of Report Run for P55TUNIC PGM	#VALUE!
*PGM	J55TUNHSAT	CLP	JDEFIXES	TDD-091106-Test-CPYF-mod-for-CCH House Staff Assoc	#VALUE!
*PGM	J55TUNIC	CLP	JDEFIXES	Create tape Layout for Union - AFSCME	#VALUE!
*PGM	J55TUNIO	CLP	JDEFIXES	Create tape Layout for Union - AFSCME	#VALUE!
*PGM	J55TUNSHA	CLP	JDEFIXES	CCH House Staff Assoc. Union Membership File	#VALUE!
*PGM	J55UN01	CLP	JDEFIXES	Update - Pay Grade Step Table by union	#VALUE!
*PGM	J55UN01SBM	CLP	JDEFIXES	Submit Update - Pay Grade Step Table by Union	#VALUE!
*PGM	J55UN02	CLP	JDEFIXES	Report - Union Dues	#VALUE!
*PGM	J55UNJB	CLP	JDEFIXES	Install PDBA 8110, PLAN PERS2 -- JOR	#VALUE!
*PGM	J55UNSM2B	CLP	JDEFIXES	Batch version of J55UNSM2 BATCH-PRINT Hold=*NO	#VALUE!
*PGM	J55UNSMM	CLP	JDEFIXES	Print Cook County Union Employees Summary **	#VALUE!
*PGM	J55UNSSM	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	#VALUE!
*PGM	J55UNSSMF	CLP	JDEFIXES	Print COPE Union Detail (PDBA 7031)	#VALUE!
*PGM	J55UNSSMFB	CLP	JDEFIXES	Batch version of J55UNSSMF -- JOR	#VALUE!
*PGM	J55UNSUM	CLP	JDEFIXES	modified Mar.9,2007 to include DBA 7019	#VALUE!
*PGM	J55UNSUMF	CLP	JDEFIXES		#VALUE!
*PGM	J55UPCCH	CLP	JDEFIXES	Reference to legacy empl# to fmis empl#	#VALUE!
*PGM	J55UPSHE	CLP	JDEFIXES	Sheriff's overtime upload -- JOR	#VALUE!
*PGM	J55VDSMB	CLP	JDEFIXES	problem	#VALUE!
*PGM	J55VEND3	CLP	JDEFIXES	CUSTOM -- Create Extra Payroll Reports & downloads	#VALUE!
*PGM	J55VEND3C2	CLP	JDEFIXES	Batch-New J55VEND3CB(08/01/06) AIG REPT FILE	#VALUE!
*PGM	J55VEND3CJ	CLP	JDEFIXES	New J55VEND3C(08/01/06) AIG REPT FILE TO DOWNLOAD	#VALUE!
*PGM	J55VEND3FJ	CLP	JDEFIXES	TEST J55VEND3F (07/26) AIG REPORT FILE TO DOWNLOAD	#VALUE!
*PGM	J55VEND3H	CLP	JDEFIXES	New J55VEND3H (08/01/06) AIG REPT FILE TO DOWNLOAD	#VALUE!
*PGM	J55VEND3HJ	CLP	JDEFIXES	TEST J55VEND3H (07/26) AIG REPORT FILE TO DOWNLOAD	#VALUE!
*PGM	J55VENDJCB	CLP	JDEFIXES	Batch-TEST J55VEND3CB(07/26) AIG REPORT FILE-TDD	#VALUE!
*PGM	J55VENDJFB	CLP	JDEFIXES	Batch-TEST J55VEND3FB(07/26) AIG REPORT FILE-TDD	#VALUE!
*PGM	J55VENDJHB	CLP	JDEFIXES	Batch-TEST J55VEND3HB(07/26) AIG REPORT FILE-TDD	#VALUE!
*PGM	J55VND03	CLP	JDEFIXES		#VALUE!
*PGM	J55VNDRPT	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	J55W2T0TRN	CLP	JDEFIXES	CUSTOM -- Transfer ANNUAL W2 TAPE using FTP -- JOR	#VALUE!
*PGM	J55WKCOMPX	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	#VALUE!
*PGM	J55WKCOMPY	CLP	JDEFIXES	Health Cost Report by Budgeted Account and B. U.	#VALUE!
*PGM	J55WRKCMP	CLP	JDEFIXES	Work man Comp Import File Creat	#VALUE!
*PGM	J55WRKCOMP	CLP	JDEFIXES	Creates Workman comp file	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	J55WWE01	CLP	JDEFIXES	WageWorks transit eligibility file	#VALUE!
*PGM	J55XCOR	CLP	JDEFIXES	Reference F060116 TO legacy	#VALUE!
*PGM	J55YAPHRT	CLP	JDEFIXES	FIXES --- Update YAPHRT from grade/step table	#VALUE!
*PGM	J560012	CLP	JDEFIXES	special testing AP Check Extract	#VALUE!
*PGM	J56FLXUP	CLP	JDEFIXES		#VALUE!
*PGM	J56FOINF	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	J56VNDRPT	CLP	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	J56W1099	CLP	JDEFIXES	Update Zip Code of F56W1099	#VALUE!
*PGM	J56XCOR	CLP	JDEFIXES	Reference F060116 TO legacy	#VALUE!
*PGM	J56XHFM	CLP	JDEFIXES	Reference F060116 TO legacy	#VALUE!
*PGM	J58AR11	CLP	JDEFIXES		#VALUE!
*PGM	J58AR15	CLP	JDEFIXES		#VALUE!
*PGM	J58AR18	CLP	JDEFIXES		#VALUE!
*PGM	J58AR9	CLP	JDEFIXES		#VALUE!
*PGM	J59BRCDE	CLP	JDEFIXES		#VALUE!
*PGM	J59BRCDF	CLP	JDEFIXES	Create F59brcde Barcode File	#VALUE!
*PGM	J59OAKFF	CLP	JDEFIXES		#VALUE!
*PGM	J59OAKFR	CLP	JDEFIXES		#VALUE!
*PGM	J69BRCDE	CLP	JDEFIXES	Create F69brcde File	#VALUE!
*PGM	J69OAKFR	CLP	JDEFIXES		#VALUE!
*PGM	J79OAKFR	CLP	JDEFIXES		#VALUE!
*PGM	J92BRCDE	CLP	JDEFIXES		#VALUE!
*PGM	J92BRCDESJ	CLP	JDEFIXES		#VALUE!
*PGM	P0618DBA	RPG	JDEFIXES	Furlough Reporting EE with Sal 85,000 +	#VALUE!
*PGM	P062013	RPG	JDEFIXES	Daily Benefit/Accrual Calculations	#VALUE!
*PGM	P062021MM	RPG	JDEFIXES	Pre-Payroll - Net Deduct & Benefit Calcs Plus Repo	#VALUE!
*PGM	P06231A	RPG	JDEFIXES	CUSTOM Report - Print Paychecks c12	#VALUE!
*PGM	P064501A	RPG	JDEFIXES	Benefit Accrual Roster	#VALUE!
*PGM	P065501TD	RPG	JDEFIXES	Auto Deposit File Creation	#VALUE!
*PGM	P06705	RPG	JDEFIXES	CUSTOM Final Update Control Report c12	#VALUE!
*PGM	P067702	RPG	JDEFIXES	Print W-2 Laser Forms (4 part)	#VALUE!
*PGM	P06OTOOLD	RPG	JDEFIXES	One-Time Override from a73pc00009	#VALUE!
*PGM	P0801OLD	RPG	JDEFIXES	CUSTOM Employee Master - HR Initial Setup WHMc12	#VALUE!
*PGM	P081820	RPG	JDEFIXES	FIX - Create Next Fiscal Years Position Budgets	#VALUE!
*PGM	P082810	RPG	JDEFIXES	CUSTOM Update Salary Actuals	#VALUE!
*PGM	P084H	RPG	JDEFIXES	CUSTOM Hire an Applicant Window c12	#VALUE!
*PGM	PS50601	RPG	JDEFIXES	Custom - Employee Master - w/ cook co customizati	#VALUE!
*PGM	P5506106	RPG	JDEFIXES		#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	P5506116R	RPG	JDEFIXES	Batch Control Transferred to Perm File	#VALUE!
*PGM	P5506SSN	RPG	JDEFIXES		#VALUE!
*PGM	P5508111A	RPG	JDEFIXES	Restatement of Activity Recordss	#VALUE!
*PGM	P5508111B	RPG	JDEFIXES	Update of Activity Records (F08111) for Retro's	#VALUE!
*PGM	P5508111C	RPG	JDEFIXES	Update F08111 Activity Records	#VALUE!
*PGM	P55607FEES	RPG	JDEFIXES		#VALUE!
*PGM	P55ACC01	RPG	JDEFIXES	FILE FOR OAK FORREST VACATION AND SICK ACCRUAL JOR	#VALUE!
*PGM	P55ACC03	RPG	JDEFIXES	12-20-00 O. F. VAC. AND SICK ACCR USES DDS -- JOR	#VALUE!
*PGM	P55ACC05P	RPG	JDEFIXES	Vacation and Sick Days Report	#VALUE!
*PGM	P55ACT01	RPG	JDEFIXES	Forest Preserve - pension actuary table fields JOR	#VALUE!
*PGM	P55ASC00	RPG	JDEFIXES		#VALUE!
*PGM	P55AUDQRY	RPG	JDEFIXES	Create Auditor Query Files	#VALUE!
*PGM	P55BEMP	RPG	JDEFIXES		#VALUE!
*PGM	P55BEMPL	RPG	JDEFIXES	Update F06106 with New DBA's for New Plans	#VALUE!
*PGM	P55BEMPP	RPG	JDEFIXES	Update F06106 with Termination of Old Plan DBA's	#VALUE!
*PGM	P55BEN01	RPG	JDEFIXES	Compare - Benefits (F08330) to DBA's (F06106)	#VALUE!
*PGM	P55BEN02	RPG	JDEFIXES	Compare - DBA'S (F06106) TO Benefits (F08330)	#VALUE!
*PGM	P55BENUP	RPG	JDEFIXES	Prcoess New BENEFITS For All Employees	#VALUE!
*PGM	P55BUSU200	RPG	JDEFIXES		#VALUE!
*PGM	P55CHSUP	RPG	JDEFIXES		#VALUE!
*PGM	P55CMPDTE	RPG	JDEFIXES		#VALUE!
*PGM	P55COMP89	RPG	JDEFIXES	Compare Positins F060116 to F08101 for a FY	#VALUE!
*PGM	P55COMP93	RPG	JDEFIXES	Compare - To Legacy step3 rate,grd,stp,job,hmcu	#VALUE!
*PGM	P55COMP94	RPG	JDEFIXES	Compare - To Legacy step4 4 dates -- JOR	#VALUE!
*PGM	P55COMP97	CBL	JDEFIXES	Compare - To Legacy step7 health dental vision JOR	#VALUE!
*PGM	P55COMP98	CBL	JDEFIXES	Compare - To Legacy step8 deferred comp -- JOR	#VALUE!
*PGM	P55COMPW2	RPG	JDEFIXES	Compare - Find errors in W2 reporting -- JOR	#VALUE!
*PGM	P55CONVCH1	RPG	JDEFIXES	Convert Legacy Time Card to JDE Format - Program	#VALUE!
*PGM	P55CONVHLT	RPG	JDEFIXES	Convert Legacy Time Card to JDE Format - Program	#VALUE!
*PGM	P55CUMBK	RPG	JDEFIXES		#VALUE!
*PGM	P55CUMUP	RPG	JDEFIXES		#VALUE!
*PGM	P55DATE1	RPG	JDEFIXES	Get period-end date from F069066 -- JOR	#VALUE!
*PGM	P55EARNS	RPG	JDEFIXES	Print FMIS PDBA Range Earning Report	#VALUE!
*PGM	P55EDSTR2T	RPG	JDEFIXES	Payroll Earnings and Deductions Summary Rep	#VALUE!
*PGM	P55EDSTR3	RPG	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	#VALUE!
*PGM	P55EDSTR4	RPG	JDEFIXES	Select employee history for Don Fronk, FPD -- JOR	#VALUE!
*PGM	P55EEOCM	RPG	JDEFIXES		#VALUE!
*PGM	P55ELG01	RPG	JDEFIXES	Eligibility report for Brian Goggin -- JOR	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	P55ELG02	RPG	JDEFIXES	Pension disk & report for Brian Goggin -- JOR	#VALUE!
*PGM	P55ELG03	RPG	JDEFIXES	Eligibility w grade 20+ for Brian Goggin -- JOR	#VALUE!
*PGM	P55EMSTRX	RPG	JDEFIXES	Create Employee Data Base From F060116	#VALUE!
*PGM	P55FIX0092	RPG	JDEFIXES	Fix address # in security file F0092 -- JOR	#VALUE!
*PGM	P55FIX0101	RPG	JDEFIXES	Fix space after comma in last name, f0101 -- JOR	#VALUE!
*PGM	P55FIX1062	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB file -- JOR	#VALUE!
*PGM	P55FIX136A	RPG	JDEFIXES	FIXES --- Combine tax records F06136L8 -- JOR	#VALUE!
*PGM	P55FIX166	RPG	JDEFIXES	FIXES --- F06166, ADD YTGPA TO YVG101 -- JOR	#VALUE!
*PGM	P55FIXA00	RPG	JDEFIXES		#VALUE!
*PGM	P55FIXLIF	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB, Life & UWay	#VALUE!
*PGM	P55FIXPEN	RPG	JDEFIXES	FIXES --- Fix dates in F06106LB, pension -- JOR	#VALUE!
*PGM	P55FIXSEQ	RPG	JDEFIXES	Update HPDL02 in F08101 -- JOR	#VALUE!
*PGM	P55FLXPF	RPG	JDEFIXES		#VALUE!
*PGM	P55FLXUP	RPG	JDEFIXES	Update Flex Spending Annual Amount	#VALUE!
*PGM	P55FOINF	RPG	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	P55FS218	CBL	JDEFIXES	Updt CORP Sal-Hist(F0618)Hrs/Rates by Blending Hrs	#VALUE!
*PGM	P55FUND05	CBL	JDEFIXES	Show discrepancies between GL and AP -- JOR	#VALUE!
*PGM	P55FX218	CBL	JDEFIXES	Update CORP Salary Hist(F0618)Hrs/Rates	#VALUE!
*PGM	P55GL04	RPG	JDEFIXES	Create - Contra Amounts from IT, I5, IR, some OV	#VALUE!
*PGM	P55GRANT	RPG	JDEFIXES	Create - Position Master Grant records	#VALUE!
*PGM	P55HCR01	RPG	JDEFIXES	Health Cost Report by Bydgeted Account and B. U.	#VALUE!
*PGM	P55HMODED	RPG	JDEFIXES	Non-union Employees Enrolled in HMO Medical Plan	#VALUE!
*PGM	P55HQEFST	RPG	JDEFIXES	Error report for duplicate Effective Thru Dates	#VALUE!
*PGM	P55IEE	RPG	JDEFIXES	CUSTOM -- Employee Master - HR Inquiry Only -- JOR	#VALUE!
*PGM	P55JBENE	RPG	JDEFIXES	Justice Benefits Quarterly Earnings andFringes	#VALUE!
*PGM	P55JMEEOJ	RPG	JDEFIXES		#VALUE!
*PGM	P55JRPTS	RPG	JDEFIXES	Health Cost Report - Overtime Summary by Employee	#VALUE!
*PGM	P55JUD01	RPG	JDEFIXES	Judges - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	P55JUD02	RPG	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	P55JUD03	RPG	JDEFIXES	Attorneys - N/A floppy -- for Lois Gold -- JOR	#VALUE!
*PGM	P55LFLX	RPG	JDEFIXES	Print flex labels from f060116k and f55tfxa -- JOR	#VALUE!
*PGM	P55MASSC	RPG	JDEFIXES		#VALUE!
*PGM	P55NA001	RPG	JDEFIXES	Forest Preserve - N/A listing -- selected zips JOR	#VALUE!
*PGM	P55NA002	RPG	JDEFIXES	Forest Preserve - N/A listing - pension floppy JOR	#VALUE!
*PGM	P55NA003	RPG	JDEFIXES	Forest Preserve - N/A floppy -- name unstring JOR	#VALUE!
*PGM	P55NA004	RPG	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	#VALUE!
*PGM	P55NA005	RPG	JDEFIXES	Forest Preserve - N/A list -- selected zips JOR	#VALUE!
*PGM	P55NA006	RPG	JDEFIXES	Forest Preserve - N/A disk -- NO ZIP TEST -- JOR	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	P55NA007	RPG	JDEFIXES	Charity cards for Forest Preserve -- JOR	#VALUE!
*PGM	P55NA008	RPG	JDEFIXES	Freedom of Information Reports for WGN -- JOR	#VALUE!
*PGM	P55NA009	RPG	JDEFIXES	List of FP employees by job code -- JOR	#VALUE!
*PGM	P55NA010	RPG	JDEFIXES	Forest Preserve - N/A listing -- selected zips JOR	#VALUE!
*PGM	P55NA011	RPG	JDEFIXES	Forest Preserve - N/A floppy -- selected zips JOR	#VALUE!
*PGM	P55NHR1	RPG	JDEFIXES	New-Hire Reporting (W4 File) for Joan Quirke	#VALUE!
*PGM	P55NON110	RPG	JDEFIXES	FIXES --- Update hours for non-110	#VALUE!
*PGM	P55OAKF	RPG	JDEFIXES	Create Employee Data Base From F060116	#VALUE!
*PGM	P55OPTOUT	RPG	JDEFIXES	Union Employees in WVRCTYSP Plan	#VALUE!
*PGM	P55OT001	RPG	JDEFIXES	10% and 25% overtime reports for Molis/Fronk - JOR	#VALUE!
*PGM	P55PBDEF	RPG	JDEFIXES	Create Employee Data Base	#VALUE!
*PGM	P55PFY00	RPG	JDEFIXES	Create - Position Master FY00 records	#VALUE!
*PGM	P55PFY01	RPG	JDEFIXES	New Fiscal Year Budget -- JOR	#VALUE!
*PGM	P55PFY01F	RPG	JDEFIXES	FPD -- upload positions - Budget -- JOR	#VALUE!
*PGM	P55PFY04	RPG	JDEFIXES	Mid-Year Budget Revisions -- JOR	#VALUE!
*PGM	P55PHIST	RPG	JDEFIXES		#VALUE!
*PGM	P55PHYP0	RPG	JDEFIXES		#VALUE!
*PGM	P55POS25S2	RPG	JDEFIXES	Step 2 Update - PX04, desc in F08101	#VALUE!
*PGM	P55POS25S3	RPG	JDEFIXES	Step 3 Update - Step in F08101	#VALUE!
*PGM	P55POS31	RPG	JDEFIXES	Create F08101JJJJ for FPD new fiscal year -- JOR	#VALUE!
*PGM	P55POS32	RPG	JDEFIXES	Update the HPCURB and HPEFFB fields -- JOR	#VALUE!
*PGM	P55POSB01	RPG	JDEFIXES	Update - Budget Prep 110 records for F081012 add	#VALUE!
*PGM	P55POSB02	RPG	JDEFIXES	Update - Budget Prep 110 records for F081012 del	#VALUE!
*PGM	P55POSC1	RPG	JDEFIXES	Check - Position Master (Corporate)	#VALUE!
*PGM	P55POSC9	RPG	JDEFIXES	Check - Position Master - UPDATE AMTS IF EXIST	#VALUE!
*PGM	P55POSCG8	RPG	JDEFIXES	Update - Position Master (Corporate) G8 error	#VALUE!
*PGM	P55POSH1	RPG	JDEFIXES	Check - Position Master (Hospital)	#VALUE!
*PGM	P55POSH9	RPG	JDEFIXES	Check - Position Master - UPDATE AMTS IF EXIST	#VALUE!
*PGM	P55PPR01A	RPG	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	#VALUE!
*PGM	P55PPR01B	RPG	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	#VALUE!
*PGM	P55PPR01C	CBL	JDEFIXES	Payroll Pre-Processing Reports for Joan Quirke	#VALUE!
*PGM	P55PTM01	RPG	JDEFIXES	Part-Time Accrual Customization	#VALUE!
*PGM	P55PUDFS	RPG	JDEFIXES	Create Employee Data Base From F060116	#VALUE!
*PGM	P55REBLD	RPG	JDEFIXES	Encumbrance exception report -- JOR	#VALUE!
*PGM	P55RETRO	RPG	JDEFIXES	create workfile from legacy system info	#VALUE!
*PGM	P55RETRO01	RPG	JDEFIXES	Retro pay selection -- JOR	#VALUE!
*PGM	P55RM330	CBL	JDEFIXES	Universal Life Eligibility Tape -- JOR	#VALUE!
*PGM	P55RPT2001	RPG	JDEFIXES	Report - Pay Grade Step Table (most recent)	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	P55TABUP	RPG	JDEFIXES		#VALUE!
*PGM	P55TAL1	RPG	JDEFIXES	Taleo LUD5 file for Joan Quirke	#VALUE!
*PGM	P55TBEN3	RPG	JDEFIXES	Insurance Cost Reports for Individual User -- JOR	#VALUE!
*PGM	P55TCTL	RPG	JDEFIXES	Payroll Control	#VALUE!
*PGM	P55TDNT	RPG	JDEFIXES		#VALUE!
*PGM	P55TFLX	RPG	JDEFIXES	Create Tape Layout for Flexible Benefits	#VALUE!
*PGM	P55TFLXTRN	RPG	JDEFIXES	Flexible spending, Prepare FTP controls -- JOR	#VALUE!
*PGM	P55THIBTD	RPG	JDEFIXES	Health insurance billings -- TEST PP# - TD.7/17/07	#VALUE!
*PGM	P55TIME03	RPG	JDEFIXES	Commented report put back in -- DG&JOR	#VALUE!
*PGM	P55TIME05	RPG	JDEFIXES	Health Timecard Summary for Joan Quirke -- JOR	#VALUE!
*PGM	P55TIME90	RPG	JDEFIXES	Report - Print "Payroll Time Record" -- DG&JOR	#VALUE!
*PGM	P55TLFB	CBL	JDEFIXES	Create Tape Layout for Basic Life Ins	#VALUE!
*PGM	P55TLFBTD	CBL	JDEFIXES	Create Tape Layout for Basic Life Ins	#VALUE!
*PGM	P55TPENC	RPG	JDEFIXES	Create File Layout for Corporate Pension	#VALUE!
*PGM	P55TPENF	RPG	JDEFIXES	Create File Layout for Forest Pre Pension	#VALUE!
*PGM	P55TPENH	RPG	JDEFIXES	Create File Layout for Hospital Pension	#VALUE!
*PGM	P55TPPO	RPG	JDEFIXES		#VALUE!
*PGM	P55TPPOJ	RPG	JDEFIXES		#VALUE!
*PGM	P55TRNSF	RPG	JDEFIXES	Wageworks Transit Eligibility File	#VALUE!
*PGM	P55TSSNO	RPG	JDEFIXES		#VALUE!
*PGM	P55TUAFT	RPG	JDEFIXES		#VALUE!
*PGM	P55TUNIC	CBL	JDEFIXES	Tape & Report - Union Employees AFCME	#VALUE!
*PGM	P55TUNIO	RPG	JDEFIXES	Create Tape Layout for Union Employee Information	#VALUE!
*PGM	P55UN01	RPG	JDEFIXES	Update - Pay Grade Step Table	#VALUE!
*PGM	P55UNJB	RPG	JDEFIXES	Install PDBA 8110, PLAN PERS2 -- JOR	#VALUE!
*PGM	P55UNSM1B	RPG	JDEFIXES	Print Union Summary for Local 714 backup on 022007	#VALUE!
*PGM	P55UNSM3D	RPG	JDEFIXES	Print Union Summary, SEIU 73 and 20(TD and JOR)	#VALUE!
*PGM	P55UNSSM	RPG	JDEFIXES	Print Cook County Union Employees Summary	#VALUE!
*PGM	P55UNSUMPP	RPG	JDEFIXES	Print Cook County Union Employees Summary	#VALUE!
*PGM	P55UPDCU1	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	#VALUE!
*PGM	P55UPDCU2	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	#VALUE!
*PGM	P55UPDCU3	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	#VALUE!
*PGM	P55UPDCUA	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	#VALUE!
*PGM	P55UPSHE	RPG	JDEFIXES	Sheriff's overtime upload -- JOR	#VALUE!
*PGM	P55VNDRPT	RPG	JDEFIXES	Vendor Payment Report	#VALUE!
*PGM	P55VOIDS2H	RPG	JDEFIXES	Batch Void of checks using AN8, PP --- HLT	#VALUE!
*PGM	P55W1099	RPG	JDEFIXES	Update Zip Code of F04S15OW	#VALUE!
*PGM	P55WKCMP	RPG	JDEFIXES	Transfer Legacy Enrollment Data	#VALUE!

TYPE	NAME	ATTR	LIBRARY	DESCRIPTION	YEAR
*PGM	P55WWE01	RPG	JDEFIXES	WageWorks transit eligibility file	#VALUE!
*PGM	P55XCOR	RPG	JDEFIXES	Create Employee Master File For Legacy System	#VALUE!
*PGM	P55XHFM	RPG	JDEFIXES	Create Hosp Empl Mastr File For Legacy System	#VALUE!
*PGM	P55XINV	RPG	JDEFIXES	Process BENEFITS For All Employees	#VALUE!
*PGM	P55YAPHRT	RPG	JDEFIXES	FIXES --- Update YAPHRT to match grade/step table	#VALUE!
*PGM	P560012	RPG	JDEFIXES	Create check extract file (F560001) for funding re	#VALUE!
*PGM	P56FLXUP	RPG	JDEFIXES		#VALUE!
*PGM	P56FOINF	RPG	JDEFIXES	Create File Requested by Tribune Thru FOI	#VALUE!
*PGM	P56VNDRPT	RPG	JDEFIXES	Vendor Payment File Creation	#VALUE!
*PGM	P56W1099	RPG	JDEFIXES	Update Zip Code of F04515OW	#VALUE!
*PGM	P56XINV	RPG	JDEFIXES		#VALUE!
*PGM	P58AR18	RPG	JDEFIXES		#VALUE!
*PGM	P58AR7B	RPG	JDEFIXES	Moved from CCDEV 8/6/2012 -- JOR	#VALUE!
*PGM	P58BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	P59BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	P59OAKFR	RPG	JDEFIXES		#VALUE!
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*PGM	P79OAKFR	RPG	JDEFIXES		#VALUE!
*PGM	P89BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	P90BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	P92BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	P99BRCDE	RPG	JDEFIXES		#VALUE!
*PGM	REORG	CLP	JDEFIXES	CUSTOM -- Reorg files - pass in environment	#VALUE!
*PGM	RSTTEST	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	#VALUE!
*PGM	RSTTEST_SP	CLP	JDEFIXES	Restore CFMIS400 PROD to CFMIS400 TEST	#VALUE!
*PGM	SAVEJDF	CLP	JDEFIXES	Save JDF Pristine Libraries & JDEFIXES	#VALUE!
*PGM	SAVEPROD	CLP	JDEFIXES	Save Production Libraries and transfer to CCDEV400	#VALUE!
*PGM	SAVEPRODNO	CLP	JDEFIXES	Save Production Libraries, No transfer	#VALUE!
*PGM	WF06116PGM	RPG	JDEFIXES	Retro Pay Upload Program	#VALUE!
*PGM	X55UPDCU1	RPG	JDEFIXES	Update Credit Union Info with Total Check to CU	#VALUE!

Contingency Approach

Denovo will provide and develop a contingency plan that will enable Cook County to continue to process payroll on its legacy JDE World A73 system if the go-live extends beyond the first payroll run in January 2014. Cook County will provide ample notice of their intent to implement the contingency plan for a January delivery date. Denovo will be responsible to update/maintain changes to the payroll tax requirements within Cook County's JDE World solution until the JD Edwards EnterpriseOne cutover is completed.

The Contingency Plan approach is based on the best practices deployed in foreign countries to support withholding taxes. This approach sets up DBAs to withhold employee taxes and to accrue employer taxes. A conversion of the payroll tax history into the appropriate JD Edwards EnterpriseOne tables is in scope for this conversion plan. Denovo will develop, implement and support the contingency plan on a time and material basis.

Business Process Improvement

Pain Points

During Denovo's discovery sessions with key Cook County process owners, several key pain points with Cook County's JD Edwards World were identified. Several of these issues are addressed natively within JD Edwards EnterpriseOne. The following table summarizes the issues identified and will be worked on in the HR/Payroll Upgrade project.

Description of Upgrade Items	Scope of Effort	Development Complexity
Pain Points that will be solved using standard JD Edwards EnterpriseOne		
Termination Tracking – Enhanced tracking of termination reasons, using the Pay Status to identify the reason for the termination. Solution uses a single character alpha field.	This will be resolved by configuring the pay status field to have different termination codes to track termination reasons	None
Leave of Absence Tracking – Enhanced tracking of leave of absence reasons, using the Pay Status to identify the reason for the leave of absence. Solution uses a single character alpha field.	This will be resolved by configuring the pay status field to have different leave of absence codes to track leave of absence reasons	None
Ad hoc Reporting Tools – 3rd party reporting tools are available for both products. Several methods for ad hoc reporting included in JD Edwards EnterpriseOne.	This will be resolved by training the users on JD Edwards EnterpriseOne OneView reporting.	None
Leave of Absence Workflow – Workflow is available in JD Edwards EnterpriseOne along with a Global Leave Administration product.	This will be configured using standard JD Edwards EnterpriseOne objects and functionality available in the Global Leave Administration functionality.	None
Training – User training is desirable.	This will be handled during the Delivery stage of the Upgrade project.	None
Security Setup – Allow users access only to employees that they are authorized to change. This functionality will be reviewed during the configuration lab.	To be delivered using standard roles security functionality.	None
Employee Master Lock out – Cannot change the Employee Master record during the paycycle. In EnterpriseOne, the ability to make changes to the employee master during paycycle processing is standard.	This will be delivered using standard JD Edwards Paycycle functionality.	None

Description of Upgrade Items	Scope of Effort	Development Complexity
Effective Dates on DBA – This issue will be reviewed during the Configuration Lab, but, no customizations will be performed to resolve the issue.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client policy and procedures to address this issue.	None
Assignment Tracking – Problems with Assignments being added to the history table. Dependent on the steps taken to record the assignment.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client's users understanding. This issue will be resolved using standard JD Edwards functionality.	None
Leave of Absence – Global Leave Administration is available in EnterpriseOne and will replace the current custom solutions.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
W2 Processing – W2 processing is handled on the mainframe. This process will be transferred to JDE during the configuration lab.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
Employee Self-service – Services will be configured and rolled out as requirements dictate.	This will be delivered using standard JD Edwards EnterpriseOne functionality.	None
Pain Points that will be solved through development activity These pain points represent new development		
Check Printing – Check file needs to be edited prior to printing. In EnterpriseOne BI Publisher comes standard with the product and Forms development is included. Alternatives for Optio (including using the embedded BI Publisher) would need to be research to resolve current printing issues on the AS400.	The paycheck and the direct deposit advice will be handled using BI Publisher and will be distributed to the employees electronically and/or hard copy.	Simple
Time Exception - Time exception reporting that is system monitored.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided as the solution.	Simple
Restrict Pay Type Entry – When employee is on Worker's Compensation do not allow the employee to enter time using a pay type that will pay the employee.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided.	Simple

Description of Upgrade Items	Scope of Effort	Development Complexity
Activity Records – These records are not updated in a consistent manner. Most often the Leave of Absence (LOA) causes the most problems. The activity record should not expand beyond the dates for a fiscal year. Most often this occurs when an LOA of an employee spans more than one fiscal year. The record should have an ending date for the fiscal year, then a new record for the beginning of the next fiscal year. Activity record should only contain the changes to an employee during the fiscal year. From Dates and Through Dates should not overlap fiscal years.	Extensive testing and documentation of JD Edwards EnterpriseOne standard functionality will be performed to establish Client understanding. Development will only be provided if the solution can be handled using a simple batch program to split records in the table.	Simple
Position IDs – These are manually created and are not truly unique. These position ids are manually monitored in hopes of not creating duplicates. Currently, the unique id is maintained within the business unit, but not the whole organization. This has led to numerous duplicates in JDE for the whole organization.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide a Client solution. Development of a "detect" report will be provided.	Simple
Retro Pay – Currently this is a customized solution that is very manual and run on the mainframe. Improving the customization to better calculate the retro pay and including workflow to the process would improve the retro-pay a process.	Develop GAP analysis between the current custom Client solution and current JD Edwards EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution. Develop solution. The functional requirements are based on the technical specifications provided by Client.	Medium
Salary Schedules for the grade and step tables – Currently the table is made up of grade, step, union code, effective date and amount. The table should be made up of contract, grade, step, union, effective date and amount. The position should be attached to a contract which would govern the pay of an employee hired into the position. This would make the projection of salary easier. The contract could be updated and the salary for the position would be updated immediately.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution.	Medium

Description of Upgrade Items	Scope of Effort	Development Complexity
Union Code Architecture – would like the Union code redesigned to better fit the way Unions impact the employee setup. Functionality will be reviewed during the configuration, but, this functionality is most likely not available.	Develop GAP analysis between Client's requirements and current EnterpriseOne standard functionality. Establish configuration and customize requirements to provide Client solution.	Complex

Roles Based Security

A new role based security matrix will be implemented to provide users the appropriate level of access to JD Edwards EnterpriseOne. This security is standard JD Edwards EnterpriseOne functionality and will control:

- Access to Department and/or Fund records
- Ability to run sensitive batch jobs
- Ability to add, change or delete records through an application
- Ability to query of sensitive records from within the JD Edwards EnterpriseOne.

Additionally role based menus in the form of "E1 pages" will be developed to further restrict the users access to unnecessary and/or sensitive JD Edwards objects.

Role based security is an industry best practice for applying security to an ERP system like JD Edwards EnterpriseOne. As part of the process diagram exercise the project team will identify which roles exist for the process and which objects those roles will need to perform their job requirements. The security matrix for these roles are then configured in JD Edwards and assigned to individuals. The security matrix defines applications, batch jobs, organizations, i.e. funds, projects, departments, and menus to which the roles have access. It also restricts the kind of action they can perform from just inquiry to having the ability to delete or add records. Then the process owners will identify the users that will need to be assigned the roles. This ensures the users will have permission to perform only those actions that are essential to the completion of their jobs

New Functionality

As part of the business process improvement, new functionality will be introduced using standard JD Edwards EnterpriseOne functionality that previously was not available in the Cook County's JD Edwards World. This functionality is limited to:

- Global Leave Administration
- Employee/Manager Self-service
- BI Publisher
- Electronic Workflow
- OneView Reporting

Global Leave Administration

Global Leave Administration enables Cook County employees and managers, having access to JD Edwards EnterpriseOne, the ability initiate basic leave request. The types of activity that will be available are:

- View leave balances
- Request leave time
- Cancel or modify leave requests

- Submit FMLA requests and information

These features are limited to the current configuration of Paid Time-off tracking currently being utilized in Cook County's JD Edwards World.

Employee/Manager Self-service

Employee/Manager Self-service enables Cook County employee and managers, having access to JD Edwards EnterpriseOne, the ability to initiate basic Human Resources requests. The types of activity that will be available are:

- Name and address changes
- Emergency contacts
- Dependents and Beneficiaries
- Paid Time-off
- Requests for verification of employment
- Review employee profile information
- Enter W-4 information
- Enter auto deposit information
- Pay Stub History; including printing the check stub

From the Manager's workbench:

- Change employee status
- Assign delegates
- Setup information on new employees

The Employee/Manager Self-service has approvals and workflow routing embedded into the product, so process owners will be notified and can approve as desired by Cook County.

Specifically out of scope is online enrollment.

BI Publisher

BI Publisher provides an integrated form template tool that replaces other form products like Optio. Training is being provided to Cook County staff on how to use this new product.

Electronic Workflow

JD Edwards EnterpriseOne has an integrated workflow engine to support custom workflow requirements. Additionally, JD Edwards EnterpriseOne comes delivered with pre-configure workflow in Human Resources. Training is being provided to Cook County staff on how to use this new product.

OneView Reporting

OneView reporting is designed to provide the end user with an ad hoc reporting and dashboard solution. JD Edwards EnterpriseOne is delivery with pre-configure HR and Payroll OVR reports. The process users will be trained on how to uses this new product.

Unidentified Enhancements

In order to provide for enhancements not yet identified in the scope of services, Denovo has included a fixed amount of hours for an HCM Application consultant and a developer to perform these services. The services are anticipated to be conducted after the go-live and have been currently slotted between January and March of 2014. A list of potential enhancements will be developed throughout the HR/Payroll Upgrade project. This list will be evaluated and prioritized by the project team. Finally the project leadership team will determine which

enhancements will be implemented based on effort, importance to Cook County and available funding. The current funding amounts are outlined in the Schedule of Payments section of this document.

Additional Support

Cook County's JD Edwards World and OneWorld instances

Denovo will provide Cook County support for their current releases of JD Edwards World and OneWorld to assist in addressing on going production support while the new system is being implemented. Because Denovo's project team will become familiar with Cook County's current JD Edwards instances, they can provide functional, technical and development support to production problems. The project leadership team will develop procedures for handling support requests of Cook County's JD Edwards user community. The services will be provided separately on a time and materials basis.

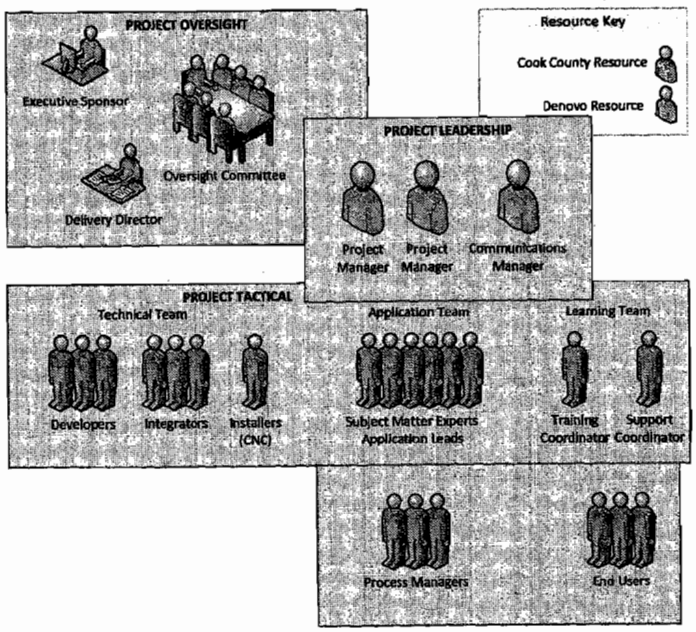
Supplemental Orders

Cook County may purchase additional quantities of a Service ("Supplemental Order") by adding additional services to the existing Statement of Work for those Services ("Existing Order") by submitting a Project Change Request (PCR) for those additional services. The Service Term of the Supplemental Order will be subject to the same terms and conditions as the Existing Order.

Project Resourcing

Overview

The following section outlines the approach and associated project plan to transition Cook County's current JD Edwards World Payroll, Time Accounting, and Human Resources solution to JD Edwards EnterpriseOne 9.1 operating on Denovo's Cloud. We will deploy using Denovo's proven standard Implementation Methodologies to ensure that we logically and systematically complete all of the necessary steps for a successful and risk-free project. A narrative of our methodologies has been included in *Exhibit A: Denovo Implementation Methodologies.*



Project Team Structure

The Transition Project team would be structured into three key groups; Project Oversight, Project Leadership and Project Tactical.

Project Oversight is responsible for assigning resources and support for the project. They are the ultimate authority over decisions associated with the project and can "bring to bear" any and all resources needed to make the project successful.

Project Leadership is responsible for the "day to day" administration and monitoring of the project. They provide strategic direction and daily monitoring of all activities which lead to the completion of project deliverables as well as administrative activities including monitoring budget, on-boarding project team resources, etc.

Project Tactical is responsible for the implementation of the system for the process areas they support. They will configure and test the system and generally be responsible that the software will support Cook County end-users.

Roles and Responsibility	
PROJECT OVERSIGHT TEAM	
Executive Sponsors	— **Able to oversee large projects** These individuals have ultimate authority over the Project, and are responsible for ensuring appropriate funding and resource commitment. The Executive Sponsors work with the Steering Committee and Project Managers to ensure that the project meets the company's Goals and Objectives.
Oversight Committee	— **Senior Level Executives** This cross-functional team of executives who have a vested interest in the benefits of the project. Their responsibilities are to: • Assure that the project has appropriate resources; • Promptly resolve major issues that arise during the course of the project, which cannot be resolved by project team; • Be the final escalation point for issues of significant risk and business impact that affect the project's delivery. This committee will review the project status on a regular basis, approving project deliverables, resources, and change management as necessary. The Steering Committee is responsible for promoting the project throughout the organization and ensuring that the project has adequate support, resources, and priority within the business and IT communities.
Delivery Director	This individual has ultimate responsibility over the Denovo team members on the project. The Denovo Director ensures that the methodology is being followed and project deliverables are being met in the appropriate time and of the appropriate quality. Responsibilities include: • Conducts periodic project health checks Conducts periodic team dynamic assessments
PROJECT LEADERSHIP TEAM	
Project Managers	— **Proven JD Edwards EnterpriseOne Project Manager** — **Proven IT Project Manager** The Project Managers will share overall responsibility for the day-to-day management of the project. The Project Managers will manage the expectations of the all parties by an effective communication plan. The Project Manager will develop all project management related deliverables and execute quality reviews. The Denovo Project Manager will also track action items and budgets, administer change request and issues, and keep the Executive Sponsors informed of progress, issues, and concerns. The Project Managers will develop and manage a project plan, will secure Cook County and Denovo resources to support the plan activities appropriately, and will assist Cook County project team by providing knowledge transfer of appropriate methodologies to support the objectives of the project. The Denovo Project Manager will manage the Denovo resources, and provide communication as appropriate to Cook County and Denovo's project participants.

	• Meet weekly to coordinate work effort and ERP design • Review, update and approve project plans; monitor project status • Guide, direct and support Cook County and Denovo project participants • Provide positive leadership to the implementation team; resolve resource issues • Keep team/department informed of implementation requirements • Resolve or direct the resolution of project issues • Manage functional system design issues across department lines • Facilitate organization acceptance and change management
Change Manager	— **Good Communication and execution skills** These individuals are the ambassadors to change. They are responsible for keeping Cook County informed and excited about the project team's successes. Their duties include: • Develop Communication Matrix • Manage the development of training materials • Develop training schedules • Identify training attendees • Participate in the Training sessions
EnterpriseOne Architect	— **Experience JD Edwards EnterpriseOne System Designer** These individuals are responsible for the overall design of development projects to ensure the way they are designed is consistent with JD Edwards EnterpriseOne and Denovo standards. Their duties include: • Reviewing functional specs • Reviewing testing results • Reviewing the quality of the all development documentation
Development Lead	— **Development mentor and task manager** These individuals are responsible to support the development team through the execution of all requirements defined on the RICE list. Their duties include: • Interface between the Leadership team and the Development team • Manage the daily activities of the Developers • Review Technical specs for design standards
PROJECT TACTICAL TEAM	
Solution Assurance	— **Senior Level Denovo Director** These individuals are responsible for independently evaluating the team dynamics and the project health during the life of the project. Responsibilities include: • Conducts periodic project health checks • Conducts periodic team dynamic assessments
JD Edwards EnterpriseOne Application	— **Process/Software expertise** These individuals have responsibility for the various activities in their functional area

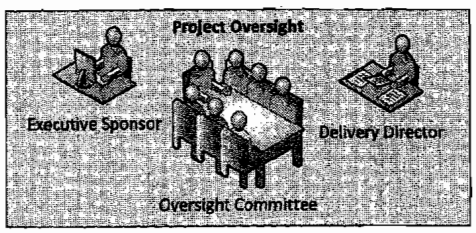
Professional	and execute the day-to-day aspects of the project. These Application Consultants are responsible for providing functional and application related knowledge required to configure, test and validate the working system. They will participate in formal reviews and keep the Project Leadership informed as to the progress and requirements of their functional areas during the project. Responsibilities include: • Coordinate business/functional design decisions and project activities with other team leads; • Identify issues for project management and assist in resolution process; • Redesign business processes to work in the new system as necessary • Perform application configuration and setup tasks for the User Acceptance Test and Production systems; • Provide JD Edwards EnterpriseOne expertise and transfer product knowledge throughout the project; • Identify and direct team members toward a successful resolution for technical and functional issues; • Ensure quality completeness and accuracy of deliverables; • Provide assistance to Project Team Members on how to document business processes, prepare detailed business procedures and user training documentation; • Coordinate and participate in the development of test cases for the User Acceptance Test; • Develop and provide "Train-the-Trainer" sessions to Project Team Members; • Participate in the Go Live cut-over process and provide Post Go Live support.
Cook County Process Team Leads	— **Cook County Process Decision Makers** Cook County Process Team Leads responsible for providing County process related knowledge to the project team to assist with configuration decisions and support. They also decide on issues of County process reengineering and leading practices that affect the operation. Responsibilities include: • Provide adequate County resources for the team to accomplish goals; • Provide guidance and direction on County processes and future state practices; • Assist in resolving process issues, change management, and change requests; • Elect to escalate issues to Steering Committee for resolution; • Review and approve software configuration, team deliverables, future state business process flows, data conversion results, custom programming and interface functional specifications, etc. • Participate in Acceptance Testing and accept final system for their respective Process Discipline.

Cook County Process Team Members	— **Knowledgeable Cook County Process User** Key users represent the functional user communities from which they have been assigned as Project Team Members. Their responsibilities will be both ERP software and functional process in nature, and will require them to have the knowledge and authority to participate in Cook County process analysis and redesign as appropriate. Cook County Process Team Members will, at various points in the project, have to provide feedback both to and from their user communities as questions or issues are raised requiring user input. Cook County Process Team Members will also become key site resources for end users, assisting in training and roll out of the application, as well acting as ongoing ERP resources within their local user community. Cook County Process Team Member duties include: • Develop and execute test cases for the User Acceptance Test; • Become an expert user of the ERP application for his/her functional area; • Update/develop end user documentation, like SOP's, Desk Procedures, etc. • Receive the "Train-the-Trainer" sessions from the Implement Team Leaders, and in turn train the end users in their designated area.

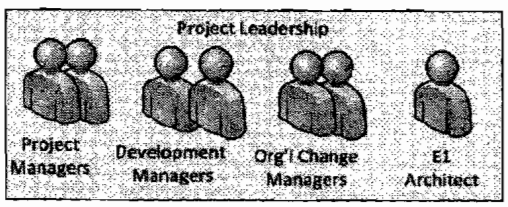
Project Organizational Chart

Project Oversight Team

Denovo is proposing a five member oversight team that would consist of one ERP CoE **Executive Sponsor**, one Denovo **Delivery Director** and a three member Cook County **Oversight Committee**. Although Denovo would prefer a three member Oversight Committee, Denovo would recommend that the committee not be larger than seven.



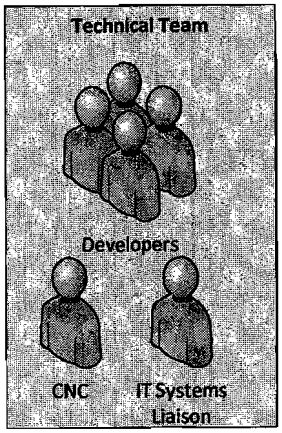
Project Leadership Team



Denovo is proposing a leadership team with seven members. It would consist of three **Project Managers**, one from Denovo and two from ERP CoE. Two part time **Organizational Change Managers** one from Denovo and one from ERP CoE. A Denovo **Development Manager** paired with an ERP CoE **Development Liaison**. The final member is a Denovo **JD Edwards EnterpriseOne Architect**.

Project Tactical Team

Development



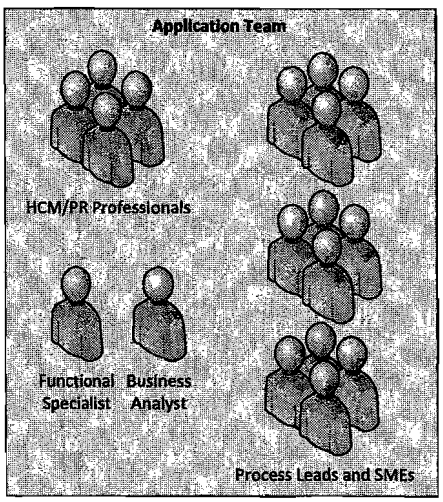
Denovo is proposing a development team that supports the demands of the development work on the project. The Denovo **Developers** will be augmented as the demands of the project rise and fall. It is currently anticipated to be from three to five Denovo resources at any given time until the Business Process Workshops.

Technology

Although the technology team will be assigned through the Denovo data center they will interact with the project team from time to time. The Denovo **CNC Professional** will need to coordinate with the ERP CoE **IT Systems Liaison** on migration tasks moving data from the Cook County data center to the Denovo data center; as well as, supporting the project team with development support activities, etc.

Application

Denovo is proposing an application team that consists of two teams. The first team will be tasked with the Health paycycle. They will be responsible for meeting the Health paycycle requirements of the HCM activities, the payroll activities, the position control activities, the time entry activities as well as the Forest Preserve paycycle and employee self-service. The second team will be tasked with the Corporate paycycle. They will be responsible for meeting the Corporate paycycle requirements of the HCM activities, the payroll activities, the position control activities, the time entry activities as well as all benefits administration and global leave administration.



Denovo will provide each team with two **HCM/PR Professionals**, the ERP CoE will provide one **Functional Specialist** and a **Business Analyst**, and Cook County will provide **Process Leads** and **Process Members** in the area of Employee Master Maintenance (HCM), Payroll, Benefits, Position Control, and Time Entry. See the resource planning schedule below for a breakdown of these resources.

Training

Denovo is proposing a training team that will consist of one Denovo trainer and one ERP CoE Trainer. This resource could be the Business Analyst from the application team. The team will be led by the Denovo Change Manager.

Denovo

Resource Time Requirements

ROLE	TITLE	HOURS	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
DENOVO														
DELIVERY DIRECTOR	DELIVERY DIRECTOR	240		20	40	40	40	40	40	20				
PROJECT MANAGER	PROJECT MANAGER	1,360	40	200	160	160	200	160	200	160	80			
ENTERPRISEONE ARCHITECT	ENTERPRISEONE ARCHITECT	970		200	160	160	200	160	90					
APPLICATION PROFESSIONAL	HCM PROFESIONAL I	1,420		200	160	160	200	160	200	160	150	30		
APPLICATION PROFESSIONAL	HCM PROFESIONAL II	960		120	160	160	200	160	160					
APPLICATION PROFESSIONAL	PR PROFESSIONAL I	1,420		200	160	160	200	160	200	160	150	30		
APPLICATION PROFESSIONAL	PR PROFESSIONAL II	960		120	160	160	200	160	160					
DEVELOPMENT LEAD	DEVELOPMENT MANAGER	720			160	160	200	160	40					
DEVELOPER	DEVELOPER I	640			80	160	200	160	40					
DEVELOPER	DEVELOPER II	640			80	160	200	160	40					
DEVELOPER	DEVELOPER III	640			80	160	200	160	40					
DEVELOPER	DEVELOPER IV	640			80	160	200	160	40					
DEVELOPER	DEVELOPER V	640			80	160	200	160	40					
CNC PROFESSIONAL	CNC PROFESSIONAL	800		40	100	120	150	120	170	100				
CHANGE MANAGER	CHANGE MANAGER	680	40	140	80	80	100	80	100	60				
APPLICATION PROFESSIONAL	ENTERPRISEONE TRAINER	400		120	80				160	40				
APPLICATION PROFESSIONAL	HCM PAYROLL PROFESSIONAL Phase 2	520										160	160	200
DEVELOPER	DEVELOPER IV - Phase 2	520										160	160	200

Denovo

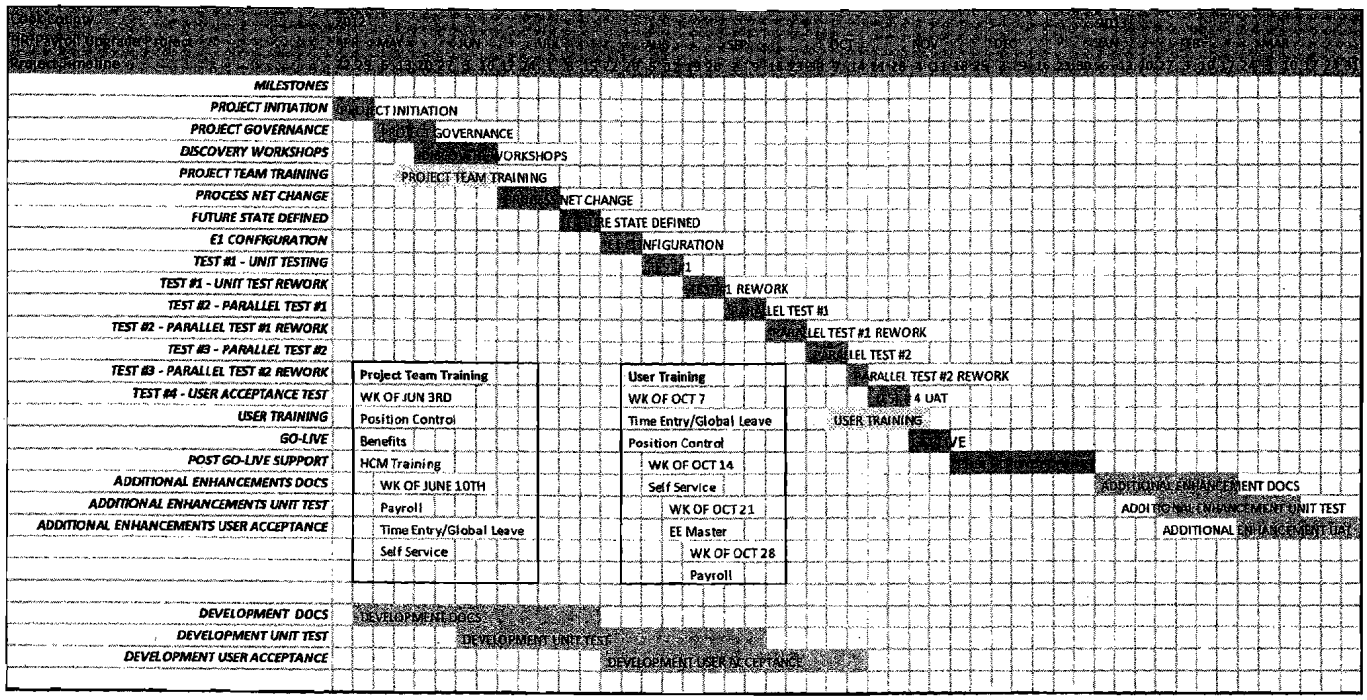
ROLE	TITLE	HOURS	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
ERP CENTER OF EXCELLENCE														
PROCESS TEAM LEAD	FUNCTIONAL SPECIALIST	740	20	100	80	80	100	80	100	80	80	20		
DEVELOPMENT LIASON	TECHNICAL LEAD	740	20	100	80	80	100	80	100	80	80	20		
PROJECT MANAGER	PROJECT MANAGER I	740	20	100	80	80	100	80	100	80	80	20		
PROJECT MANAGER	PROJECT MANAGER II	740	20	100	80	80	100	80	100	80	80	20		
CHANGE MANAGER	CHANGE MANAGER	740	20	100	80	80	100	80	100	80	80	20		
COOK COUNTY														
OVERSIGHT COMMITTEE	OVERSIGHT COMMITTEE													
PROCESS TEAM LEAD	HCM LEAD - HEALTH PAYCYCLE	345	2	14	36	26	50	70	107	40				
PROCESS TEAM LEAD	PAYROLL LEAD - HEALTH PAYCYCLE	345	2	14	36	26	50	70	95	52				
PROCESS TEAM LEAD	HCM LEAD - CORPORATE PAYCYCLE	345	2	14	36	26	50	70	107	40				
PROCESS TEAM LEAD	POSITION CONTROL LEAD	339	2	14	34	26	50	70	103	40				
PROCESS TEAM LEAD	PAYROLL LEAD - CORPORATE PAYCYCLE	345	2	14	36	26	50	70	95	52				
PROCESS TEAM LEAD	TIME ENTRY LEAD 1 - CORPORATE PAYCYCLE	333	2	14	28	26	50	70	103	40				
PROCESS TEAM LEAD	TIME ENTRY LEAD 2 - CORPORATE PAYCYCLE	333	2	14	28	26	50	70	103	40				
PROCESS TEAM LEAD	BENEFITS LEAD	331	2	14	34	26	50	70	95	40				
PROCESS TEAM MEMBER	FIELD HCM/ TIME ENTRY SME - HEALTH PAYCYCLE	88	2	22	36	16			12					
PROCESS TEAM MEMBER	FIELD HCM/ TIME ENTRY SME - CORPORATE PAYCYCLE	88	2	22	36	16			12					
PROCESS TEAM LEAD	HCM/PR/TIME ENTRY - FOREST PRESERVE PAYCYCLE	351	2	22	46	26	50	70	95	40				

Project Time Line

The project is expected to start on April 22, 2013 and be completed by March 31, 2014; with the go-live that will correspond to the November 3rd pay period. After the go-live there will be on-site support through December 31, 2013. In January, any unidentified enhancements that were identified during the upgrade will be worked on and completed by March 31, 2014.

Milestones

Below is a graphical representation of the major milestones associated with the professional consulting services and when they will be worked.



The following schedule provides a summary, by methodology stage, of the milestones and their associated tasks and deliverables. When closing the milestone their associated deliverables will be provided as evidence of completion.

It is important to the success of the HR/Payroll Upgrade project that the requested participation of Cook County's project and process lead resources occurs on a timely basis and at the level requested. Review and approval of project deliverables and other key decisions, including process change, will be completed within five (5) business day. Staying on track is important as review and approval delays may result in schedule delays and cost escalation. When a response is not received from Cook County by the due date, regarding review and approval of deliverables, that deliverable will be assumed to be approved.

Ref #	Milestone	Tasks	Deliverables
PROJECT INITIATION STAGE			
1	Project Initiation	Conduct Project Team Introduction Workshop	• Introduction Workshop Completed
		Develop Project Charter/Stakeholder Management	• Approved Project Charter • Stakeholder Register • Approved Stakeholder Management Strategy
PROJECT PLANNING & EXECUTION STAGE			
2	Project Governance	Develop Project Management Plan (PMP)	• Approved Project Management Plan
		Develop Project Plan	• Finalized Project Scope in PMP • Detailed Project Plan • Project Resource Assignments • Project Duration Overview • Detailed Project Calendar
		Develop Milestone Tracking	• Milestone Tracking Schedule
		Develop Risk Management Policy	• Approved Risk Assessment Plan
		Develop Communication Plan	• Approved Communications Plan
		Develop SharePoint Site	• Project's SharePoint Site Developed
		Conduct Project Preparedness Check Point	• Project Preparedness Check Point Results
		Conduct Kick-off Meeting	• Kick-off Meeting Completed
DEFINITION STAGE			
3	Discovery Workshops	Conduct Discovery Workshops	• Discovery Workshops Completed • Draft Requirements Traceability Matrix • Draft Future State Process Diagrams
5	Current State Review	Conduct Current State Requirements Lab	• Draft Go-live Validation Check List • Initial RICE List • Draft System Design Requirements
6	Future State Defined	Conduct Requirements Gap Sessions	• Approved Requirements Gap • Approved System Design Requirements

Ref #	Milestone	Tasks	Deliverables
CONFIGURATION STAGE			
7	E1 Configuration	Conduct Configuration Labs	• Draft Menu/Security Requirements • PY Environment Ready for Test • Updated System Design Requirements
8	Test #1 - Unit Testing	Develop Configuration Test Scripts	• Initial Test Scripts version 1
		Execute Test 1 - Configuration Testing	• Executed Configuration Test Scripts Results
9	Test # 1 - Unit Testing Rework	Conduct Test 1 - Configuration Test Rework Lab	• Updated Test Scripts version 2
10	Test #2 Parallel Test A	Execute Test 2 - Parallel Testing A	• Executed Parallel Testing A Results
11	Test #2 Parallel Test A Rework	Conduct Test 2 - Parallel Testing A Rework Lab	• Updated Test Scripts version 3
12	Test #3 Parallel Test B	Execute Test 3 - Parallel Testing B	• Executed Parallel B Testing Results
13	Test #3 Parallel Test B Rework	Conduct Test 3 - Parallel Testing B Rework Lab	• Updated Test Scripts version 4
14	Test #4 User Acceptance Testing	Execute Test 4 - Conduct Business Process Workshop	• Executed BPW Test Results
14	Test #4 User Acceptance Testing	Execute Test 4 - Conduct Business Process Workshop	• Approved Go-live Validation Check List
DELIVERY STAGE			
16	Go-Live	Conduct Production Test Review	• Cut-over Scripts
		Execute Production Installation Plan	• Production Environment Available
		Execute Production Test Validation	• Go-live Validation Check List Results
		Conduct System Readiness Assessment	• Readiness Assessment Results
		Execute PD Business Data Restore	• EnterpriseOne Live
17	Post Go-Live Support	Post Go Live Support and Issue Resolution	• Post Go-Live Issues List
REFINEMENT STAGE			
21	Enhancement Docs	Develop Enhancement Docs	• Configuration/Functional/Technical Specifications
22	Enhancement Completed	Execute Configuration and/or Coding and Unit Testing	• Unit Test Results (Passing)
23	Enhancement UAT	Execute Functional Consulting Testing	• Functional Test Results (Passing)
23	Enhancement UAT	Execute Process Lead Testing	• User Acceptance Test Results (Passing)

Ref #	Milestone	Tasks	Deliverables
LEARNING STAGE			
4	Project Team Training	Prepare Pre-training Activity	• Training Agenda, Schedule, Attendees Listing • Course Materials
		Conduct Project Team Training	• Course Sign-in Sheet
15	User Training	Prepare Pre-training Activity	• Training Agenda, Schedule, Attendees Listing
		Conduct User Training Courses	• Course Sign-in Sheet
DEVELOPMENT STAGE			
18	Development Docs	Develop Development Docs	• Functional/Technical Specifications
19	Development Complete	Execute Coding and Unit Testing	• Developer Test Results (Passing)
20	Development UAT	Execute Functional Consulting Testing	• Functional Test Results (Passing)
		Process Lead Testing	• User Acceptance Test Results (Passing)

Responsibility Matrix

The participation of key Cook County stakeholders is critical to the success of the project. The following table outlines responsibilities of Denovo and Cook County in the execution of the project plan:

Task	Responsibility
Project Management Segment – Project Initiation Stage	
Project Team Introduction Workshop – Introductory meeting for the project team to get together for the first time. Roles and Responsibilities will be discussed along with an outline of project tasks that will occur between the Introduction workshop and the Kick-off meeting.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Charter/Stakeholder Management – Review the current Project Charter and Stakeholder Management plan. When these documents do not already exist they will be prepared.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Project Planning & Execution Stage	
Develop Project Management Plan (PMP) – A PMP handbook will be created which will outline project policies. I.e. Change Management Policy, Software Development Lifecycle Policy, Milestone Tracking Plan and more.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Detailed Project Plan – Project scope will be finalized and the tasks (WBS) will be defined. The activities will be assigned, the project calendar will be created, resources identified, etc.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

Task	Responsibility
Develop Milestone Tracking Plan – The initial project tracking documents and procedures will be created for monitoring progress on the project and requesting payment for completed milestones.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Risk Management Policy – The Risk Management Plan is defined and the tracking mechanism is settled on.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop Communication Plan – The Communication Plan is complete along with the Communication Matrix. Project templates are settled on.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Develop SharePoint Site – A SharePoint site is created either on Denovo's or Cook County's site. Training materials are prepared and the project team is given access.	Denovo will complete this task..
Kick-off Project – Once the project planning is complete, a Kick-off Meeting PowerPoint is prepared and the project is officially started.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Monitor & Control Stage	
PM Recurring Activities – Standard project monitoring activities occur, need to report progress on the project, costs, issues, risk, etc.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Quality Stage	
Project Preparedness Check Point – Just prior to the Kick-off Meeting a Project Preparedness check Point will be conducted to validate the project is ready to start.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Progress Check Point – Periodic Check Points occur during the project to ensure the project is moving along as planned.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Management Segment – Close Stage	
Closing Activities – Standard closing activities will occur at the end of each stage and after the project as gone live. Items such as, documentation, appropriate sign-offs and lessons learned activity will be conducted.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Definition Stage	
Discovery Workshops – Review current state with County staff and prepare Requirements Traceability Matrix	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Current State Requirements Lab – Review Requirements Traceability Matrix. Prepare RICE List and Production Validation Check List.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Requirements GAP Sessions – Review Current State Analysis packet, which include Requirements Traceability Matrix, RICE List and Production Validation Check List. Document identified gaps in the requirements and present to the Cook County project team.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

Task	Responsibility
System Design Requirements Sessions – Review Current State Analysis packet and Gap Analysis. Conduct a Future State Design lab and prepare the System Design Requirements materials. Conduct a System Design Requirements session to Cook County project team.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Configuration Stage	
Configuration Lab – Review System Design Requirements and conduct a Configuration lab. New functionality will include employee self-service, online enrollment, and global leave administration. Additionally, define menu and security system requirements.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test Scripts – Review system design requirements documentation, identify all objects to be tested and prepare unit test scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test – Conduct unit testing and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Configuration Test Rework Lab – Rework configuration based on results of the configuration test. Prepare stress and parallel test scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Stress Test – Conduct stress testing and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Stress Test Rework Lab – Rework configuration based on results of the Integrated/stress test results. Update project documentation and prepare Business process workshop test scripts	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Parallel Test – Conduct parallel testing and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Parallel Test Rework Lab – Rework configuration based on results of the Parallel test results. Update project documentation and prepare business process workshop test scripts	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Business Process Workshop – Conduct business process workshop and update project documentation with test results.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Implementation Segment – Delivery Stage	
Production Test Review – Review all the project materials and evaluate how prepared the team is to begin developing the PD environment. Create cut-over scripts.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Production Installation Plan – Test the cut-over script and the creation of the PD Environment.	Denovo will complete theis task.
Production Test Validation – Review the results of the cut-over testing.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
System Readiness – Review the results of the Production Test Validation and make a go/no-go decision.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
PD Business Data Restore – Refresh the PD database with the current production data.	Denovo will complete this task.

Tasks	Responsibility
PD Environment Validation – Execute the Production Validation Checklists	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Post Go-live support	Denovo and County Project Team Members
Technology Segment – Definition Stage	
Infrastructure Design Lab (Hosted) – A lab that documents the future state of the IT hardware.	Denovo will complete this task.
IT Policies Design Lab (Hosted) – A lab that documents IT policies under a hosted environment. This includes security and menu structure.	Denovo will complete this task.
Technical Requirements Workshops – Workshop to review the functional specs for development work, i.e. Applications, Reports, Integrations, and Workflows.	Denovo will complete this task.
Technology Segment – Installation Stage	
Pre-installation Activities – Hardware acquisition, setup, configuration and tuning; setup at the Operating System, database, virtual machine level.	Denovo will complete this task.
Build Development and Prototype Environments – Technical - Install E1 v9.1 and related server roles (e.g. OAS); build environments; convert production data from JD Edwards World A7.3 to JD Edwards EnterpriseOne 9.1.	Denovo will complete this task.
Post PY Installation Activities – On-going support of project CNC activities, including: installation of ESU's, building packages, promoting of objects, etc.	Denovo will complete this task.
Technology Segment – Development Stage	
Development Labs – Retrofit Custom Application, Reports, Interfaces, Forms and Workflows.	Denovo will complete this task.
Learning Segment	
Pre-training Activity – Prepare training environment, training materials, and schedule training sessions.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.
Project Team Training – Conduct training session of Cook County's project team members. Training includes E1 navigation, employee maintenance, benefits administration, employee self-service, global leave management, payroll processing, time entry and HCM setup. Also included is training on system administration in a hosted environment.	Denovo will complete this task.
User Training – User training will be delivered by Cook County project leads. Denovo will sit through the first couple of training sessions to evaluate the effectiveness of the training the session. Training includes E1 navigation, employee maintenance, benefits administration, employee self-service, online enrollment, global leave management, payroll processing, and time entry.	Denovo is responsible for completing this task. Completion of this task requires the Client's reasonable assistance.

Tasks and Activities

The following table outlines the key tasks and activities required to complete the project:

PROJECT MANAGEMENT SEGMENT

PROJECT INITIATION STAGE

Project Team Introduction Workshop

Conduct Planning Meeting for Intro Workshop with County PM

Identify Meeting Attendees

Schedule Meeting for 1st day on site

Prepare Meeting Agenda and PPT

Conduct Introduction Meeting

Deliverable: Introduction Workshop Complete

Project Charter/Stakeholder Management

Review Historical Project Chartering Activities

Identify Business Case

Identify Stakeholders

Conduct a Project Initiation Workshop

Define Preliminary Project Scope

Develop Project Charter

Develop Stakeholder Management Strategy

Gain COUNTY Approval

Deliverable: Approved Project Charter

Deliverable: Stakeholder Register

Deliverable: Approved Stakeholder Management Strategy

PROJECT PLANNING & EXECUTION STAGE

Develop Project Management Plan (PMP)

Review Project Charter

Review Preliminary Project Scope

Prepare Project Policies and Procedures

Develop Milestone Tracking Plan

Develop Communication Plan

Develop Documentation Standards

Develop Issue Tracking Policy

Develop Change Control Policy

Deliverable: Approved Project Management Plan

Develop Project Plan

Collect Requirements

Finalize Project Scope

Update Project Management Plan

Identify Tasks

Define Activities

Prepare Detail Project Plan Document

Estimate Resources

Prepare Project Resource Assignments

Estimate Duration

Prepare Project Duration Overview

Develop Project Schedule

Prepare Detailed Project Calendar

Deliverable: Finalized Project Scope in PMP

Deliverable: Detailed Project Plan

Deliverable: Project Resource Assignments

Deliverable: Project Duration Overview

Deliverable: Detailed Project Calendar

Develop Milestone Tracking Plan

Review Project Contract

Identify Milestone Deliverables on the Detailed Project Plan

Prepare the Project Milestone Tracking Schedule

Deliverable: Project Milestone Tracking

Develop Risk Management Policy

Review PMP

Review Detail Project Plan

Review Project Resource Assignments

Review Detailed Project Calendar

Develop Risk Management Plan

Define Risk Tracking Approach

Gain Approval on Risk Management Plan

Deliverable: Approved Risk Assessment Plan

Develop Communication Plan

Review Stakeholder Register
Review Stakeholder Management Strategy
Develop Communication Plan
Develop Communication Matrix
Develop Communication Templates
Establish Status Reporting Requirements
Establish Project Meeting Requirements
Define Actual/Budget/Forecast Tracking Approach
Develop Project Contact List
Develop Project Organization Chart
Gain Approval on Communication Plan
Deliverable: Approved Communications Plan

Develop SharePoint Site

Update SharePoint Site Tools
Setup Access to SharePoint Site for Project Members
Prepare Training Materials
Setup Network/Project Files
Deliverable: Project's SharePoint Site Developed

Conduct Kick-off Meeting

Prepare Kick-off Meeting PPT
Schedule date and time
Identify Resources Attending
Schedule Location and Technical Requirements
Deliverable: Kick-off Meeting Complete

MONITOR & CONTROL STAGE

PM Recurring Activities

Create Project Status Reports
Conduct Project Team Meetings
Conduct Project Management Meetings
Manage Project Work plan
Monitor and Manage Scope
Manage Project Calendar
Monitor and Manage Issues
Monitor and Manage Risks
Complete Qualitative Analysis
Complete Quantitative Analysis
Update Risk Register
Execute Risk Response
Manage Sign-off Process
Manage Human Resources
Monitor and Manage Costs
Manage Change Control Process
Deliverable: Weekly Status Reports
Deliverable: Timely Monitoring of Project Activity
Deliverable: Maintain Project Records and Documentation

Create Risk Registers

Conduct Initial Risk Workshop
Prepare Risk Tracking Logs
Create Risk Register
Assign Value to Risk
Develop Response to Logged Risk
Update Risk Register
Deliverable: Initial Risk Register

QUALITY STAGE

Project Preparedness Check Point

Review Project Scope, Approach and Objectives
Review Key Deliverables
Monitor County Satisfaction

Project Progress Check Point

Evaluate Progress on Key Deliverables
Evaluate Progress on Issues
Evaluate Progress on Risks
Evaluate Progress against Work Plan
Evaluate Progress against Project Budget
Evaluate Compliance to Change Control Policy
Monitor COUNTY Satisfaction

CLOSE STAGE

Close Activities

Confirm All Sign-offs Completed on Segments/Stages

Confirm Issues are Resolved/Documented for Segments/Stages

Confirm Files Saved on Documentation Server

Review and Document Lessons Learned

Re-Validate Project Plan, Budget and Schedule

Deliverable: Updates to the Project Plan, Budget and Schedule

IMPLEMENTATION SEGMENT

IMPL DEFINITION STAGE

Process Discovery Workshops

Prepare Process Questionnaires

Prepare Process Diagrams

Conduct Configuration Review (Upgrades Only)

Conduct Discovery Workshops

Prepare a Requirements Traceability Matrix

Deliverable: Process Diagrams

Deliverable: Draft Go-Live Validation Checklist

Current State Requirements Lab

Review Process Diagrams

Review Requirements Traceability Matrix

Prepare RICE List

Prepare Production Validation Check List

Deliverable: Production Validation Check List

Deliverable: RICE List

Requirements Gap Sessions

Review Current State Analysis Packet

Prepare Gap Analysis Materials

Conduct Requirements Gap Sessions

Document Results from Requirements Gap Sessions

Deliverable: Approved Requirements Gap

Develop System Documentation

Review Process Gap Documentation

Review Current State Analysis Packet

Conduct a Future State Design Lab

Prepare System Design Requirements Materials

Conduct System Design Reqs Session

Document System Design Reqs Session Results

Deliverable: Approved System Design Requirements

CONFIGURATION STAGE

Configuration Labs

Review System Design Requirements

Conduct Configuration Labs

Review Menu Structure

Define/Document Object Security Requirements

Prepare Configuration Documentation

Deliverable: Draft Menu/Security Requirements

Deliverable: Configuration Documentation

Milestone: PY Environment Ready for Test

Develop Configuration Test Scripts

Review Configuration Documentation

Identify all Object Required to Test

Record Testing Steps

Prepare Unit Test Scripts

Deliverable: Initial Test Scripts Version 1

Test 1 - Configuration Testing

Review Unit Test Scripts

Prepare Unit Test Plan

Execute Unit Test Plan

Record Results from Unit Test Plan

Update Risks/Action Items

Update RICE List

Update Production Validation Check Lists

Update Configuration Documentation

Deliverable: Executed Configuration Test Scripts Results

Test 1 - Configuration Test Rework Lab
Review Unit Test Results
Work Items on Action Items List
Rework Unit Test Scripts
Prepare Integrated/Stress Test Scripts
Update Risks/Action Items
Update RICE List
Update Configuration Documentation
Deliverable: Updated Test Scripts Version 2

Test 2 - Parallel Testing A
Prepare Integrated Test Plan
Execute Integrated Test Plan
Record Integrated Test Results
Update Risks/Action Items
Update RICE List
Update Production Validation Check Lists
Update Configuration Documentation
Deliverable: Executed Parallel Testing A Results

Test 2 - Parallel Testing A Rework Lab
Review Parallel Test Results
Work Items on Action Items List
Rework Unit Test Scripts
Rework Parallel Test Scripts
Develop BPW Test Scenarios
Record BPW Test Steps
Prepare BPW Test Scripts
Update Risks/Action Items
Update RICE List
Update Configuration Documentation
Deliverable: Updated Test Scripts version 3

Test 3 - Parallel Testing B
Prepare Integrated Test Plan
Execute Integrated Test Plan
Record Integrated Test Results
Update Risks/Action Items
Update RICE List
Update Production Validation Check Lists
Update Configuration Documentation
Deliverable: Executed Parallel B Testing Results

Test 3 - Parallel Testing B Rework Lab
Review Integrated/Stress Test Results
Work Items on Action Items List
Rework Unit Test Scripts
Rework Integrated/Stress Test Scripts
Develop BPW Test Scenarios
Record BPW Test Steps
Prepare BPW Test Scripts
Update Risks/Action Items
Update RICE List
Update Configuration Documentation
Deliverable: Updated Test Scripts version 4

Test 4 - Conduct Business Process Workshop
Review BPW Test Scripts
Prepare BPW Test Plan
Execute BPW Test Plan
Record Results from BPW Test Plan
Update Risks/Action Items
Update RICE List
Update Production Validation Check Lists
Update Configuration Documentation
Deliverable: Executed BPW Test Results
Deliverable: Go-Live Validation Check Lists

DELIVERY STAGE
Go-live Testing
Production Test Review
Review Open Risks/Action Items
Prepare Production Cut-over Plan & Time Line
Review Production Installation Scripts
Review Production Validation Check Lists
Deliverable: Cut-over Scripts

Production Installation Plan

Review PD Installation Readiness
Copy PY Central Objects to PD
Build Full Package
Create PD Business Data
Execute Installation Plan for PD
Backup Business Data Tables
Copy Configuration Tables from PY
Run Conversion Scripts
Test Package

Production Test Validation

Review Results of the Production Installation Plan
Review Configuration
Review Data Tables
Review Security/Menu Setup
Review Conversion Results
Review Integration Setup
Review Forms Setup
Review Workflow Setup
Deliverable: Review/Evaluate Testing Results

GO LIVE

System Readiness

Review Project Plan
Conduct System Readiness Assessment
Deliverable: Document Go/No Go Decision

PD Business Data Restore

Review PD Data Restore Readiness
Restore PD Data
Copy Configuration Tables from PY
Run Conversion Scripts
Test Package
Deliverable: EnterpriseOne Live

Production Environment Validation

Review Results of the Production Installation Plan
Review Configuration
Review Data Tables
Review Security/Menu Setup
Review Conversion Results
Review Integration Setup
Review Forms Setup
Review Workflow Setup

Post Go Live Support and Issue Resolution

Promote/Deploy DV/PY/PD per Project Plan Outline
Resolve Installation Issues
Resolve Production Issue
Deliverable: Post Go-Live Issues List

TECHNOLOGY SEGMENT

TECH DEFINITION STAGE

Future State Analysis (Tech)

Infrastructure Design Lab (Hosted)

Review Current State Infrastructure Architecture
Review Future Infrastructure Requirements
Determine MTR's for Future State
Prepare Future State Design Documentation
Deliverable: Future State Infrastructure Design

IT Policies Design Labs (Hosted)

Review Future State System Security and Menu Requirements
Review Future State Backup Requirements
Review Future State Data Achieving Requirements
Review Future State User System and Remote Access Requirements
Review Future State Development Lifecycle Requirements
Prepare Future State IT Policies
Deliverable: Hosted State IT Policies

Technical Requirement Workshops

Form Requirements

Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Form Technical Specifications

Report Requirements
Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Report Technical Specifications

Application Requirements
Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Application Technical Specifications

Integration Requirements
Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Integration Technical Specifications

Workflow Requirements
Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Workflow Technical Specifications

Conversion Requirements
Review Functional Requirements
Prepare Technical Specifications
Receive Development Approval
Update RICE List
Deliverable: Conversion Technical Specifications

DEVELOPMENT STAGE

Form Development
Review Technical Design
Construct
Unit Test
Promotion/Deploy to PY Environment
User Acceptance Testing
Update Technical Specifications
Update RICE List
Deliverable: Form Template Functional

Application Development
Review Technical Design
Construct
Unit Test
Promotion/Deploy to PY Environment
User Acceptance Testing
Update Technical Specifications
Update RICE List
Deliverable: Application Object Functional

Report Development
<<INSERT REPORT NAME>>
Review Technical Design
Construct
Unit Test
Promotion/Deploy to PY Environment
User Acceptance Testing
Update Technical Specifications
Update RICE List
Deliverable: Report Object Functional

Integration/Interface Development
Review Technical Design

Construct
Unit Test
Promotion/Deploy to PY Environment
User Acceptance Testing
Update Technical Specifications
Update RICE List
Deliverable: Integration Object Functional

Workflow Development
Review Technical Design
Construct
Unit Test
Promotion/Deploy to PY Environment
User Acceptance Testing
Update Technical Specifications
Update RICE List
Deliverable: Workflow Object Functional

CNC Support on Development Effort
Promotion/Deploy to PY Environment
Deliverable: Object Deployed/Promoted

LEARNING SEGMENT
Pre-training Activity
Clean-up PY for Training
Prepare E1 Navigation Training Materials
Prepare E1 Functionality Training Materials
Prepare Hosted System Administration Training Materials
Deliverable: Training Agenda, Schedule, Attendees Listing

Project Team Training
Prepare Application Training Materials
Schedule Application Training Courses
Conduct E1 9.1 Navigation Training Session
Conduct Employee Maintenance Training Session
Conduct Benefits Administration Training Session
Conduct Employee Self-Service Training Session
Conduct Global Leave Administration Training Session
Conduct Payroll Processing Training Session
Conduct Time Entry Training Session
Conduct Hosted System Administration Training
Update Requirements Tractability Matrix
Prepare System Administration Procedures
Deliverable: Training Complete

User Training
Schedule HCM Application User Training Sessions
Conduct E1 9.1 Navigation Training Session
Conduct Employee Maintenance Training Session
Conduct Benefits Administration Training Session
Conduct Employee Self-Service Training Session
Conduct Global Leave Administration Training Session
Conduct Payroll Processing Training Session
Conduct Time Entry Training Session
Deliverable: User Training Complete

List of Documentation

This is a schedule of documents that will be delivered as part of the upgrade project from the project team.

Project Documents
Project Charter
Stakeholder Register
Status Reports

Project Documents
Stakeholder Management Strategy
Project Calendar
Detailed Project Plan
Project Management Plan
Risk Assessment Plan
Communications Plan
Change Control Policy
Requirements Traceability Matrix
Future State Process Diagrams
Training Agenda, Schedule, Attendee listing
Course Materials
Reporting , Interfaces, Conversions and Enhancements (RICE) List
G0-Live Validation Check List
System design requirements
Requirements Gap Documentation
G0-Live Cut-over plan
Cut-over Scripts
Go-Live Readiness Assessment Checklist
Menu/Security Requirements
Test Scripts
Software Development Lifecycle Policy
Functional Specifications - Development
Technical Specifications - Development
Post Go-Live Issues List
Lessons Learned – Post Go-Live

4. Pricing

Denovo is pleased to be able to provide our pricing for our proposed Denovo Cloud JD Edwards EnterpriseOne to provide Cook County JD Edwards Time Accounting, Payroll, and Human Resources Solutions. The monthly per employee subscription pricing includes all of the costs associated with:

- Oracle BPO licensing to JD Edwards EnterpriseOne
- Standard annual Oracle Call Center Support
- Access to Oracle provided updates including toolset updates, ESU's and Year-end processing updates
- Infrastructure (servers, networks, etc.) within the Denovo Colorado data center
- 24/7 infrastructure monitoring, alert and security services
- Operating system (OS) patches and upgrades
- 24/7/365 manned service desk operations
- Denovo portal that provides a Cook County branded Employee Solution Center
- Technical support to handle routine maintenance of CNC, database, and integration services
- Denovo provided domain expertise of the Cook County JD Edwards EnterpriseOne instance
- Functional support to handle routine user needs associated with Cook County's configuration
- Disaster Recovery – traditional recovery model

Denovo Cloud Subscription for JD Edwards EnterpriseOne Human Capital Management

The Denovo Cloud Subscription is based on a 36 month term which begins with the first six months billed under the Denovo Cloud Setup Period at a monthly rate for six (6) months. The sixth (6th) month through the thirty (30th) month will be billed with the Denovo Cloud Subscription Period at a per employee rate.

The Initial Setup Fees will be charged on the first month's Invoice.

Description	**Total Estimated Price**
Initial Setup Fees	$81,810
TOTALS:	**$81,810**

Description	**Term (Months)**	**Per unit**	**Quantity**	**Estimated Monthly Price**
Denovo Cloud Setup Period (per month) Term Period: May 1, 2013 through October 31, 2013	6	$24,419		$ 24,419
Denovo Cloud Subscription (per employee) Term Period: November 1, 2013 through April 30, 2016	30	$4.662	22,000	$ 102,564

The Denovo consulting services required to complete the proposed efforts for Cook County are being delivered on a fixed fee basis. Rates are inclusive of travel and other miscellaneous expenses:

Description	Est. Effort (Hrs.)	Total Estimated Price
Payroll/HR Upgrade project	14,150	$ 2,463,000
TOTALS:	**14,150**	**$ 2,463,000**

Cook County may engage Denovo to perform professional services on activities not within the scope of this proposal, such as production support of the current Cook County JD Edwards systems. During the term of the proposal the following rates will apply:

Description	Total Estimated Price
Functional and Project Leadership resources (off-site and local)	$ 152.00/hour
Functional and Project leadership resources (travel included)	$ 192.00/hour
Developers and CNC Administrators (off-site and local)	$ 135.00/hour
Developers and CNC Administrators (travel included)	$ 175.00/hour

Basis and Conditions for Pricing

A summary of our reservations, conditions, and constraints as related to estimates and statements regarding this project follows:

- The proposed scope of work in this document is limited to the tasks described in our proposal and includes development of UPK content by consultants.
- This proposal is provide on a fixed fee basis (inclusive of travel expense).
- The software source code is "leased" for the duration of the contract but is not the property of Cook County. The data set is the property of Cook County and will be transferred at no additional cost to Cook County once the contract has been terminated.
- If Cook County wishes to migrate from subscription to perpetual based licensing at the end of the contract, Oracle will negotiate an equitable pricing model with Cook County to make the transition. Denovo will support these negotiations on behalf of Cook County.
- Our assumption for the project for scheduling purposes is that it will commence on April 22, 2013. Delays will likely result in delays from our proposed Go-Live date(s). The elapsed duration of the project could change if it is necessary to modify the launch date to comply with fiscal year or quarter end dates or other events force delays in completing the project.
- Cook County will ensure that requested participation of stakeholders occurs on a timely basis and at the level requested. Denovo is requesting a maximum of a five (5) business day turnaround for submittal of specified deliverables as part of Cook County's responsibility for review and approvals. Delays beyond this request may result in schedule delays and cost escalation.
- The standard work week for consultants will be Monday through Thursday, 10 hour days, where exceptions will occur for holiday weeks. This approach is designed to provide a day each week where Cook County users

can perform their "day" jobs without interruption from consultants. If Cook County requires a full five-day, on-site work week, travel costs could escalate

- Consultants will have appropriate access to Cook County systems to work remotely
- If Cook County is unable to meet its deadline commitments, this may result in a change order to reflect any increase of consultant efforts, based on the duration and extent of delays
- Rates are inclusive of travel costs.

Schedule of Payments

The Denovo professional services, inclusive of travel and other miscellaneous expenses, will be invoiced based on the following project Milestones. The milestones will be invoiced when the associated deliverables have been accepted by the Cook County. The invoice dates are provided as estimates of the planned invoice dates. When the date is "Various", it indicates that the milestone will be invoiced on multiple days. In the case of post go-live support it will be billed on a bi-weekly basis. With the Development and Enhancement milestones, each development or enhancement item will be assigned a dollar amount and billed based on progress for each item against the appropriate milestone.

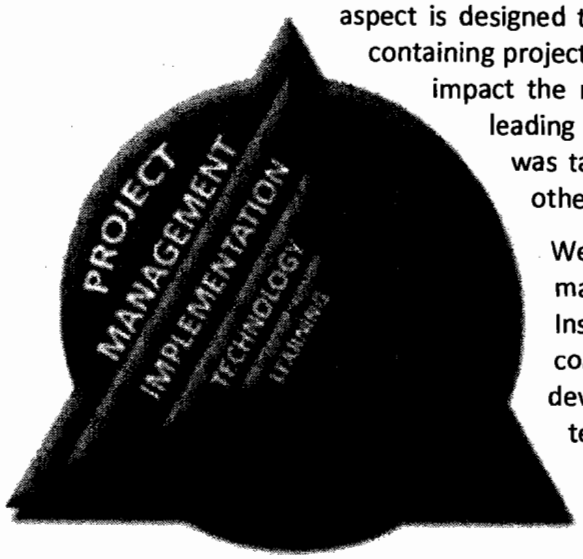
Milestones	Invoice Date	Dollars
Project Initiation	5/13/2013	$ 31,104
Discovery Workshops	6/24/2013	$ 86,016
Project Governance	6/3/2013	$ 44,160
Project Team Training	6/24/2013	$ 38,400
Current State Review	7/15/2013	$ 134,400
Future State Defined	7/29/2013	$ 218,880
E1 Configuration	8/12/2013	$ 91,020
Test #1 - Unit Testing	8/26/2013	$ 88,320
Test # 1 -Unit Testing Rework	9/9/2013	$ 88,320
Test #2 Parallel Test A	9/23/2013	$ 88,320
Test #2 Parallel Test A - Rework	10/7/2013	$ 88,320
Test #3 Parallel Test B	10/21/2013	$ 92,370
Test #3 Parallel Test B - Rework	10/28/2013	$ 50,130
Test #4 User Acceptance Testing	11/11/2013	$ 79,920
User Training	11/18/2013	$ 48,000
Go-Live	11/25/2013	$ 68,400

Post Go-Live Support	Various	$ 137,100
Development Docs	Various	$ 275,484
Development Complete	Various	$ 406,771
Development UAT	Various	$ 137,524
Enhancement Docs	Various	$ 58,860
Enhancement Completed	Various	$ 50,610
Enhancement UAT	Various	$ 60,570

Exhibit A: Denovo Standard Implementation Methodologies

Denovo's ***Process before Technology***™ philosophy permeates our organization. Our Delivery team focuses on the processes that Cook County uses and tailors the project's delivery plan to enhance Cook County's ability to perform day to day operations. This approach focuses the project on functionality that adds value to Cook County, while ignoring meaningless "Bells and Whistles" that can bog down the project.

To support this approach, Denovo has encapsulated four different methodologies into our project approach. Each aspect is designed to ensure consistent results while identifying and significantly containing project risk; by containing project risk we better control any negative impact the risk may present to the project. In designing our approach, leading project methodology theories were employed and great effort was taken to layer the methodologies so that they supported each other.



We begin with Project Management, based on the project management principles outlined by the Project Management Institute; we spend time defining the project scope, resources and communication paths. In our Learning methodology we focus on developing and executing training plans to transfer the project team's knowledge to the system users. In the Implementation and Technology methodologies, based on the Deming Cycle of Plan, Do, Study and Act as well as elements of the Software Engineering Institute's Capabilities Maturity Model (CMM) framework, we break down the steps of a successful software project into simple, manageable tasks executed in defined workshops, sessions and labs that insure a rapid deployment. Denovo's approach is supported with tools developed on a hosted SharePoint site configured specifically for Cook County's project.

Although these methodologies are designed to be complete and robust, we do not dogmatically require that all elements of the methodology be employed for all projects. By selecting only the required elements to make Cook County's project successful, we create a custom solution that cost effectively achieves your goals with a consistently high level of quality. This process also allows our methodology to be aligned with methodologies utilized by Cook County.

Denovo's Standard Approach to Implementation Projects

This section provides a summary of services Denovo provides within its methodologies. As we work with you to fully understand the scope we will tailor our approach to support your specific project requirements. Each methodology is an assembly of "work clusters". Each work cluster contains activities to achieve the deliverables of the work clusters. These activities are usually performed in the contexts of a Workshop, Session or Lab. The basic differences between these contexts are:

- Workshops are performed in a room where members of the consulting team, both Denovo and Cook County's resources, meet to interact and exchange ideas and problem solve.
- Sessions are performed in a room where a Denovo resource is generally leading a discussion designed to educate Cook County's resources.

- Labs can be performed in a common room, but not necessarily. It is generally designed for researching and gathering data independently. Compiling this data and documenting it for further discussion amongst the project team members at a later workshop or session.

All project artifacts are provided electronically to Cook County at the end of the project.

Denovo's approach when developing project plans is to identify the project goals, determine which methodologies will be drawn upon, and select which work cluster to assign to the project team. This collection of work clusters is placed in "project segments"; the segment is named by the methodology from which the work clusters originated. These segments are comprised of:

- Project Management
- Implementation (configuration, testing & documentation)
- Technology (installation, interfaces, conversions, print forms, workflows, reports & modifications)
- Learning (training, transfer of knowledge, & documentation).

Project Management Segment

This segment is active for the life of the project and guides the other segments to significantly contain risk by executing well designed Communication plans, Issue Tracking, and Change Control Management. The Project Management segment accomplishes the following objectives:

- Define and document the project scope
- Prepare the project plan
- Prepare the project budget
- Prepare an effective communication plan including:
- Define project meetings
- Define issue tracking and handling
- Define change control policy
- Define status reporting
- Establish the project SharePoint site.
- Provide daily monitoring of project activity:
- Resolve issues
- Prepare timely status reports
- Conduct regularly scheduled project meetings
- Document change of scope requirements
- Manage the project plan timeline
- Manage the project budget
- Maintain project records and documentation
- Perform regularly scheduled Quality Reviews.

Deliverables from various project management activities include:

- Kick–off meeting – Will occur within one week of contract execution
- Project Plan – Resource plan and task schedule in Microsoft Project
- Issues Management Plan - Details how Issues management will be handled on this project
- Project Change Control Plan - Details how Project Change Control practices will be applied to the project. Proposals should discuss how any modification or deviation from the standard functionality, or changes to the time or cost will be subject to the change control procedures via contract modification.

- Risk Management Plan – Identifies potential risk and details how Risk Management practices will be applied to the project
- Communication Plan – Provides collection and distribution structures, description of information to be distributed, method for updating the plan, and schedule listing when information will be produced.
- Bi-Weekly Status Reports – Written Bi-Weekly Status Report to be submitted on an agreed schedule. We will propose to Cook County a format for these reports and will accept format and content suggestions, as needed, to maintain their acceptability.
- Configuration Management Plan – Applies inherent configuration management tools within the JD Edwards EnterpriseOne software specifically with this project's requirements and objectives.
- Test Management Plan

Technology Segment

As with the Project Management and the Learning segments, this segment spans the life of the project and operates in unison with the application-focused Implementation segment. This segment contains all the technology components where the Implementation segment contains business functionality being rolled out utilizing technology as an enabler.

Tech Definition Stage

For installation and development aspects of Cook County's Implementation project, the Denovo approach starts off with this initial stage, where both client and consulting resources share information and agree on a strategy and framework to successfully implement the solution. This stage provides communication tools and work documents to orient all team members to the scope of the technical work to be performed. The deliverables from this stage include:

- Current State Technology Assessment
- Architecture Design Document (JD Edwards EnterpriseOne configuration with Cook County's overall infrastructure and integration points to legacy systems.)
- Systems Integration Plan (finalizes scope third party integration with JD Edwards EnterpriseOne and approach for each system.)
- Data Conversion Plan (finalizes data conversion entities and approach for data conversion)
- Technical Development Specifications (Conversions, Integrations, Workflows, Reports, Applications, Print Forms)
- Reporting Requirements Output Matrix
- Technical Development Matrix
- Security Assessment and Plan
- Future State Technology Architecture
- Future State Requirements Document
- Cook County's Design Sign-off
- Refined Project Plan, Budget, Schedule, and Sign-off.

Installation Stage

This segment is used to get the hardware installed and running in preparation for the Configuration stage. In many cases it is started during the Definition stage right after the Future Technology Architecture is approved and procured. It handles all the installation steps up the creation of the Production environment. Those activities are included in the Delivery Stage. Deliverables and milestones from this stage include:

Deliverables:

- Accessible DV, PY, & PS Environments
- System Access from Web Browser
- System Access form Portal
- Portal installation and configuration document.

Milestones:

- Hardware and Software Installation Complete
- Portal installation/configuration complete
- Able to view and navigate JD Edwards EnterpriseOne portlets from portal server.

Development Stage

This stage of the Technology segment will interact heavily with the Configuration stage. All objects being designed, developed (programmed), and tested for use in the software will be developed as tasks in this stage. The business analysts designing the necessary functionality will do so as part of a task in the Implementation Definition stage, but the programmers who must design and construct these elements will do so in the Technology segment. The Development stage will include the following tasks for each technical development component (Print Forms, Reports, Applications, Integrations, Workflow and Data Conversions):

- Design – taking the business functional design from the Business Analyst in the Implementation Definition stage and turning it into a technical design.
- Construction – programming or configuring software to satisfy the Design.
- Unit Test – testing just the functionality of the object without interfaces or integration to other components of JD Edwards EnterpriseOne.
- Deployment – Rolling out the fully tested JD Edwards EnterpriseOne and related Software Objects to users. This may involve deploying software from the host to deployment servers, client PCs, and/or providing Internet access.
- User Acceptance Test – This task is only performed when the project does not include a BPW. This is a Business Process test, usually performed by a member of the functional project team to insure the custom development integrates with the rest of the business process.
  Documentation – documentation of files, technical functions, and flows within the program.

Deliverables:

- Program Documentation
- Unit Test Result Documents
- Migration and/or Development Plans
- Print Forms, Reports, Applications, Integrations, Workflow, and Data Conversion

Milestones:

- Object Development Complete
- Print Forms, Reports, Applications, Integrations, Work Flow, and Data Conversions

Technical Development

Typical development lifecycle steps include:

- Define Requirements - Defining the specifications on what features and functionality (i.e., contents, format, and calculation) the report must contain is the required first step. This step will document the functionality, define the data (and sources of the data), timing of reporting (i.e., must be run before or after some event like Month-end), and describe any calculations.

- Map Data - Identifying the source of the data to be used by the report, any data elements not already maintained by JD Edwards EnterpriseOne, and determining an appropriate means, space, and format with which to save and maintain data needed by this report.
- Program Reports – The report will be programmed to meet the functional specifications as defined by the requirements analysis and to utilize the data from the Data Map.
- Unit Test – The report will be tested to ensure its functionality satisfies the Requirements and uses the data mapped. If data is identified which is not maintained by JD Edwards EnterpriseOne, the maintenance source of data will also be tested.

Development efforts include Reports, Data Conversion, Integration, and Applications.

Reports Development - JD Edwards EnterpriseOne is provided with hundreds of standard reports which will meet most of Cook County's reporting requirements. However, many clients have unique reporting needs where additional reports will be developed to better support Cook County's business. We begin, by creating the Report Requirements Matrix, which is a listing of all currently used and/or needed reports, their primary fields, frequency of use, and owner (who uses them). This Report Matrix will be critical to categorize, prioritize, possibly eliminate and/or consolidate all reports before we begin development.

Data Conversion Development - This effort includes the data conversion from Cook County's legacy systems to JD Edwards EnterpriseOne. In order for the team to capture and convert data from Cook County's legacy systems, we must define all existing data elements in Cook County's legacy systems, determine if they are needed within JD Edwards EnterpriseOne, if so where would they reside, and in what format (will codes change and/or field sizes change). The converse must also be defined, such as what data elements JD Edwards EnterpriseOne expects in order to properly address Cook County's processes.

Integration Development - Should there be a need for interfaces, they will be identified and a scope of work and estimates for consultant will be developed as part of the Technology Definition stage. We will identify the necessary connections to Cook County's legacy systems (where data needs to come from Cook County's systems to JD Edwards EnterpriseOne), the data to be shared, and in what format (check to see if codes will change and/or field sizes will change). The converse must also be defined, such as what data elements JD Edwards EnterpriseOne needs to pass to Cook County's legacy systems in order for them to continue to properly handle Cook County's processes.

Application Development – We do not anticipate that custom development will be required to provide the desired functionality. As is our philosophy we do not customize the "vanilla" programs provided form Oracle. Should we determine during execution of the project that some development will be required, we will develop a proposed scope of work with estimates prior to proceeding.

Implementation Segment

This segment defines the progression of the project. It is here where the staging of the Implementation and Technology segments occurs in preparation for the integrated testing. This segment also has to coordinate with the Learning segment to provide the system support to execute the training sessions and present the training materials for both project team members and users training sessions.

Implementation Definition Stage

For application and functional aspects of Cook County's project, the Denovo approach starts off with this initial stage, where both client and consulting resources share information and agree on a strategy and framework to successfully implement the project. The Definition stage generally takes from two weeks to four months depending upon the complexity of the environment, the amount of development analysis, change requirements

to the technology infrastructure, and the number of JD Edwards systems being configured. This stage provides communication tools and work documents to orient all team members to the scope of the work to be performed. The deliverables from this stage include:

- Current State Business Requirements
- JD Edwards EnterpriseOne Process Walk-throughs
- Process Master Matrix
- JD Edwards EnterpriseOne Gap Analysis/Package Fit Analysis
- Future State Design Document
- Re-engineering Recommendations for the Future State
- Future State Requirements Document
- County Design Sign-off
- Refined Project Plan, Budget, Schedule, and Sign-off.

Process mapping is initiated by Denovo

Configuration Stage

With a clear definition of what the new systems, processes, and procedures (the Future State Design) will do for Cook County, the Project Team will take the Requirements, Design, and Refined Project Plan from the Definition stage and begin the iterative process (repeat of Configuration and Acceptance Test until the process element is functioning accurately per the Future State Design) of developing the Future State. This process involves building prototypes with the configured JD Edwards EnterpriseOne software, testing those prototypes, and gaining acceptance from both Cook County's members of the Project Team and Cook County's Executive Management, that the previously approved Design, as it is being developed, indeed meets their expectations, or reconfigure the software and repeat the Acceptance Test. The entire Configuration stage will be conducted within a controlled environment referred to as the Prototype environment (PY). The Configuration stage will be controlled by the Project Team and will contain various components of the Future State Design in various stages of design, test, and acceptance. Deliverables and milestones from this stage include:

Deliverables:

- Configuration Element Test Scripts
- Configuration Test Result Documentation
- BPW Test Scripts
- BPW Test Result Documentation
- Business Process Procedures Documentation.

Milestones:

- PY Environment Functional
- Executed Configuration Test
- Closed Issues and Resolutions from Configuration Test.

Delivery Stage

The Delivery stage occurs simultaneously with both the Implementation and Technology segments. We start this stage with a complete hands-on Integration test. It is this test that will confirm that each of the business processes will interact with the other business processes. We also perform our stress testing here to insure there will be adequate hardware performance. Once this testing is complete we are ready to deliver the environment to Production. Also included in this stage is post Go-live support. Deliverables and Milestones from this stage include:

Deliverables:

- Completed Go-live Cut-over Scripts
- Completed Configuration Review Scripts
- Completed Integrated Test Scripts
- Completed Stress Test Scripts
- Completed Integrated Test Result Documentation
- Completed Stress Test Result Documentation

Milestones:

- Functional Integrated Test Environment
- Closed Issues and Resolutions from Configuration Test
- Sign-off and Approved Integrated Test
- Sign-off and Approved Stress Test
- System Sign-off
- Production System Functional

Learning Segment

The Learning component is based upon a proven methodology and realistic time considerations. It incorporates those essential concepts that ensure knowledge transfer. The approach is designed to support and facilitate Cook County's transition to an ERP system; that is, the learning component is designed to help end users do their jobs using an ERP application. This training component also documents how knowledge transfer will be facilitated between the Project's consulting resources and Cook County's resources.

Project Knowledge Transfer

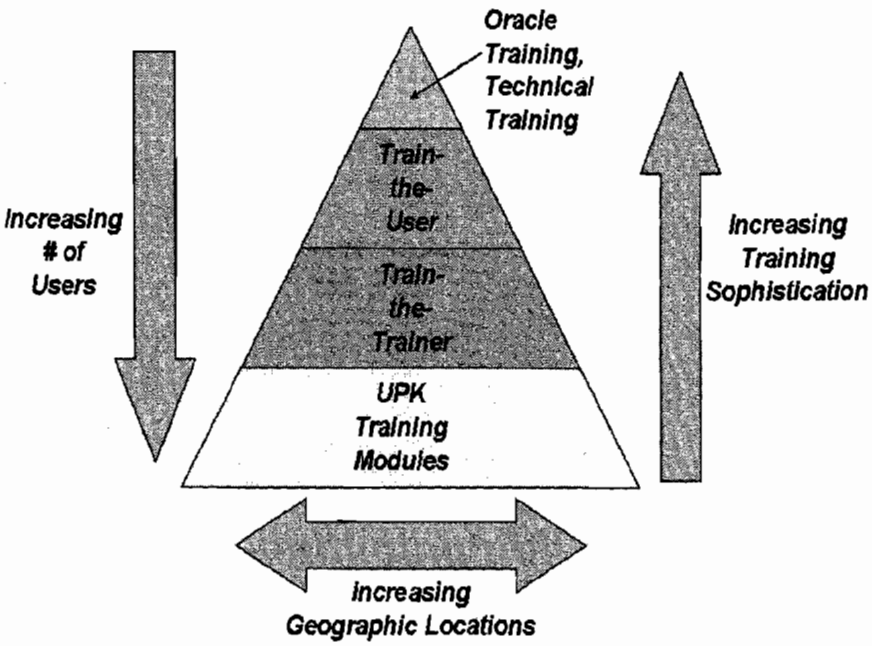
It is essential that all project-related materials be accessible by the entire project team and change control implemented. Therefore, we routine deploy a number of tools to facilitate knowledge transfer, including:

- *Microsoft (MS) SharePoint* – A logically structured, easy to use document repository and document management tool leveraged to centrally store all project-related materials.
- *MS Project* – Used as a project management tool to breakout sequential tasks and activities into logical start and end dates, dependencies, durations, resource assignments, and percentage complete. Depending on Cook County's need for detail, MS Project can be managed at multiple levels of summary and detail and can even be integrated into the MS SharePoint product for ease of access and visual flow of the project process.
- *MS PowerPoint* – This tool will be leveraged to illustrate the higher level aspects of the project progress and to facilitate process understanding and training where appropriate.
- *MS Outlook* – Outlook (Email, Calendar, Meeting, and Task Management) is a corporate wide tool used at Denovo to conduct correspondence about project-related activities.

Upon completion of the project, the entire portfolio of project-related materials will be packaged and delivered to Cook County for reference and historical access.

Training

Successfully rolling-out the JD Edwards EnterpriseOne product normally requires a multi-tiered training approach, as illustrated in the following pyramid diagram:



Oracle Training – To support Cook County's training requirements we recommend you consider the standard courses that Oracle provides. We find the sources especially helpful for the technical team in an Implementation project such as this. Oracle provides a combination of instructor-led classroom training and on-line classes (via "Guided Learning Paths"). Further details can be found at http://education.oracle.com

Technical Training – During the course of the project's major technical installations, the Denovo technical team will conduct one-on-one knowledge transfer and hands-on training for Cook County's technical team. We recommend that your technical team FIRST complete the on-line Guided Learning Paths for JD Edwards EnterpriseOne System Administration and JD Edwards EnterpriseOne Installation, prior to receiving the hands-on training. There are no formal training materials prepared for these sessions – this is "learn-by-doing".

Mentor Training – This approach is used where there are a small number of users for a specific functional area, and it makes economic sense for the Denovo team to directly train the end users. Each Application area has a limited amount of time estimated to conduct this type of training.

Train-the-Trainer – When application knowledge needs to be disseminated to a fairly large team, it makes economic sense for the Denovo team to train a designated "power user" in each affected department, who in turn trains the users in that area. Each Application area has a limited amount of time estimated to conduct this type of training. Denovo suggests that Cook County license the Oracle User Productivity Kit (described in detail below) to facilitate this training.

Oracle User Productivity Kit ("UPK") for JD Edwards EnterpriseOne – UPK is a licensed product, sold and supported by Oracle, that has specific content built into it for the JD Edwards EnterpriseOne applications to provide Internet-based training and documentation management. UPK is a comprehensive, cost-effective, customizable solution designed to help organizations quickly create the critical documentation, training, and support materials needed to improve the project team and user productivity throughout the lifecycle of the software. UPK provides system process documentation, user acceptance test scripts; comprehensive instructor led training materials, web-based training materials, role-based performance support and complete documentation. Also provided is the UPK Developer, which serves as a single source development and customization tool to enable rapid content creation and customization.

Training materials deliverables will include:

- Training and documentation solutions sub-project plan

- Configuration team training plan
- End user training plan
- End user role descriptions
- Course Curriculum
- Course Design in the form of a Course Outline for end user training
- Course Design in the form of a story board for online trainings
- Participant Guide, which includes course agenda, course objectives, course modules, module overview, topic description, and exercises/solutions
- Quick Reference Guides or Job Aids
- Train-the-Trainer Participant Guide

Denovo will create a customized prototype design based upon the needs of your users. We will submit this design for your approval. Once the design has been approved, this will become the project standards for all documentation that is produced.

Training milestones:

- Training Plan completed
- Curriculum approved
- Design documentation completed
- Materials developed and completed
- End user training completed

Denovo will provide the necessary training for the project team and the end users in the areas of CNC, Development and Application. The schedule will be outlined in the detailed project plan. Oracle University training is also available but not included in our proposed scope of work.

Train the Implementation Team – It is very important that Cook County's members of the integration team have a basic knowledge of JD Edwards EnterpriseOne so that they can be an active member of the team in configuring and testing the system. Denovo will provide County Team Resources "just in time" training to ensure that team members retains the information required to make important design decisions. These sessions are conducted by members of the Denovo team with JD Edwards EnterpriseOne-specific materials.

Material Review and Approval Process

All training materials deliverables will go through a review and approval process. Each document will be submitted to Cook County's subject matter experts for one or two formal content reviews. After the development is complete, the materials will go through a final training team editing/proofreading.

End User Training Delivery

All training will be delivered on site either in a mentoring session or a formal classroom setting. A schedule will be created and signed off by the project team.

Train the Trainer approach

The Training will be planned for and delivered by members of the Implementation team. In general we see Cook County and Denovo working jointly on planning the training, with Denovo leading the Train-the-Trainer sessions and Cook County's personnel training Cook County's end users. Here we discuss the involvement by all the Project team members. We typically expect that we will guide Cook County's resources, but that Cook County's

resources will do much of this work as part of the learning process to more easily allow them to subsequently train Cook County's end users.

Mentor approach

For courses that impact a small number of end users, the Denovo team will train the end users. In this situation the Denovo team will do all of the work.

Exhibit B: Technical Discovery Findings Summary

Denovo Technical Team – Steve Pollack, Emad Banoub, and Angela Freeman

1. Cook County System Analysis
    a. **History of Libraries (Production)**
    b. **Security Issues**
    c. **End-Users**
    d. **Customizations**
    e. **Payroll/Business Data**
    f. **Sleeper Jobs**
    g. **Install History and Disk Space**
    h. **List of Items from Kim/Joan**
    i. **Menu History**
    j. **Summary Report (Issues/Challenges)**

2. History of Libraries (Production)
    a. **Library Type: PROD** **Number of Objects: 5434**
    b. **Library Type: DISPLIB** **Number of Objects: 364**
    c. **Library Type: prodPDTA** **Number of Objects: 1490**
    d. **Library Type: PRODBDTA** **Number of Objects: 5237**
    e. **Library Type: cltsecprod (control security)** **Number of Objects: 13**

3. Security Issues
    a. **Security Server is Broken**
    b. **All End-Users that has a OneWorld ID must match the JD Edwards World User ID (identical)**
    c. **Power Lock – if the End-Users ID does not get lock; must manually input**
4. End-Users
    a. **Total of End-Users: 458 (JD Edwards World A73)**
    b. **One Line with Who's Who**
    c. **Full Address with Category Codes**

5. Customizations
    a. **Need to speak with Functionality Analyst to Discuss the total of reports**
    b. **Estimated 9 different reports (Technical Team was not sure)**

6. Payroll/Business Data

a. **Library Type: PRODPDTA (Payroll Data) (78,020,091,904 – Data Space Size)** **Number of Objects: 3,250 Total: 78 Gigabytes**
b. **Library Type: BDATA (Business Data) (57,482,268,672 – Data Space Size)** **Number of Objects: 1,835 Total: 57 Gigabytes**
c. **Combines Payroll/Business Data Totals: 135**
d. **Total Number of Members: 1,345**

7. Sleeper Jobs
   a. **D= Daily Jobs**
   b. **B=Bi-Weekly Jobs**
8. Install History (Reference File Name: qpezdisk)
   a. **A73PC 00010 – Install Date 4/7/99**
   b. **Server Name: CFMIS400**
   c. **Auxiliary Storage Total Disk Space on System: 2748980 Bytes**
   d. **% System Asp Used: 65.6319**
   e. **Main Storage Size: 14256 Megabytes**
   f. **Machine Type-Model: 9406-570**
   g. **System Serial Number: 10-DA31D**
   h. **Current Unprotect: 36708M**
   i. **Maximum Unprotect: 52255M**
   j. **Report Type: *LIB**
   k. **Asp Device: *SYSBAS**
   l. **Libraries: *ALL**
   m. **Size of Smallest Library: 0**
   n. **Sort by: *SIZE**
   o. **2 Types of Boxes: (1) Staging (Test); (2) Development**
   p. **3 Types of JD Edwards World Environments: (1) Production; (2) Staging; (3) Development**
9. List of Items from Kim/Joan
   a. **Current Total of End-Users (Active Employees)**
   b. **Number of Processors**
   c. **CPW (Computer Performance Writer)**
   d. **Largest and Lowest Libraries**
   e. **Performance Report**
   f. **Utilization Report – ran by Manny and sent to Steve via Email**

10. Menu History (F0082H) Field Attributes
    a. **Library Type: DSPFD** **Number of Records: 7,382,295**

Menu History (F0082H) Field Attributes

Field	T	Len		From	To	Text
MHMNI	A	10		1	10	Menu Identification. . . . .
MHSELN	P	5	0	11	13	Selection Number . . . . .
MHJTOE	A	10		14	23	Job to Execute . . . . .
MHMTOE	A	10		24	33	Menu to Execute. . . . .
MHUSER	A	10		34	43	User ID. . . . .
MHWKST	A	10		44	53	Work Station Name. . . . .
MHJOB	A	8		54	61	Job Number . . . . .
MHDXJ	S	6	0	62	67	Execution Date . . . . .
MHEXT	S	6	0	68	73	Execution Time (HH/MM/SS). . .

Attachments

1. **Object by Last Used Date**
2. **Payroll by Last Used Date**
3. **Payroll by Object**
4. **Qpezdisk**
5. **Menu History Field Attributes**

EXHIBIT 4

Schedule Compensation

EXHIBIT 4

SCHEDULE OF COMPENSATION

This SCHEDULE OF COMPENSATION ("SOC") is entered into in connection with and pursuant to the provisions of the Professional Services Agreement (the "Agreement") between Denovo Ventures, LLC doing business as Denovo ("Denovo") and Cook County, Illinois ("Client"). Capitalized terms shall have the respective meanings assigned to such terms in the Agreement unless otherwise defined herein.

Pursuant to Article 3a of the Agreement, Denovo and Client desire to execute this Schedule of Compensation for the performance by Denovo of certain monthly subscription charges and professional consulting services, which are described within the Agreement. Such services shall be provided by Denovo pursuant to the terms and conditions set forth herein and the Agreement.

Effective Date: **4/22/2013**

Delivery Period: **4/22/2013** through **4/30/2016**

Total Not to Exceed Fee: $6,474,356.00

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Description of Compensation Components

This schedule defines the pricing components and methods of compensation for the following:

- Monthly subscription pricing for software, infrastructure, support for the Denovo Cloud JD Edwards EnterpriseOne 9.1 solution
- Professional services to implement the JD Edwards HR/Payroll/ Upgrade Project
- Hourly rates for additional consulting services

Subscription Pricing Methods and Payment Structure

The Denovo Cloud Subscription is based on a 36 month term which begins with the first six months billed under the Denovo Cloud Setup Period at a monthly rate for six (6) months. The seventh (7th) month through the thirty sixth (36th) month will be billed with the Denovo Cloud Subscription Period at a per employee rate.

The Initial Setup will be charged on the first month's invoice.

Description	Total Price
Initial Setup	$81,810
TOTALS:	**$81,810**

Description	Term (Months)	Per unit	Quantity	Monthly Price
Denovo Cloud Setup Period (per month) Term Period: May 1, 2013 through October 31, 2013	6	$24,419		$24,419
Denovo Cloud Subscription Period (per employee) Term Period: November 1, 2013 through April 30, 2016	30	$4.662	22,000	$102,564

Professional Services

The Denovo professional services required to complete the proposed work for Client will be delivered on a fixed fee basis. Rates are inclusive of travel and other miscellaneous expenses:

Description	Est. Effort (Hrs.)	Total Price
HR/Payroll Upgrade Project	14,170	$ 2,463,000
TOTALS:	**14,170**	**$ 2,463,000**

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Professional Services

Basis and Conditions for Pricing

A summary of our reservations, conditions, and constraints as related to estimates and statements regarding this project follows:

- The proposed scope of work as estimated in this document is limited to the tasks described in our proposal and includes development of UPK content by consultants.
- This proposal is provide on a fixed fee basis (inclusive of travel expense).
- The software source code is "leased" for the duration of the contract and is not the property of Client. The data set is the property of Client and will be transferred at no additional cost to Client once the contract has been terminated.
- If Client wishes to migrate from subscription to perpetual based licensing at the end of the contract, Oracle will negotiate an equitable pricing model with Client to make the transition. Denovo will support these negotiations on behalf of Client.
- Project is assumed to commence on April 22 2013. Delays will likely result in delays of the proposed go-live date(s). The elapsed duration of the project could change if it is necessary to modify the launch date to comply with fiscal year or quarter end dates, or if other events force delays.
- Client will ensure that requested participation of stakeholders occurs on a timely basis and at the level requested. Denovo and Client have agreed to a maximum of a five (5) business day turnaround for submittal of specified deliverables as part of Client's responsibility for review and approvals. Delays beyond this request may result in schedule delays and cost escalation.
- The standard work week for consultants will be Monday through Thursday, 10 hour days, where exceptions will occur for holiday weeks. If Client requires a full five-day, on-site work week, travel costs could change.
- Consultants will have appropriate access to Client systems to work remotely.
- If Client is unable to meet its deadline commitments, this may result in a Change Order to reflect any increase of consultant efforts, based on the duration and extent of delays.
- Rates are inclusive of travel costs.

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Professional Services Schedule of Payments

The Denovo professional services, inclusive of travel and other miscellaneous expenses, will be invoiced based on the following project Milestones. The milestones will be invoiced when the associated deliverables have been accepted by the Client. The invoice dates are provided as estimates of the planned invoice dates. When the date is "Various", it indicates that the milestone will be invoiced on multiple days, but in amounts not to exceed the stated total. In the case of post go-live support it will be billed on a bi-weekly basis. With the Development and Enhancement milestones, each development or enhancement item will be assigned a dollar amount and billed based on progress for each item against the appropriate milestone.

Milestones	Invoice Date	Dollars
Project Initiation	5/13/2013	$ 31,104
Discovery Workshops	6/24/2013	$ 86,016
Project Governance	6/3/2013	$ 44,160
Project Team Training	6/24/2013	$ 38,400
Current Stage Review	7/15/2013	$ 134,400
Future State Defined	7/29/2013	$ 218,880
E1 Configuration	8/12/2013	$ 91,020
Test #1 - Unit Testing	8/26/2013	$ 88,320
Test # 1 -Unit Testing Rework	9/9/2013	$ 88,320
Test #2 Parallel Test A	9/23/2013	$ 88,320
Test #2 Parallel Test A - Rework	10/7/2013	$ 88,320
Test #3 Parallel Test B	10/21/2013	$ 92,370
Test #3 Parallel Test B - Rework	10/28/2013	$ 50,130
Test #4 User Acceptance Testing	11/11/2013	$ 79,920
User Training	11/18/2013	$ 48,000
Go-Live	11/25/2013	$ 68,400
Post Go-Live Support	Various	$ 137,100
Development Docs	Various	$ 275,484
Development Complete	Various	$ 406,771
Development UAT	Various	$ 137,524
Enhancement Docs	Various	$ 58,860
Enhancement Completed	Various	$ 50,610
Enhancement UAT	Various	$ 60,570

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Rate Card

The Client may engage Denovo to perform professional services on activities not within the scope of this Agreement. During the term of the agreement the following rates will apply:

Role	Hourly Rates
Functional and Project Leadership resources (off-site and local)	$ 152.00
Functional and Project leadership resources (travel included)	$ 192.00
Developers and CNC Administrators (off-site and local)	$ 135.00
Developers and CNC Administrators (travel included)	$ 175.00
Contigency for additional Statements of Work within scope of Agreement	$706,112.00

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EXHIBIT 5

Evidence of Insurance

EXHIBIT 5

EVIDENCE OF INSURANCE

This EVIDENCE OF INSURANCE ("EOI") is provided in connection with and pursuant to the provisions of the Professional Services Agreement (the "Agreement") between Denovo Ventures, LLC doing business as Denovo ("Denovo") and **Cook County, Illinois** ("Client"). Capitalized terms shall have the respective meanings assigned to such terms in the Agreement unless otherwise defined herein.

Pursuant to Article 3f of the Agreement, Denovo is providing evidence of the requested insurance which is described within the Agreement. Such services shall be provided by Denovo pursuant to the terms and conditions set forth herein and the Agreement.

Effective Date: **4/22/2013**

Delivery Period: **4/22/2013** through **4/30/2016**

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ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 03/07/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Lockton Companies, LLC 5847 San Felipe, Suite 320 Houston, TX 77057	PHONE (A/C No.Ext): 888-828-8365	FAX (A/C, No):
	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	NAIC
	INSURER A: ACE American Insurance Co	22667
INSURED Imperfly, Inc. L/C/F DENOVO VENTURES, LLC 18001 Crescent Spring Drive Kingwood, TX 77339	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$
	COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
	CLAIMS MADE ☐ OCCUR						MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
							GENERAL AGGREGATE	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS – COMP/OP AGG	$
	POLICY ☐ PRO-JECT ☐ LOC						PROFESSIONAL LIABILITY	$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ☐ NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
	UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB ☐ CLAIMS MADE						AGGREGATE	$
	DED ☐ RETENTION $							
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE Y/N	NA		C47246412	10/01/2012	10/01/2013	X WC STATU-TORY LIMITS ☐ OTH-ER	
	OFFICER/MEMBER EXCLUDED?						E.L. EACH ACCIDENT	$ 1,000,000
	(MANDATORY IN NH) If yes, describe under						E.L. DISEASE – EA EMPLOYEE	$ 1,000,000
	DESCRIPTION OF OPERATIONS below						E.L. DISEASE – POLICY LIMIT	$ 1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (Attach ACORD 101, Additional remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION
COOK COUNTY OFFICE OF COOK COUNTY CHIEF PROCUREMENT OFFICER ATTN: NICOLE LARSE, MPA 118 N. CLARK STREET, R. 1018 CHICAGO, IL 60602	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

ACORD 25 (2010/05)
Acct#: 1171340

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ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 4/1/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER: TechServe Alliance Services Corp.
1420 King Street, Suite 610
Alexandria, VA 22314

www.techservealliance.org

CONTACT NAME:
PHONE (A/C, No, Ext): 703.838.2050 FAX (A/C, No): 703.997.7727
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: OneBeacon Insurance Company	21970
INSURER B: Hartford Fire Insurance Co.	19682
INSURER C:	
INSURER D:	
INSURER E:	
INSURER F:	

INSURED:
Denovo Ventures, LLC.
28202 Cabot Road
Suite 300
Laguna Niguel CA 92677

COVERAGES CERTIFICATE NUMBER: 15921349 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY			711011900	5/1/2012	5/1/2013	EACH OCCURRENCE	$ 1,000,000
	✓ COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 300,000
	CLAIMS-MADE ✓ OCCUR						MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$ 2,000,000
	✓ POLICY PRO-JECT LOC							$
A	AUTOMOBILE LIABILITY			711011900	5/1/2012	5/1/2013	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	ANY AUTO						BODILY INJURY (Per person)	$
	✓ ALL OWNED AUTOS / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	✓ HIRED AUTOS / ✓ NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
	✓ Comprehensive Ded: $500							$
	✓ Collision Ded: $500							$
A	✓ UMBRELLA LIAB ✓ OCCUR			711011900	5/1/2012	5/1/2013	EACH OCCURRENCE	$ 5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$ 5,000,000
	DED ✓ RETENTION $ 10,000							$
								$
								$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						WC STATU-TORY LIMITS / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N ☐ N/A (Mandatory in NH)						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	E&O Claims Made			711011900	5/1/2012	5/1/2013	$5,000,000 Ea Claim/Aggregate	
B	Crime - Blanket 3rd Party			007P026360912	5/1/2012	5/1/2013	$1,000,000 Ea Occurrence	
A	Network Security & Privacy Liab			711011900	3/14/2013	5/1/2013	$1,000,000 Ea Claim/Aggregate	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

The Certificate Holder is added as Additional Insured as required by written contract.

CERTIFICATE HOLDER

Cook County
Nicole Large, MPA
Office of Cook County Chief Procurement Officer
118 N. Clark Street, R. 1018
Chicago IL 60602

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Mark B. Roberts

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CERT NO.: 15921349 CLIENT CODE: DANDEND-02 Chris Jones 4/1/2013 1:40:06 PM Page 1 of 1

EXHIBIT 6

Board Approval

ECONOMIC DISCLOSURE STATEMENT
AND EXECUTION DOCUMENT
INDEX

Section	Description	Pages
Instructions	Instructions for Completion of EDS	EDS i - ii
1	MBE/WBE Utilization Plan	EDS 1
2	Letter of Intent	EDS 2
3	Petition for Reduction/Waiver of MBE/WBE Participation Goals	EDS 3
4	Certifications	EDS 4, 5
5	Economic and Other Disclosures, Affidavit of Child Support Obligations and Disclosure of Ownership Interest	EDS 6 – 12
6	Sole Proprietor Signature Page	EDS 13a/b/c
7	Partnership Signature Page	EDS 14/a/b/c
8	Limited Liability Corporation Signature Page	EDS 15a/b/c
9	Corporation Signature Page	EDS 16a/b/c
10	Cook County Signature Page	EDS 17

INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

This Economic Disclosure Statement and Execution Document ("EDS") is to be completed and executed by every Bidder on a County contract, every party responding to a Request for Proposals or Request for Qualifications "(Proposer"), and others as required by the Chief Procurement Officer. If the Undersigned is awarded a contract pursuant to the procurement process for which this EDS was submitted (the "Contract"), this Economic Disclosure Statement and Execution Document shall stand as the Undersigned's execution of the Contract.

Definitions. Capitalized terms used in this EDS and not otherwise defined herein shall have the meanings given to such terms in the Instructions to Bidders, General Conditions, Request for Proposals, Request for Qualifications, or other documents, as applicable.

> ***"Affiliated Entity"*** means a person or entity that, directly or indirectly: controls the Bidder, is controlled by the Bidder, or is, with the Bidder, under common control of another person or entity. Indicia of control include, without limitation, interlocking management or ownership; identity of interests among family members; shared facilities and equipment; common use of employees; and organization of a business entity following the ineligibility of a business entity to do business with the County under the standards set forth in the Certifications included in this EDS, using substantially the same management, ownership or principals as the ineligible entity.
>
> ***"Bidder," "Proposer," "Undersigned,"*** or ***"Applicant,"*** is the person or entity executing this EDS. Upon award and execution of a Contract by the County, the Bidder, Proposer, Undersigned or Applicant, as the case may be, shall become the Contractor or Contracting Party.
>
> ***"Proposal,"*** for purposes of this EDS, is the Undersigned's complete response to an RFP/RFQ, or if no RFQ/RFP was issued by the County, the "Proposal" is such other proposal, quote or offer submitted by the Undersigned, and in any event a "Proposal" includes this EDS .
>
> ***"Code"*** means the Code of Ordinances, Cook County, Illinois available through the Cook County Clerk's Office website (http://www.cookctyclerk.com/sub/ordinances.asp). This page can also be accessed by going to www.cookctyclerk.com, clicking on the tab labeled "County Board Proceedings," and then clicking on the link to "Cook County Ordinances."
>
> ***"Contractor"*** or ***"Contracting Party"*** means the Bidder, Proposer or Applicant with whom the County has entered into a Contract.
>
> ***"EDS"*** means this complete Economic Disclosure Statement and Execution Document, including all sections listed in the Index and any attachments.
>
> ***"Lobby"*** or "lobbying" means to, for compensation, attempt to influence a County official or County employee with respect to any County matter.
>
> ***"Lobbyist"*** means any person or entity who lobbies.
>
> ***"Prohibited Acts"*** means any of the actions or occurrences which form the basis for disqualification under the Code, or under the Certifications hereinafter set forth.

Sections 1 through 3: MBE/WBE Documentation. Sections 1 and 2 must be completed in order to satisfy the requirements of the County's MBE/WBE Ordinance, as set forth in the Contract Documents, if applicable. If the Undersigned believes a waiver is appropriate and necessary, Section 3, the Petition for Waiver of MBE/WBE Participation must be completed.

Section 4: Certifications. Section 4 sets forth certifications that are required for contracting parties under the Code. Execution of this EDS constitutes a warranty that all the statements and certifications contained, and all the facts stated, in the Certifications are true, correct and complete as of the date of execution.

Section 5: Economic and Other Disclosures Statement. Section 5 is the County's required Economic and Other Disclosures Statement form. Execution of this EDS constitutes a warranty that all the information provided in the EDS is true, correct and complete as of the date of execution, and binds the Undersigned to the warranties, representations, agreements and acknowledgements contained therein.

INSTRUCTIONS FOR COMPLETION OF ECONOMIC DISCLOSURE STATEMENT AND EXECUTION DOCUMENT

Sections 6, 7, 8, 9: Execution Forms. The Bidder executes this EDS, and the Contract, by completing and signing three copies of the appropriate Signature Page. Section 6 is the form for a sole proprietor; Section 7 is the form for a partnership or joint venture; Section 8 is the form for a Limited Liability Corporation, and Section 9 is the form for a corporation. Proper execution requires **THREE ORIGINALS**; therefore, the appropriate Signature Page must be filled in, three copies made, and all three copies must be properly signed, notarized and submitted. The forms may be printed and completed by typing or hand writing the information required.

Required Updates. The information provided in this EDS will be kept current. In the event of any change in any information provided, including but not limited to any change which would render inaccurate or incomplete any certification or statement made in this EDS, the Undersigned will supplement this EDS up to the time the County takes action, by filing an amended EDS or such other documentation as is requested.

Additional Information. The County's Governmental Ethics and Campaign Financing Ordinances, impose certain duties and obligations on persons or entities seeking County contracts, work, business, or transactions. For further information please contact the Director of Ethics at (312) 603-4304 (69 W. Washington St. Suite 3040, Chicago, IL 60602) or visit our web-site at www.cookcountygov.com and go to the Ethics Department link. The Bidder must comply fully with the applicable ordinances.

CHICAGO
MSDC
MINORITY SUPPLIER
DEVELOPMENT COUNCIL

CHICAGO MINORITY SUPPLIER DEVELOPMENT COUNCIL

THIS CERTIFIES THAT

VIVIAN WRIGHT & ASSOCIATES

Has met the requirements for certification as a bona fide Minority Business Enterprise as defined by the National Minority Supplier Development Council, Inc. (NMSDC) and as adopted by the Chicago Minority Supplier Development Council.

****NAICS Codes: 541611, 541612, 541613, 541614, 611430**

****Description of their product/services as defined by the North American Industry Classification System (NAICS)**

Product/Service Description: TRAINING AND CHANGE MANAGEMENT CONSULTING

8/19/2012	**CH3165**
Issued Date	*Certificate Number*
8/19/2013	
Expiration Date	*President, ChicagoMSDC*

By using your assigned (through NMSDC only) password, NMSDC Corporate Members may view the original certificate by logging in at: http://www.nmsdc.org

An affiliate of the National Minority Supplier Development Council, Inc. (NMSDC)

MBE/WBE UTILIZATION PLAN (SECTION 1)

BIDDER/PROPOSER HEREBY STATES that all MBE/WBE firms included in this Plan are certified MBEs/WBEs by at least one of the entities listed in the General Conditions.

I. **BIDDER/PROPOSER MBE/WBE STATUS:** (check the appropriate line)

_____ Bidder/Proposer is a certified MBE or WBE firm. (If so, attach copy of appropriate Letter of Certification)

_____ Bidder/Proposer is a Joint Venture and one or more Joint Venture partners are certified MBEs or WBEs. (If so, attach copies of Letter(s) of Certification, a copy of Joint Venture Agreement clearly describing the role of the MBE/WBE firm(s) and its ownership interest in the Joint Venture and a completed Joint Venture Affidavit – available from the Office of Contract Compliance)

X Bidder/Proposer is not a certified MBE or WBE firm, nor a Joint Venture with MBE/WBE partners, but will utilize MBE and WBE firms either directly or indirectly in the performance of the Contract. (If so, complete Sections II and III).

II. [X] **Direct Participation of MBE/WBE Firms** [ ] **Indirect Participation of MBE/WBE Firms**

Where goals have not been achieved through direct participation, Bidder/Proposer shall include documentation outlining efforts to achieve Direct Participation at the time of Bid/Proposal submission. Indirect Participation will only be considered after all efforts to achieve Direct Participation have been exhausted. Only after written documentation of Good Faith Efforts is received will Indirect Participation be considered.

MBEs --- that will perform as subcontractors/suppliers/consultants include the following:

MBE Firm: Vivian Wright & Associates, Inc

E-mail: vivian@vwrightandassociates.com

Contact Person: Vivian Wright Phone: (870) 850-6122

Dollar Amount Participation: $

Percent Amount of Participation: 25 %

*Letter of Intent attached? Yes _____ No _____
*Letter of Certification attached? Yes _____ No _____

WBE Firm: Vivian Wright & Associates, Inc

Address: 1301 Ridgway Rd. Suite 2A, Pine Bluff, Ar 71603

E-mail: vivian@vwrightandassociates.com

Contact Person: Vivian Wright Phone: (870) 850-6122

Dollar Amount Participation: $

Percent Amount of Participation: 25 %

*Letter of Intent attached? Yes _____ No _____
*Letter of Certification attached? Yes _____ No _____

Attach additional sheets as needed.

***Additionally, all Letters of Intent, Letters of Certification and documentation of Good Faith Efforts omitted from this bid/proposal <u>must</u> be submitted to the Office of Contract Compliance so as to assure receipt by the Contract Compliance Administrator not later than three (3) business days after the Bid Opening date.**

COOK COUNTY GOVERNMENT LETTER OF INTENT (SECTION 2)

M/WBE Firm: Vivian G. Wright

Address: 1301 Ridgway Rd suite 2A

City/State: Pine Bluff Zip Arkansas

Phone: (870)- 850-6122 Fax: 870 850-0399

Email: vivian@vwrightandassociates.com

Certifying Agency: Chicago Minority Supplier Development Council & National Women Business Owners Corporation

Certification Expiration Date: CMSDC (August 29, 2013); NWBOC (December 14, 2013)

FEIN #: 71-0807910

Contact Person: Vivian G. Wright

Contract #:

Participation: [X] Direct [ ] Indirect

Will the M/WBE firm be subcontracting any of the performance of this contract to another firm?

[X] No [ ] Yes – Please attach explanation. Proposed Subcontractor: NA

The undersigned M/WBE is prepared to provide the following Commodities/Services for the above named Project/ Contract:

Indicate the **Dollar Amount**, or **Percentage**, and the **Terms of Payment** for the above-described Commodities/ Services:

25%

Net 30

(If more space is needed to fully describe M/WBE Firm's proposed scope of work and/or payment schedule, attach additional sheets)

THE UNDERSIGNED PARTIES AGREE that this Letter of Intent will become a binding Subcontract Agreement conditioned upon the Bidder/Proposer's receipt of a signed contract from the County of Cook. The Undersigned Parties do also certify that they did not affix their signatures to this document until all areas under Description of Service/ Supply and Fee/Cost were completed.

Signature (M/WBE)

Vivian G. Wright
Print Name

Vivian Wright & Associates, Inc
Firm Name

March 6, 2013
Date

Signature (Prime Bidder/Proposer)

Ronald L English
Print Name

Denno Ventures LLC
Firm Name

3/16/13
Date

Subscribed and sworn before me

this 15 day of March, 20 13

Notary Public Sherry Shults

SEAL

SHERRY SHULTS
Commission No. 12378775
NOTARY PUBLIC
Commission Expires Dec. 1, 2016
JEFFERSON CO., ARKANSAS

Subscribed and sworn before me

this 16 day of March, 20 13

Notary Public Josh Montgomery

SEAL

JOSH MONTGOMERY
Commission # 1981149
Notary Public - California
Orange County
My Comm. Expires Jun 7, 2016

EDS-

1.10.13

PETITION FOR WAIVER OF MBE/WBE PARTICIPATION (SECTION 3)

A. BIDDER/PROPOSER HEREBY REQUESTS:

☐ **FULL MBE WAIVER** ☐ **FULL WBE WAIVER**

☐ **REDUCTION (PARTIAL MBE and/or WBE PARTICIPATION)**

_____ % of Reduction for MBE Participation
_____ % of Reduction for WBE Participation

B. REASON FOR FULL/REDUCTION WAIVER REQUEST

Bidder/Proposer shall check each item applicable to its reason for a waiver request. Additionally, supporting documentation shall be submitted with this request. If such supporting documentation cannot be submitted with bid/proposal/quotation, such documentation shall be submitted directly to the Office of Contract Compliance no later than three (3) days from the date of submission date.

☐ (1) Lack of sufficient qualified MBEs and/or WBEs capable of providing the goods or services required by the contract. **(Please explain)**

☐ (2) The specifications and necessary requirements for performing the contract make it impossible or economically infeasible to divide the contract to enable the contractor to utilize MBEs and/or WBEs in accordance with the applicable participation. **(Please explain)**

☐ (3) Price(s) quoted by potential MBEs and/or WBEs are above competitive levels and increase cost of doing business and would make acceptance of such MBE and/or WBE bid economically impracticable, taking into consideration the percentage of total contract price represented by such MBE and/or WBE bid. **(Please explain)**

☐ (4) There are other relevant factors making it impossible or economically infeasible to utilize MBE and/or WBE firms. **(Please explain)**

C. GOOD FAITH EFFORTS TO OBTAIN MBE/WBE PARTICIPATION

☐ (1) Made timely written solicitation to identified MBEs and WBEs for utilization of goods and/or services; and provided MBEs and WBEs with a timely opportunity to review and obtain relevant specifications, terms and conditions of the proposal to enable MBEs and WBEs to prepare an informed response to solicitation. **(Please attach)**

☐ (2) Followed up initial solicitation of MBEs and WBEs to determine if firms are interested in doing business. **(Please attach)**

☐ (3) Advertised in a timely manner in one or more daily newspapers and/or trade publication for MBEs and WBEs for supply of goods and services. **(Please attach)**

☐ (4) Used the services and assistance of the Office of Contract Compliance staff. **(Please explain)**

☐ (5) Engaged MBEs & WBEs for indirect participation. **(Please explain)**

D. OTHER RELEVANT INFORMATION

Attach any other documentation relative to Good Faith Efforts in complying with MBE/WBE participation.

CERTIFICATIONS (SECTION 4)

THE FOLLOWING CERTIFICATIONS ARE MADE PURSUANT TO STATE LAW AND THE CODE. THE UNDERSIGNED IS CAUTIONED TO CAREFULLY READ THESE CERTIFICATIONS PRIOR TO SIGNING THE SIGNATURE PAGE. SIGNING THE SIGNATURE PAGE SHALL CONSTITUTE A WARRANTY BY THE UNDERSIGNED THAT ALL THE STATEMENTS, CERTIFICATIONS AND INFORMATION SET FORTH WITHIN THESE CERTIFICATIONS ARE TRUE, COMPLETE AND CORRECT AS OF THE DATE THE SIGNATURE PAGE IS SIGNED. THE UNDERSIGNED IS NOTIFIED THAT IF THE COUNTY LEARNS THAT ANY OF THE FOLLOWING CERTIFICATIONS WERE FALSELY MADE, THAT ANY CONTRACT ENTERED INTO WITH THE UNDERSIGNED SHALL BE SUBJECT TO TERMINATION.

A. PERSONS AND ENTITIES SUBJECT TO DISQUALIFICATION

No person or business entity shall be awarded a contract or sub-contract, for a period of five (5) years from the date of conviction or entry of a plea or admission of guilt, civil or criminal, if that person or business entity:

1) Has been convicted of an act committed, within the State of Illinois, of bribery or attempting to bribe an officer or employee of a unit of state, federal or local government or school district in the State of Illinois in that officer's or employee's official capacity;

2) Has been convicted by federal, state or local government of an act of bid-rigging or attempting to rig bids as defined in the Sherman Anti-Trust Act and Clayton Act. Act. 15 U.S.C. Section 1 *et seq.;*

3) Has been convicted of bid-rigging or attempting to rig bids under the laws of federal, state or local government;

4) Has been convicted of an act committed, within the State, of price-fixing or attempting to fix prices as defined by the Sherman Anti-Trust Act and the Clayton Act. 15 U.S.C. Section 1, *et seq.;*

5) Has been convicted of price-fixing or attempting to fix prices under the laws the State;

6) Has been convicted of defrauding or attempting to defraud any unit of state or local government or school district within the State of Illinois;

7) Has made an admission of guilt of such conduct as set forth in subsections (1) through (6) above which admission is a matter of record, whether or not such person or business entity was subject to prosecution for the offense or offenses admitted to; or

8) Has entered a plea of *nolo contendere* to charge of bribery, price-fixing, bid-rigging, or fraud, as set forth in sub-paragraphs (1) through (6) above.

In the case of bribery or attempting to bribe, a business entity may not be awarded a contract if an official, agent or employee of such business entity committed the Prohibited Act on behalf of the business entity and pursuant to the direction or authorization of an officer, director or other responsible official of the business entity, and such Prohibited Act occurred within three years prior to the award of the contract. In addition, a business entity shall be disqualified if an owner, partner or shareholder controlling, directly or indirectly, 20 % or more of the business entity, or an officer of the business entity has performed any Prohibited Act within five years prior to the award of the Contract.

THE UNDERSIGNED HEREBY CERTIFIES THAT: The Undersigned has read the provisions of Section A, Persons and Entities Subject to Disqualification, that the Undersigned has not committed any Prohibited Act set forth in Section A, and that award of the Contract to the Undersigned would not violate the provisions of such Section or of the Code.

B. BID-RIGGING OR BID ROTATING

THE UNDERSIGNED HEREBY CERTIFIES THAT: *In accordance with 720 ILCS 5/33 E-11, neither the Undersigned nor any Affiliated Entity is barred from award of this Contract as a result of a conviction for the violation of State laws prohibiting bid-rigging or bid rotating.*

C. DRUG FREE WORKPLACE ACT

THE UNDERSIGNED HEREBY CERTIFIES THAT: The Undersigned will provide a drug free workplace, as required by Public Act 86-1459 (30 ILCS 580/2-11).

D. DELINQUENCY IN PAYMENT OF TAXES

***THE UNDERSIGNED HEREBY CERTIFIES THAT**: The Undersigned is not an owner or a party responsible for the payment of any tax or fee administered by Cook County, by a local municipality, or by the Illinois Department of Revenue, which such tax or fee is delinquent, such as bar award of a contract or subcontract pursuant to the Code, Chapter 34, Section 34-129.*

E. HUMAN RIGHTS ORDINANCE

No person who is a party to a contract with Cook County ("County") shall engage in unlawful discrimination or sexual harassment against any individual in the terms or conditions of employment, credit, public accommodations, housing, or provision of County facilities, services or programs (Code Chapter 42, Section 42-30 *et seq*).

F. ILLINOIS HUMAN RIGHTS ACT

***THE UNDERSIGNED HEREBY CERTIFIES THAT:** It is in compliance with the the Illinois Human Rights Act (775 ILCS 5/2-105), and agrees to abide by the requirements of the Act as part of its contractual obligations.*

G. MACBRIDE PRINCIPLES, CODE CHAPTER 34, SECTION 34-132

If the primary contractor currently conducts business operations in Northern Ireland, or will conduct business during the projected duration of a County contract, the primary contractor shall make all reasonable and good faith efforts to conduct any such business operations in Northern Ireland in accordance with the MacBride Principles for Northern Ireland as defined in Illinois Public Act 85-1390.

H. LIVING WAGE ORDINANCE PREFERENCE (COOK COUNTY CODE, CHAPTER 34, SECTION 34-127;

The Code requires that a living wage must be paid to individuals employed by a Contractor which has a County Contract and by all subcontractors of such Contractor under a County Contract, throughout the duration of such County Contract. The amount of such living wage is determined from time to time by, and is available from, the Chief Financial Officer of the County.

For purposes of this EDS Section 4, H, "Contract" means any written agreement whereby the County is committed to or does expend funds in connection with the agreement or subcontract thereof. The term "Contract" as used in this EDS, Section 4, I, specifically excludes contracts with the following:

1) Not-For Profit Organizations (defined as a corporation having tax exempt status under Section 501(C)(3) of the United State Internal Revenue Code and recognized under the Illinois State not-for -profit law);

2) Community Development Block Grants;

3) Cook County Works Department;

4) Sheriff's Work Alternative Program; and

5) Department of Correction inmates.

REQUIRED DISCLOSURES (SECTION 5)

1. DISCLOSURE OF LOBBYIST CONTACTS

List all persons or entities that have made lobbying contacts on your behalf with respect to this contract:

Name Address

_____

_____

_____

2. LOCAL BUSINESS PREFERENCE DISCLOSURE; CODE, CHAPTER 34, SECTION 34-151(p);

"Local Business" shall mean a person authorized to transact business in this State and having a bona fide establishment for transacting business located within Cook County at which it was actually transacting business on the date when any competitive solicitation for a public contract is first advertised or announced and further which employs the majority of its regular, full time work force within Cook County, including a foreign corporation duly authorized to transact business in this State and which has a bona fide establishment for transacting business located within Cook County at which it was actually transacting business on the date when any competitive solicitation for a public contract is first advertised or announced and further which employs the majority of its regular, full time work force within Cook County.

a) Is Bidder a "Local Business" as defined above?

Yes:_____ No:____X____

b) If yes, list business addresses within Cook County:

_____

_____

_____

c) Does Bidder employ the majority of its regular full-time workforce within Cook County?

Yes:_____ No:____X____

3. THE CHILD SUPPORT ENFORCEMENT ORDINANCE (PREFERENCE (CODE, CHAPTER 34, SECTION 34-366)

Every Applicant for a County Privilege shall be in full compliance with any child support order before such Applicant is entitled to receive or renew a County Privilege. When delinquent child support exists, the County shall not issue or renew any County Privilege, and may revoke any County Privilege.

All Applicants are required to review the Cook County Affidavit of Child Support Obligations attached to this EDS (EDS-8) and complete the following, based upon the definitions and other information included in such Affidavit.

4. REAL ESTATE OWNERSHIP DISCLOSURES.

The Undersigned must indicate by checking the appropriate provision below and providing all required information that either:

a) The following is a complete list of all real estate owned by the Undersigned in Cook County:

PERMANENT INDEX NUMBER(S): _____

_____

_____

(ATTACH SHEET IF NECESSARY TO LIST ADDITIONAL INDEX NUMBERS)

OR:

b) ___X___ The Undersigned owns no real estate in Cook County.

5. EXCEPTIONS TO CERTIFICATIONS OR DISCLOSURES.

If the Undersigned is unable to certify to any of the Certifications or any other statements contained in this EDS and not explained elsewhere in this EDS, the Undersigned must explain below:

_____

_____

If the letters, "NA", the word "None" or "No Response" appears above, or if the space is left blank, it will be conclusively presumed that the Undersigned certified to all Certifications and other statements contained in this EDS.

COOK COUNTY DISCLOSURE OF OWNERSHIP INTEREST STATEMENT

The Cook County Code of Ordinances (§2-610 *et seq.*) requires that any Applicant for any County Action must disclose information concerning ownership interests in the Applicant. This Disclosure of Ownership Interest Statement must be completed with all information current as of the date this Statement is signed. Furthermore, this Statement must be kept current, by filing an amended Statement, until such time as the County Board or County Agency shall take action on the application. The information contained in this Statement will be maintained in a database and made available for public viewing.

If you are asked to list names, but there are no applicable names to list, you must state NONE. An incomplete Statement will be returned and any action regarding this contract will be delayed. A failure to fully comply with the ordinance may result in the action taken by the County Board or County Agency being voided.

"Applicant" means any Entity or person making an application to the County for any County Action.

"County Action" means any action by a County Agency, a County Department, or the County Board regarding an ordinance or ordinance amendment, a County Board approval, or other County agency approval, with respect to contracts, leases, or sale or purchase of real estate.

"Entity" or *"Legal Entity"* means a sole proprietorship, corporation, partnership, association, business trust, estate, two or more persons having a joint or common interest, trustee of a land trust, other commercial or legal entity or any beneficiary or beneficiaries thereof.

This Disclosure of Ownership Interest Statement must be submitted by :

1. An Applicant for County Action and

2. An individual or Legal Entity that holds stock or a beneficial interest in the Applicant and is listed on the Applicant's Statement (a "Holder") must file a Statement and complete #1 only under **Ownership Interest Declaration**.

Please print or type responses clearly and legibly. Add additional pages if needed, being careful to identify each portion of the form to which each additional page refers.

This Statement is being made by the [X] Applicant or [ ] Stock/Beneficial Interest Holder

This Statement is an: [X] Original Statement or [ ] Amended Statement

Identifying Information:

Name Denovo Ventures, LLC D/B/A: Denovo EIN NO.: 51-0453048

Street Address: 6328 Monarch Park Place

City: Niwot State: CO Zip Code: 80503

Phone No.:

Form of Legal Entity:

[ ] Sole Proprietor [ ] Partnership [ ] Corporation [ ] Trustee of Land Trust

[ ] Business Trust [ ] Estate [ ] Association [ ] Joint Venture

[X] Other (describe) Limited Liability Company

Ownership Interest Declaration:

1. List the name(s), address, and percent ownership of each individual and each Entity having a legal or beneficial interest (including ownership) of more than five percent (5%) in the Applicant/Holder.

Name	Address	Percentage Interest in Applicant/Holder
Ronald E English	19 Emerald Glen, Laguna Niguel, CA 92677	25%
Edward N. Myers	9 Wagon Lane, Rolling Hills, CA 90274	25%
~~Mark C. Goedde~~	~~7326 N. 115th St., Longmont, CO 80504~~	~~20%~~
William J. Hylton	1354 Lake Hollow Dr., Defiance, MO 53341	15%
Paul D. McNulty	22145 Bande, Mission Viejo, CA 92691	15%

2. If the interest of any individual or any Entity listed in (1) above is held as an agent or agents, or a nominee or nominees, list the name and address of the principal on whose behalf the interest is held.

Name of Agent/Nominee	Name of Principal	Principal's Address

3. Is the Applicant constructively controlled by another person or Legal Entity? [ ] Yes [X] No

If yes, state the name, address and percentage of beneficial interest of such person or legal entity, and the relationship under which such control is being or may be exercised.

Name	Address	Percentage of Beneficial Interest	Relationship

Declaration (check the applicable box):

[X] I state under oath that the Applicant has withheld no disclosure as to ownership interest in the Applicant nor eserved any information, data or plan as to the intended use or purpose for which the Applicant seeks County Board or other County Agency action.

[X] I state under oath that the Holder has withheld no disclosure as to ownership interest nor reserved any information required to be disclosed.

Ronald E. English
Name of Authorized Applicant/Holder Representative (please print or type)

CEO
Title

Signature

3/16/13
Date

renglish@denovo-us.com
E-mail address

949.365.5835
Phone Number

Subscribed to and sworn before me
this 16 day of March 2013

My commission expires:

X
Notary Public Signature

JOSH MONTGOMERY
Commission # 1981149
Notary Public - California
Orange County
My Comm. Expires Jun 7, 2016
Notary Seal

COOK COUNTY BOARD OF ETHICS
69 W. WASHINGTON STREET, SUITE 3040
CHICAGO, ILLINOIS 60602
312/603-4304
312/603-9988 FAX 312/603-1011 TT/TDD

FAMILIAL RELATIONSHIP DISCLOSURE PROVISION:

Section 2-582 of the Cook County Ethics Ordinance requires any person or persons doing business with Cook County, upon execution of a contract with Cook County, to disclose to the Cook County Board of Ethics the existence of familial relationships they may have with all persons holding elective office in the State of Illinois, the County of Cook, or in any municipality within the County of Cook.

The disclosure required by this section shall be filed by January 1 of each calendar year or within thirty (30) days of the execution of any contract or lease. Any person filing a late disclosure statement after January 31 shall be assessed a late filing fee of $100.00 per day that the disclosure is late. Any person found guilty of violating any provision of this section or knowingly filing a false, misleading, or incomplete disclosure to the Cook County Board of Ethics shall be prohibited, for a period of three (3) years, from engaging, directly or indirectly, in any business with Cook County. *Note*: Please see Chapter 2 Administration, Article VII Ethics, Section 2-582 of the Cook County Code to view the full provisions of this section.

If you have questions concerning this disclosure requirement, please call the Cook County Board of Ethics at (312) 603-4304. *Note*: A current list of contractors doing business with Cook County is available via the Cook County Board of Ethics' website at: **http://www.cookcountygov.com/taxonomy/ethics/Listings/cc_ethics_VendorList_.pdf**

DEFINITIONS:

"*Calendar year*" means January 1 to December 31 of each year.

"*Doing business*" for this Ordinance provision means any one or any combination of leases, contracts, or purchases to or with Cook County or any Cook County agency in excess of $25,000 in any calendar year.

"*Familial relationship*" means a person who is related to an official or employee as spouse or any of the following, whether by blood, marriage or adoption:

- Parent
- Child
- Brother
- Sister
- Aunt
- Uncle
- Niece
- Nephew
- Grandparent
- Grandchild
- Father-in-law
- Mother-in-law
- Son-in-law
- Daughter-in-law
- Brother-in-law
- Sister-in-law
- Stepfather
- Stepmother
- Stepson
- Stepdaughter
- Stepbrother
- Stepsister
- Half-brother
- Half-sister

"*Person*" means any individual, entity, corporation, partnership, firm, association, union, trust, estate, as well as any parent or subsidiary of any of the foregoing, and whether or not operated for profit.

SWORN FAMILIAL RELATIONSHIP DISCLOSURE FORM

Pursuant to Section 2-582 of the Cook County Ethics Ordinance, any *person* doing business** with Cook County must disclose, to the Cook County Board of Ethics, the existence of *familial relationships** to any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County. Please print your responses.

Name of Owner/Employee: Ronald E. English Title: CEO

Business Entity Name: Denovo Ventures, LLC Phone: 949.365.5835

Business Entity Address: 6328 Monarch Park Place, Niwot, CO 80503

_____ The following familial relationship exists between the owner or any employee of the business entity contracted to do business with Cook County ***and*** any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County.

	Owner/Employee Name:	Related to:	Relationship:
1.			
2.			
3.			
4.			
5.			

If more space is needed, attach an additional sheet following the above format.

X There is ***no*** familial relationship that exists between the owner or any employee of the business entity contracted to do business with Cook County and any person holding elective office in the State of Illinois, Cook County, or in any municipality within Cook County.

To the best of my knowledge and belief, the information provided above is true and complete.

Owner/Employee's Signature 3/16/13 Date

Subscribe and sworn before me this 16 Day of March, 2013

a Notary Public in and for Orange County

(Signature)

NOTARY PUBLIC SEAL

JOSH MONTGOMERY
Commission # 1981149
Notary Public - California
Orange County
My Comm. Expires Jun 7, 2016

My Commission expires June 7, 2016

Completed forms must be filed within 30 days of the execution of any contract or lease with Cook County and should be mailed to:

Cook County Board of Ethics
69 West Washington Street,
Suite 3040
Chicago, Illinois 60602

SIGNATURE BY A SOLE PROPRIETOR
(SECTION 6)

The Undersigned hereby certifies and warrants: that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

FEIN/SSN:_____

COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SOLE PROPRIETOR'S SIGNATURE: _____

PRINT NAME: _____

DATE: _____

Subscribed to and sworn before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

SIGNATURE BY A SOLE PROPRIETOR
(SECTION 6)

The Undersigned hereby certifies and warrants: that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

FEIN/SSN:_____

COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SOLE PROPRIETOR'S SIGNATURE: _____

PRINT NAME: _____

DATE: _____

Subscribed to and sworn before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

SIGNATURE BY A SOLE PROPRIETOR
(SECTION 6)

The Undersigned hereby certifies and warrants: that all of the statements, certifications and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

FEIN/SSN:_____

COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SOLE PROPRIETOR'S SIGNATURE: _____

PRINT NAME: _____

DATE: _____

Subscribed to and sworn before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

SIGNATURE BY A PARTNERSHIP (AND/OR A JOINT VENTURE)
(SECTION 7)

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege. .

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____ FEIN/SSN:_____

*COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SIGNATURE OF PARTNER AUTHORIZED TO EXECUTE CONTRACTS ON BEHALF OF PARTNERSHIP:

*BY: _____

Date:_____

Subscribed to and swom before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **Attach hereto a partnership resolution or other document authorizing the individual signing this Signature Page to so sign on behalf of the Partnership.**

SIGNATURE BY A PARTNERSHIP (AND/OR A JOINT VENTURE)
(SECTION 7)

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege. .

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____ FEIN/SSN:_____

*COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SIGNATURE OF PARTNER AUTHORIZED TO EXECUTE CONTRACTS ON BEHALF OF PARTNERSHIP:

*BY: _____

Date:_____

Subscribed to and sworn before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **Attach hereto a partnership resolution or other document authorizing the individual signing this Signature Page to so sign on behalf of the Partnership.**

SIGNATURE BY A PARTNERSHIP (AND/OR A JOINT VENTURE)
(SECTION 7)

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BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____ FEIN/SSN:_____

*COOK COUNTY BUSINESS REGISTRATION NUMBER:_____

SIGNATURE OF PARTNER AUTHORIZED TO EXECUTE CONTRACTS ON BEHALF OF PARTNERSHIP:

*BY: _____

Date:_____

Subscribed to and sworn before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **Attach hereto a partnership resolution or other document authorizing the individual signing this Signature Page to so sign on behalf of the Partnership.**

SIGNATURE BY A LIMITED LIABILITY CORPORATION
(SECTION 8)

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Procurement Director in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME: Denovo Ventures, LLC

BUSINESS ADDRESS: 6328 Monarch Park Place, Niwot, CO 80503

BUSINESS TELEPHONE: 800 443 6683 FAX NUMBER: 949 365 5836

CONTACT PERSON: Ronald E. English

FEIN: 51 - 0453048 * CORPORATE FILE NUMBER:

MANAGING MEMBER: Ronald E. English MANAGING MEMBER:

**SIGNATURE OF MANAGER: Ronald E English

ATTEST: Sr. Dir. Public Sector

Subscribed and sworn to before me this

19th day of March, 2013.

X Notary Public Signature

OFFICIAL SEAL
ERWIN TOLENTINO
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:12/27/15

Notary Seal

* **If the LLC is not registered in the State of Illinois, a copy of a current Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.**

** **Attach either a certified copy of the by-laws, articles, resolution or other authorization demonstrating such persons to sign the Signature Page on behalf of the LLC.**

OFFICE OF THE SECRETARY OF STATE
OF THE STATE OF COLORADO

CERTIFICATE

I, Scott Gessler, as the Secretary of State of the State of Colorado, hereby certify that, according to the records of this office,

Denovo Ventures, LLC

is a **Limited Liability Company** formed or registered on 02/27/2003 under the law of Colorado, has complied with all applicable requirements of this office, and is in good standing with this office. This entity has been assigned entity identification number 20031065189.

This certificate reflects facts established or disclosed by documents delivered to this office on paper through 03/15/2013 that have been posted, and by documents delivered to this office electronically through 03/18/2013 @ 16:48:38.

I have affixed hereto the Great Seal of the State of Colorado and duly generated, executed, authenticated, issued, delivered and communicated this official certificate at Denver, Colorado on 03/18/2013 @ 16:48:38 pursuant to and in accordance with applicable law. This certificate is assigned Confirmation Number 8490639.

Secretary of State of the State of Colorado

**********End of Certificate**********

Notice: A certificate issued electronically from the Colorado Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Confirmation Page of the Secretary of State's Web site, http://www.sos.state.co.us/biz/CertificateSearchCriteria.do entering the certificate's confirmation number displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate. For more information, visit our Web site, http://www.sos.state.co.us/ click Business Center and select "Frequently Asked Questions."

Member Resolution

Pursuant to the operating agreement of Denovo Ventures, LLC, an LLC organized under the laws of the State of Colorado, the undersigned, constituting a majority of the members do hereby resolve and consent in lieu of formal meeting to the following action:

- Authorize Ronald E. English, Managing Member, to execute on behalf of Denovo, the Cook County, IL Economic Disclosure Statements and other such documents as are necessary to execute a Master Services Agreement between the parties.

All members hereby waive notice and meeting with regard to the above action. This resolution shall have the same force and effect as a vote of the LLC members.

William Hylton	**Paul McNulty**	**Mark Goedde**
William J. Hylton	Paul McNulty	Mark C. Goedde
Dated: 3/18/13	Dated: 3/18/13	Dated: 3/18/13
Edward Myers	**Ronald English**	
Not Available	Ronald E. English	
Dated: 3/18/13	Dated: 3/18/13	

SIGNATURE BY A CORPORATION
(SECTION 9)

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____

FEIN:_____ *IL CORPORATE FILE NUMBER:_____

LIST THE FOLLOWING CORPORATE OFFICERS:

PRESIDENT:_____ VICE PRESIDENT:_____

SECRETARY:_____ TREASURER:_____

****SIGNATURE OF PRESIDENT**: _____

ATTEST: _____**(CORPORATE SECRETARY)**

Subscribed and sworn to before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.**

** **In the event that this Signature Page is signed by any persons than the President and Secretary, attach either a certified copy of the corporate by-laws, resolution or other authorization by the corporation, authorizing such persons to sign the Signature Page on behalf of the corporation.**

SIGNATURE BY A CORPORATION
(SECTION 9)

The Undersigned hereby certifies and warrants: that all of the statements, certifications, and representations set forth in this EDS are true, complete and correct; that the Undersigned is in full compliance and will continue to be in compliance throughout the term of the Contract or County Privilege issued to the Undersigned with all the policies and requirements set forth in this EDS; and that all of the facts and information provided by the Undersigned in this EDS are true, complete and correct. The Undersigned agrees to inform the Chief Procurement Officer in writing if any of such statements, certifications, representations, facts or information becomes or is found to be untrue, incomplete or incorrect during the term of the Contract or County Privilege.

BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____

FEIN:_____ *IL CORPORATE FILE NUMBER:_____

LIST THE FOLLOWING CORPORATE OFFICERS:

PRESIDENT:_____ VICE PRESIDENT:_____

SECRETARY:_____ TREASURER:_____

****SIGNATURE OF PRESIDENT:** _____

ATTEST: _____**(CORPORATE SECRETARY)**

Subscribed and sworn to before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.**

** **In the event that this Signature Page is signed by any persons than the President and Secretary, attach either a certified copy of the corporate by-laws, resolution or other authorization by the corporation, authorizing such persons to sign the Signature Page on behalf of the corporation.**

SIGNATURE BY A CORPORATION
(SECTION 9)

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BUSINESS NAME:_____

BUSINESS ADDRESS:_____

_____

BUSINESS TELEPHONE:_____ FAX NUMBER:_____

CONTACT PERSON:_____

FEIN:_____ *IL CORPORATE FILE NUMBER:_____

LIST THE FOLLOWING CORPORATE OFFICERS:

PRESIDENT:_____ VICE PRESIDENT:_____

SECRETARY:_____ TREASURER:_____

****SIGNATURE OF PRESIDENT**: _____

ATTEST: _____**(CORPORATE SECRETARY)**

Subscribed and sworn to before me this

_____ day of _____, 20___.

My commission expires:

X_____ _____

Notary Public Signature Notary Seal

* **If the corporation is not registered in the State of Illinois, a copy of the Certificate of Good Standing from the state of incorporation must be submitted with this Signature Page.**

** **In the event that this Signature Page is signed by any persons than the President and Secretary, attach either a certified copy of the corporate by-laws, resolution or other authorization by the corporation, authorizing such persons to sign the Signature Page on behalf of the corporation.**

COOK COUNTY SIGNATURE PAGE
(SECTION 10)

ON BEHALF OF THE COUNTY OF COOK, A BODY POLITIC AND CORPORATE OF THE STATE OF ILLINOIS, THIS CONTRACT IS HEREBY EXECUTED BY:

Sam E.M

COOK COUNTY CHIEF PROCUREMENT OFFICER

DATED AT CHICAGO, ILLINOIS THIS 24 DAY OF April, 20 13

IN THE CASE OF A BID PROPOSAL, THE COUNTY HEREBY ACCEPTS:

THE FOREGOING BID/PROPOSAL AS IDENTIFIED IN THE CONTRACT DOCUMENTS FOR CONTRACT NUMBER

1390-12608

OR

ITEM(S), SECTION(S), PART(S): _____

TOTAL AMOUNT OF CONTRACT: $ 6,474,356.00
(DOLLARS AND CENTS)

FUND CHARGEABLE: _____

APPROVED AS TO FORM:

ASSISTANT STATE'S ATTORNEY
(Required on contracts over $1,000,000.00)

APPROVED BY BOARD OF
COOK COUNTY COMMISSIONERS

APR 17 2013

COM _____