Nebraska Public Power District
Nebraska's Energy Leader

NLS2002013
February 6, 2002

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Gentlemen:

Subject: Transmittal of Project Plan for CNS Environmental Qualification Improvement Project
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

Reference: Letter to D. Wilson (Nebraska Public Power District) from K. Brockman (U. S. Nuclear Regulatory Commission), dated December 28, 2001, "Response to NRC Notice of Violation (NRC Inspection Report 50-298/00-07) (Cooper Nuclear Station)"

The purpose of this letter is to provide the Nuclear Regulatory Commission (NRC) with the enclosed copy of the Environmental Qualification Improvement Project (EQIP), as requested in the referenced letter. The enclosure has been redacted per 10CFR2.790(a)(4) and (6) to remove Sections 7 and 10, and Appendix A. This information, which relates to EQIP personnel names and financial data, is available for review onsite, as desired. Per telecon between Messrs. D. Kunsemiller (Nebraska Public Power District) and K. Kennedy (NRC), the submittal due date was extended to February 6, 2002.

Progress has been made in the performance of the EQIP. During the recent refueling outage, over 800 EQ configurations were field verified, with discrepancies resolved prior to restart. A plant modification was implemented which upgraded the Safety Relief Valve solenoid cabling and installed quick disconnects. The EQIP is approximately 30 percent complete.

A001

Cooper Nuclear Station
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Should you have any questions regarding this matter, please contact David F. Kunsemiller at (402) 825-5236.

Sincerely,

David L. Wilson
Vice President of Nuclear Energy

/wrv

Enclosure

cc: Regional Administrator w/enclosure
USNRC Region IV

Senior Project Manager w/enclosure
USNRC - NRR Project Directorate IV-1

Senior Resident Inspector w/enclosure
USNRC

NPG Distribution w/o enclosure

Records w/ enclosure

ENCLOSURE

Cooper Nuclear Station Environmental Qualification (EQ) Improvement Project Project Plan

w/o Section 7- Project Cost Management Plan
w/o Section 10- Project Resource Management
w/o Appendix A- Original Project Charter

Nebraska Public Power District

Nebraska's Energy Leader

Cooper Nuclear Station
Environmental Qualification (EQ) Improvement Project

PROJECT PLAN

Revision 1

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

The Project Plan for the CNS Environmental Qualification Improvement Project defines the scope and enhancements required to restore integrity to the EQ Program and to implement a fully integrated site-wide EQ Program. It is essential to align these activities throughout the site functional areas in order to achieve the objectives of the project. CNS is committed to an effective EQ Program. The following people have reviewed this plan and concur with the objectives and approach contained herein:

Ted Hough – CNS Project Manager	1-30-02 Date
Carl Markert – ESD Manager	1-30-02 Date
Kevin Jones – DED Manager	1/31/02 Date
Bob Gibson – Nuclear Projects Manager	1-30-02 Date
Jerry Ranalli – Senior Manager of Engineering / Project Sponsor	REVIEWED AND APPROVED BY GUY HORN PER TELECON 13:15 1/31/2002 1/31/2002 Date
Paul Caudill – General Manager Engineering & Technical Services	Jerome A Ranalli FOR PAUL CAUDILL PER TELEPHONE CONFERENCE CALL @ 9:50 1/31/2002 1/31/2002 Date
Jim Hutton – Plant Manager	1/31/02 Date
for Dave Wilson – Vice President Nuclear and Chief Nuclear Officer	M T. Casey 1/31/02 Date

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

REVISION SUMMARY

Revision Number	Date	Description of Change	Affected Section/Page
0	7/30/01	Initial Issue. Supercedes the Project Plan for the EQ Recovery Project (Rev. 0 dated 10/4/00).	All
1		Revised to reflect commitment to complete the EQ Improvement Project by June 30, 2003, as described in the NPPD response to IR 00-07 (NLS2001104, dated 11/8/01) To specifically include the corrective actions to preclude the recurrence of the conditions, which lead to the IR 00-07 Notice of Violation, in the scope of the EQ Improvement Project. Updated Project Organization Chart and other minor editorial changes. Updated Project Milestones and provided a schedule for the milestones. Incorporate recommendations from the EQ Program Interface Assessment. Project Scope Changes Including: 1) The development of EQ Configuration Detail Drawings to clearly communicate the applicable EQ design, configuration, and maintenance requirements. Typically used when multiple EQDP's are used to establish qualification of a functional location. 2) A review to confirm consistency between EQ documentation and SAP / MasterData. 3) Enhancement of Maintenance Department procedures to make them more understandable by the people who use them. 4) Addition of a benchmarking trip. 5) Handling of Emergent Issues, Testing and minor plant modifications. Updated Cost Estimate/Budget for WBS. Changed Appendix A title to "Original Project Charter." Deleted Appendix D: 10CFR50.49 Equipment Qualification Assessment Report Deleted reference to Appendix D in Section 1. Deleted Appendix E: Winston & Strawn Report (Sept 2000 Review of CNS EQ Program) Deleted reference to Appendix E in Section 1.	All

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

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PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

1.0 INTRODUCTION

The primary objective of the EQ Improvement Project (EQIP) is to verify that the CNS EQ Program:

- Is verified to be in full compliance with 10CFR50.49
- Is consistent with the CNS design and licensing basis.
- Has resolved applicable EQ related issues identified in SCRs 2000-0330, 2000-0386 & 2000-0423.
- Has implemented immediate and long-term corrective actions identified in the response to the IR 00-07 Notice of Violation (NOV).
- Is implemented and maintained as a site wide program.

A number of qualification issues and programmatic weaknesses have been identified as a result of Significant Condition Reports (SCR) 2000-0330, 2000-0386, 2000-0423, License Event Report (LER) 2000-008, NRC Inspection Report (IR) 00-07, and extent of condition reviews and assessments. The CNS EQ Program is being totally re-evaluated to verify full compliance with 10CFR50.49. During the implementation of the EQ Improvement Project, additional qualification discrepancies may be identified. These discrepancies will be entered into the corrective action program and evaluated for impact on operability using the guidance in NRC Generic Letter 91-18 as necessary.

The EQ Improvement Project is scheduled to be completed by June 30, 2003. This date is a commitment date to the NRC as described in the NPPD response to the Notice of Violations from Inspection Report 00-07. Verification activities, that evaluate various program elements against the requirements of 10CFR50.49, will be completed by November 30, 2002.

The Project Manager for the EQIP has the overall responsibility for successful implementation of the project. Accordingly, the Project Manager will be held accountable for the following attributes:

- Project is implemented in accordance with 0-CNS-18 and 0-CNS-20.
- Maintaining costs within the authorized budget for the project.
- Implementing the project within the approved schedule, commitments and milestones.
- Ensuring that project personnel are adequately trained/qualified to perform their assigned tasks.
- Establishing and maintaining the project file.

- Ensuring that changes to EQ Program documentation, programmatic controls and interfaces comply or are consistent with applicable codes and standards.
- Providing supplemental guidance to project personnel via Project Instructions or Position Papers where necessary.
- Ensuring that costs for contracted services are compliant with the applicable purchase order or agreement prior to payment.
- Providing periodic project status reports and updates to station management.

2.0 EQ PROGRAM OVERVIEW

The CNS EQ Program is a regulatory requirement under 10CFR50.49. Environmental Qualification is the process of generating, documenting, and maintaining objective evidence that electrical equipment, required to be qualified in accordance with 10CFR50.49, can perform its post-accident function in a harsh environment throughout the installed life of the equipment. As such, EQ is a design verification activity to demonstrate that the equipment is capable of performing the essential safety function(s) when exposed to the harsh environmental conditions resulting from a Loss of Coolant Accident (LOCA) or High Energy Line Break (HELB).

The EQ Program at CNS is a site wide engineering program. Although the Engineering Support Department (ESD) is responsible for the overall implementation of the program, there are a number of departments, which participate in the preservation of the program. Procedure 0.20 currently defines the duties and interrelationships of the various departments, which have responsibilities for implementing and maintaining the EQ Program. Figure 2-1 presents the various participants in the EQ Program.

The purpose of the EQ Program is to ensure that the qualified status of EQ equipment and components is maintained over the life of the station. This is accomplished by integrating the programmatic controls into site processes and procedures to ensure that:

1) Program documentation is maintained current with the CNS design & licensing basis.
2) The basis for qualification is documented in an auditable manner and reflects the "as-built" configuration of the plant.
3) EQ maintenance, replacement, and surveillance activities are performed as required, to maintain the qualified status.
4) Replacement equipment and components are procured consistent with the qualification basis established in the EQDP(s).
5) Training, oversight and self-assessments are performed to ensure effective program implementation.

The three fundamental elements of the CNS EQ Program involve Design Input, Design Verification, and Program Implementation. The effectiveness of these three program elements is essential to ensure the integrity of the EQ Program. Figure 2-2 documents the content and relationships of these fundamental program elements.

The Design Input element provides the information that is needed before EQ can be established for specific plant applications. This element defines the equipment and components which are required to be qualified, the equipment performance requirements which are to be verified, and the service conditions and operating time for which the equipment must function. Design input to the EQ Program is developed by evaluating the USAR, safety analysis, design criteria, calculations, drawings, operating procedures and regulatory correspondence.

The Design Verification element of the EQ Program involves those activities necessary to establish that the equipment is environmentally qualified for the required safety functions and service conditions. Methods to establish qualification include testing, analysis, operating experience, on-going qualification, or a combination of these methods to document that the equipment meets the specified performance requirements if exposed to harsh accident conditions. The qualification basis is documented in an Environmental Qualification Documentation Package (EQDP) and includes the identification of EQ critical installation, configuration, operation, maintenance, replacement, and procurement activities necessary to establish and maintain the qualified status.

The Program Implementation element begins after qualification has been established. This element provides the translation of EQ requirements via programmatic controls to ensure that qualified status of the equipment is maintained over the life of the station. To preserve qualification, the EQ Program must ensure:

1) The requirements and limitations in the EQDP are properly implemented
2) The applicable design and configuration changes reflect EQ requirements
3) EQ documentation is maintained current with the plant design basis, licensing basis and the installed configuration

The Program Implementation element is heavily dependent on having effective Configuration Management/Program Interfaces, Corrective Action, Operating Experience, Work Control and Training programs.

TECHNICAL ACCEPTANCE CRITERIA

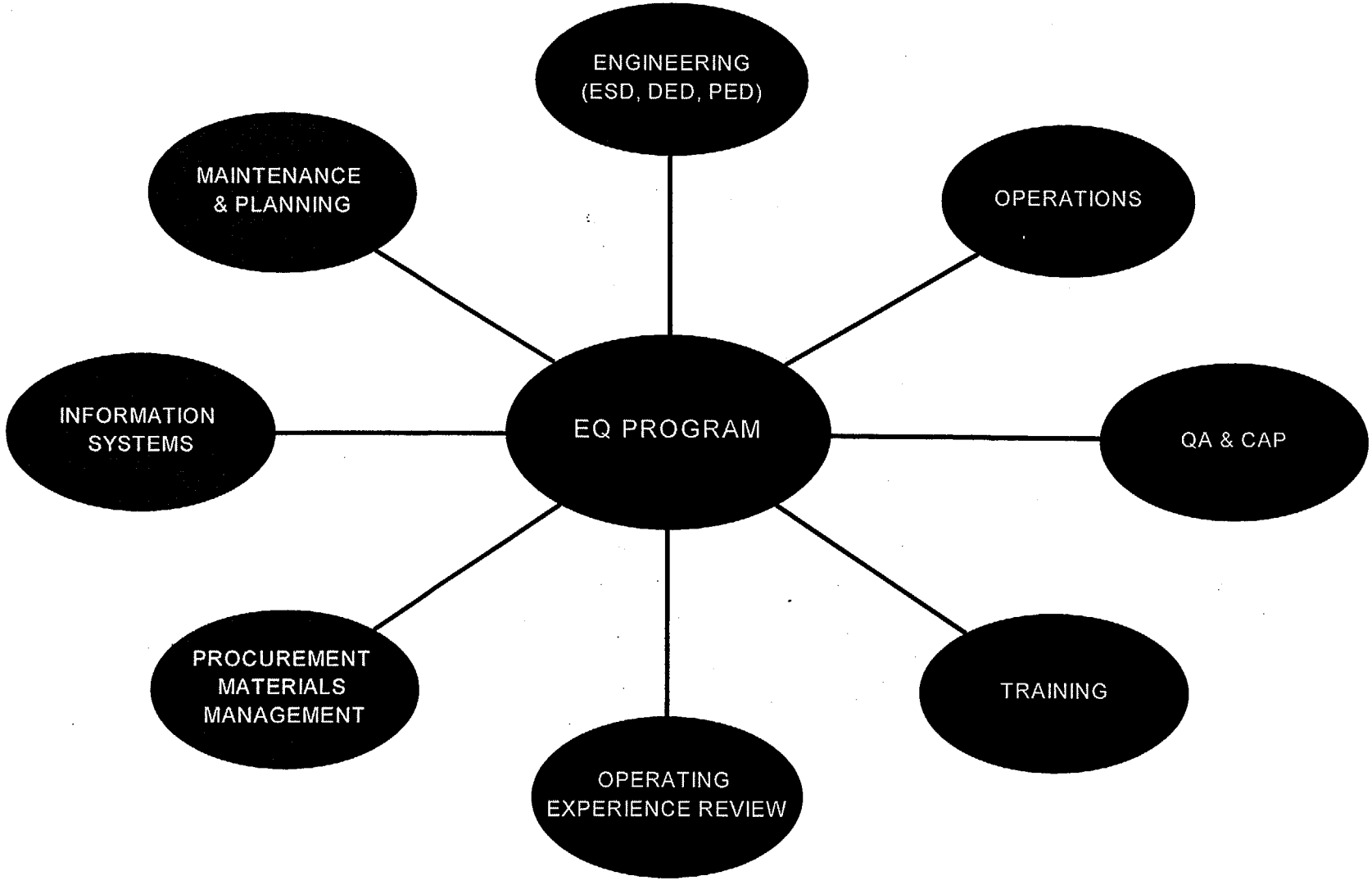
The principal codes and standards to be followed during the implementation of the EQ Improvement Project are provided below. These documents provide the regulatory and technical framework to which changes and improvements to the CNS EQ Program will be implemented.

- 10CFR50.49
- RG 1.89
- RG 1.97
- CLI 80-21 (Commission Memorandum and Order)
- NUREG 0588
- DOR Guidelines (Enclosure 4 to IEB 79-01B)
- NRC GL 91-18
- NRC IN 85-39
- IEEE 323-71
- IEEE 323-74 (including applicable daughter standards)
- EPRI TR-100516 (EQ Reference Manual)
- IAEA Safety Report, Equipment Qualification in Operational Nuclear Power Plants: Upgrading, Preserving and Reviewing, Vienna, 1998, Safety Report Series No.3.

The Project Manager is responsible to ensure that changes to EQ Program documentation, programmatic controls and interfaces comply or are consistent with the above codes and standards. In situations where additional guidance or interpretation is needed, the Project Manager shall ensure such guidance is documented in the form of an EQ Project Position Paper or Project Instruction.

The acceptance criteria for Project Deliverables (interim and final) is compliance with the applicable codes and standards described above, project position papers and/or project instructions.

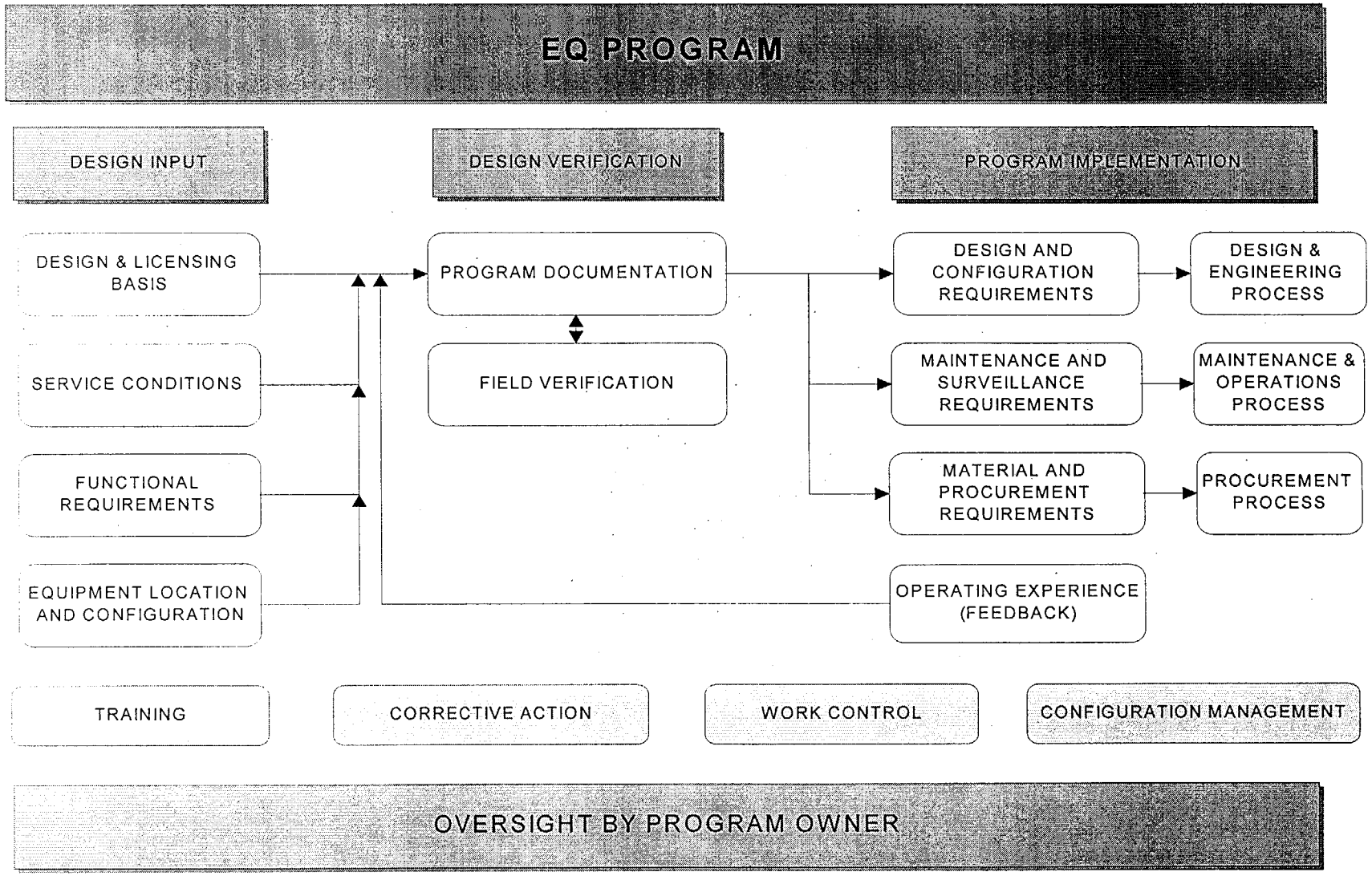
PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT
Figure 2-1
Typical Interfaces with the EQ Program



PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

Figure 2-2

Fundamental Elements of the EQ Program



3.0 PROJECT OBJECTIVES

The primary objective of the EQ Improvement Project (EQIP) is to verify that the CNS EQ Program:

- Is verified to be in full compliance with 10CFR50.49
- Is consistent with the CNS design and licensing basis.
- Has resolved applicable EQ related issues identified in SCRs 2000-0330, 2000-0386 & 2000-0423.
- Has implemented immediate and long-term corrective actions identified in the response to the IR 00-07 Notice of Violation (NOV).
- Is implemented and maintained as a site wide program.

In addition to the primary objectives, the following objectives will be implemented:

- Validation/reconstitution of CNS design basis for environmental conditions used as design inputs into the EQ Program.

- Enhance the technical quality, content, auditability, and maintainability of EQ Program documentation.

- Establish EQ as a site wide program by ensuring that the EQ Program has identified, described, documented and proceduralized program interfaces and interface responsibilities.

- Clearly define the EQ Program requirements related to design/configuration control, maintenance, planning, operations, corrective action and procurement.

- Strengthen and clarify EQ Program requirements contained in site processes and procedures to ensure that the qualified status of equipment is maintained. These programmatic controls will be integrated into existing plant processes whenever possible.

- Develop task specific EQ training for EQ staff and site personnel.

- Perform field verification of selected EQ equipment.

- Establish a program that upon completion of this project requires minimal staffing to implement and maintain.

- Account for the effects of increasing maximum service water temperature to 95°F in any re-analysis of environmental conditions.

- Assist in the development of a hazard barrier control program (Ref. IN 92-52, IN 2000-020, and RIS 2001-009) by defining the credited EQ barriers for steam, temperature, or dose during any re-analysis of environmental conditions.

4.0 PROJECT INTEGRATION PLAN

The EQ Improvement Project shall support and be in alignment with the CNS Business Plan as well as the business plans for Engineering, ESD, and DED. The EQ Improvement Project will integrate with the Configuration Management Program. The EQ Improvement Project will also coordinate with any related CM improvement initiatives, such as the Design Basis Translation Project. Coordination with this project is essential since it involves improvements or changes dealing with the design basis inputs to the program or the programmatic interfaces and controls between DED and the EQ Program. The EQ Improvement Project also includes the resolution of the legacy PIR issues on the HELB analysis.

The EQ Improvement Program will use common site processes and procedures whenever possible to eliminate or minimize the use of unique program specific activities that are redundant with or not consistent with other existing plant practices. The objective is to maximize the integration of EQ Program controls (e.g. processes, procedures, and documents) into existing site procedures in lieu of maintaining or upgrading redundant program specific controls.

Internal inspections of equipment will coordinate with planned maintenance and testing activities whenever possible to minimize duplication of work.

5.0 PROJECT SCOPE

The scope of the EQ Improvement Project will address all three elements of the EQ Program (e.g. Design Input, Design Verification, and Program Implementation).

The WBS elements for the project delineated in Appendix B define the scope of work for the EQ Improvement Project. This WBS was originally developed for the EQ Recovery Project and has been modified to reflect the changes in scope and objectives between the two projects. The scope of the EQ Improvement Project consists of the following major elements and corresponding scopes of work:

EQ programmatic issue resolution (WBS title: EQ Bounding Issues)

- Revision of CNS EQ procedures
  - 0.20
  - 3.12 Series
  - Interfacing Procedures (based on results of CNS EQ Program Evaluations)
- Licensing basis review of environmental parameters (LER 2000-008 Commitment)
- EQ design basis review/revision
  - Develop EQ guidance documents (project instructions, position papers)
  - Define harsh parameters and develop EQ Zone Maps.
  - Update EQ Program Notebook (as necessary per 0-CNS-12).
  - Update topical design criteria document, "Environmental Qualification" (DCD 32)
  - Convert environmental qualification data package (EQDP) 46, "Environmental Conditions," and EQDP 72, "Beta Shielding Evaluation" into CNS calculations (NEDC 00-095 series).
  - Master equipment list (MEL) validation.
  - USAR changes/updates
- Provide program requirement to periodically monitor normal service conditions (e.g. temperature, dose rate, etc.) to ensure that the basis for establishing the qualified life of equipment remains valid.
- Perform Benchmarking of another EQ Program in high standing.

- CNS EQ Program evaluations
  - Design engineering interface evaluation
  - System engineering interface evaluation
  - Maintenance interface evaluation
  - Maintenance Planning interface evaluation
  - Operations interface evaluation
  - Material services interface evaluation
  - Licensing and Risk interface evaluation
  - EBS/Information Systems interface evaluation
  - Training interface evaluation
  - QA/Self Assessments
  - OER Interface Evaluation
  - Engineering Program Interface Evaluation

- Implement recommended upgrades/enhancements from the evaluation of departmental and program interfaces.

- EQ training activities

  - Develop and implement task specific training for CNS personnel, including EQ staff, Engineering (ESD, DED & PED), Maintenance, Planning, Operations, Licensing and Procurement Engineering/Materials Management.
  - Training to be coordinated with changes or enhancements to process and interfaces, which control the implementation of the EQ Program.

EQ primary containment (WBS title: EQ Primary Containment)

- Containment analysis for small steam line breaks in the Drywell (SCR 2000-0330).

- Credit containment spray (CED 2001-0028).

- Update affected analysis/calculations impacted by SSLB profiles.

- Reconstitute the Stone & Webster (SWEC) radiation dose calculations by environmental zones (currently have 72 calculations which are based on obsolete codes that cannot be maintained by CNS personnel). The new dose calculations shall be based on a source term, which is applicable to GE-14 fuel.

- Develop draft EQDP revisions in parallel w/ reconstitution of new environmental conditions (SSLB, Dose).
- Resolve EQDP open items in parallel w/ definition of new environmental conditions.
- Perform field verification/walkdowns of selected EQ equipment.
- Finalize EQDP's upon closure of open items (completion of PC EQDP's linked to RFO-20 OE's for PIRs 4-07770/4-08928/4-08967 and receipt of new dose analysis).
- Develop EQ Configuration Detail Drawings, as necessary, to clearly communicate the EQ design, configuration and maintenance requirements.
- Implementation of any new EQ requirements identified in the EQDP upgrade effort using the CED or engineering evaluation (EE) process (Ref procedures 3.4 and 3.4.5).
- Ensure consistency between EQ documentation and SAP / MasterData.
- Enhance Maintenance department EQ type procedures for clarity of EQ requirements, to ensure they are more understandable for the people who have to use them in the field.

EQ design basis inside secondary containment (WBS title: EQ Secondary Containment)

- Reconstitute high energy line break (HELB) analysis for breaks in the secondary containment using GOTHIC. This effort shall resolve the issues identified in PIRs 4-12620, 4-12920, 4-12794, 4-04960, 4-04954, 4-06278, and 1-22925.
- Reconstitute post-LOCA heat-up for the secondary containment using GOTHIC.
- Define the accident airborne beta dose in secondary containment and resolve the issue identified in PIR 4-12917.
- Develop draft EQDP revisions in parallel w/ reconstitution of new environmental conditions (dose, HELB, LOCA heat-up).

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

- Resolve EQDP open items in parallel w/ definition of new environmental conditions.
- Perform field verification of selected EQ equipment.
- Finalize EQDPs upon closure of open items
- Develop EQ Configuration Detail Drawings, as necessary, to clearly communicate the EQ design, configuration and maintenance requirements
- Implementation of any new EQ requirements identified in the EQDP upgrade effort using the CED or EE process (Ref. Procedures 3.4 and 3.4.5).
- Ensure consistency between EQ documentation and SAP / MasterData.
- Enhance Maintenance Department EQ type procedures for clarity of EQ requirements, to ensure they are more understandable for the people who have to use them in the field.

The scope of the EQ Improvement Project is primarily based on corrective actions for SCR's 2000-0330, SCR 2000-0386, SCR 2000-0423, and the results of subsequent self-assessments, extent of condition reviews, and independent external reviews.

The scope of this project is not limited to ESD or Engineering, and will affect or require support from other organizations such as Maintenance, Planning, Procurement Engineering, Materials Management, Training, and Quality Assurance. The level of effort required by these other organizations to support the implementation of the EQ Improvement Project is dependent on the extent of any changes necessary to provide programmatic controls to implement EQ requirements.

6.0 PROJECT QUALITY MANAGEMENT PLAN

EQ is achieved and preserved with a high degree of confidence only when the broad spectrum of related activities are correctly performed and documented. All essential project work is subject to the requirements of the CNS QA Program or an approved Vendor QA Program and shall be performed in accordance with the applicable procedures. Transmittal of technical information or design input between CNS Engineering Departments, or with a vendor performing work offsite, shall be formally controlled.

Project Instructions may be used to supplement existing procedures or to address project specific activities. Project Instructions shall be prepared and approved in accordance with 0-CNS-18. EQ Project Position Papers shall be used to document technical approaches or methodologies to be used during the implementation of the project. The purpose of the position papers is to promote consistency and capture specific details on methodology or approach. The Project Manager shall approve all Position Papers. Prior to project completion, project instructions and position papers shall be reviewed to determine if they address any legacy issues that need to be incorporated into any CNS procedure(s) design criteria documents, or the EQ Program Notebook.

The EQ Improvement Project will have a minimum of three (3) quality assurance oversight reviews. The purpose of these reviews is to ensure that the project is being implemented in a quality manner and to ensure that the project is effectively resolving the applicable EQ issues identified in SCRs 2000-0330, 2000-0386 & 2000-0423, LER 2000-008 and NRC Inspection Report 00-07.

The first planned review will occur when the project is approximately 10% complete overall and will focus on assessing the following:

- Project Scope vs. Project Objectives and the Corrective Actions from SCRs 2000-0330, 2000-0386, and 2000-0423.
- Project Management Infrastructure in-place and being used.
- Use of Project Instructions and Position Papers
- Technical and Quality requirements imposed on vendors for work performed under the CNS QA Program or vendor's QA Program.
- Training of Project Staff

The second planned review will occur when the project is approximately 50% complete overall and is intended to include a technical review of the project

deliverables which have been completed or are in-progress. The second review will also include a review of the resolution of any review findings or recommendations from the 10% review.

The third planned review will occur when the project is approximately 90% complete overall and is intended to be a completion assurance review to verify that upon completion the project will have satisfied the objectives of the project.

An independent technical reviewer will also be used to ensure that the project scope, project implementation, project positions and deliverables satisfy the applicable regulatory requirements and reflect industry best practices.

The project will also include an assessment of the quality of project deliverables versus costs to ensure CNS is receiving value added services and that the costs are reasonable relative to similar efforts at other utilities.

Project deliverables that require a change to the configuration of the plant shall be issued as a CED per EP 3.4. Project deliverables (e.g. calculations, EQDP's, EQ Configuration Detail Drawings, etc.) that provide new or revised requirements, but do not change the plant configuration, may be issued using the Engineering Evaluation (EE) process described in EP 3.4.5. This is to ensure that all of the affected documents are identified and updated, that a 50.59 review is performed, and any implementing actions are formally tracked to closure.

Any conditions adverse to quality that are identified as a result of implementing the EQ Improvement Project will be entered into the corrective action program. Technical Open Items against the EQDP shall be evaluated against the applicable station procedures and project instruction EQ-PI-002 to determine if a Notification is required. Justification shall be provided for all technical Open Items for which a Notification is not written.

8.0 PROJECT SCHEDULE MANAGEMENT PLAN

The Project Manager is responsible for implementing the EQ Improvement Project in accordance with the approved schedule. CNS has committed to the NRC to complete the EQ Improvement Project by June 30, 2003. The project schedule shall be developed and maintained to reflect the status of specific work activities. Key Milestones for the EQ Improvement Project are as follows:

8/24/2001	Credit Containment Spray (CED 2001-0028)
10/31/2001	Revise GL 96-06 Calculation (LER 2000-008)
11/30/2001	Finalize Drywell Profile for SSLB (NEDC 94-034C & 94-034D)
2/28/2002	Reconstitute the SWEC Dose Calculations
4/26/2002	Reconstitute EQ HELB Analysis
5/3/2002	Update Primary Containment EQDP's
6/30/2002	Evaluation and Upgrade of Programmatic Controls
6/30/2002	EQ Training Developed & Implemented
7/31/2002	Reconstitute Post-LOCA Heat-Up in Secondary Containment
11/26/2002	MEL Validation
11/30/2002	Complete Verification Activities Against 10CFR50.49
2/28/2003	Program Effectiveness Review
3/28/2003/	Update Secondary Containment EQDP's
6/30/2003	Project Completion

The project will be monitored and assessed by a performance indicator that reflects overall schedule performance of the project. A Schedule Performance Index (SPI) will be reported as part of the monthly project status report. The target for the SPI is between 0.95 and 1.05. SPI's outside of this range will be closely monitored and recovery plans developed when necessary. Action shall be taken if SPI's fall below 0.90. Where appropriate, the project status report will include work down curves or other graphical representation of the progress of the project.

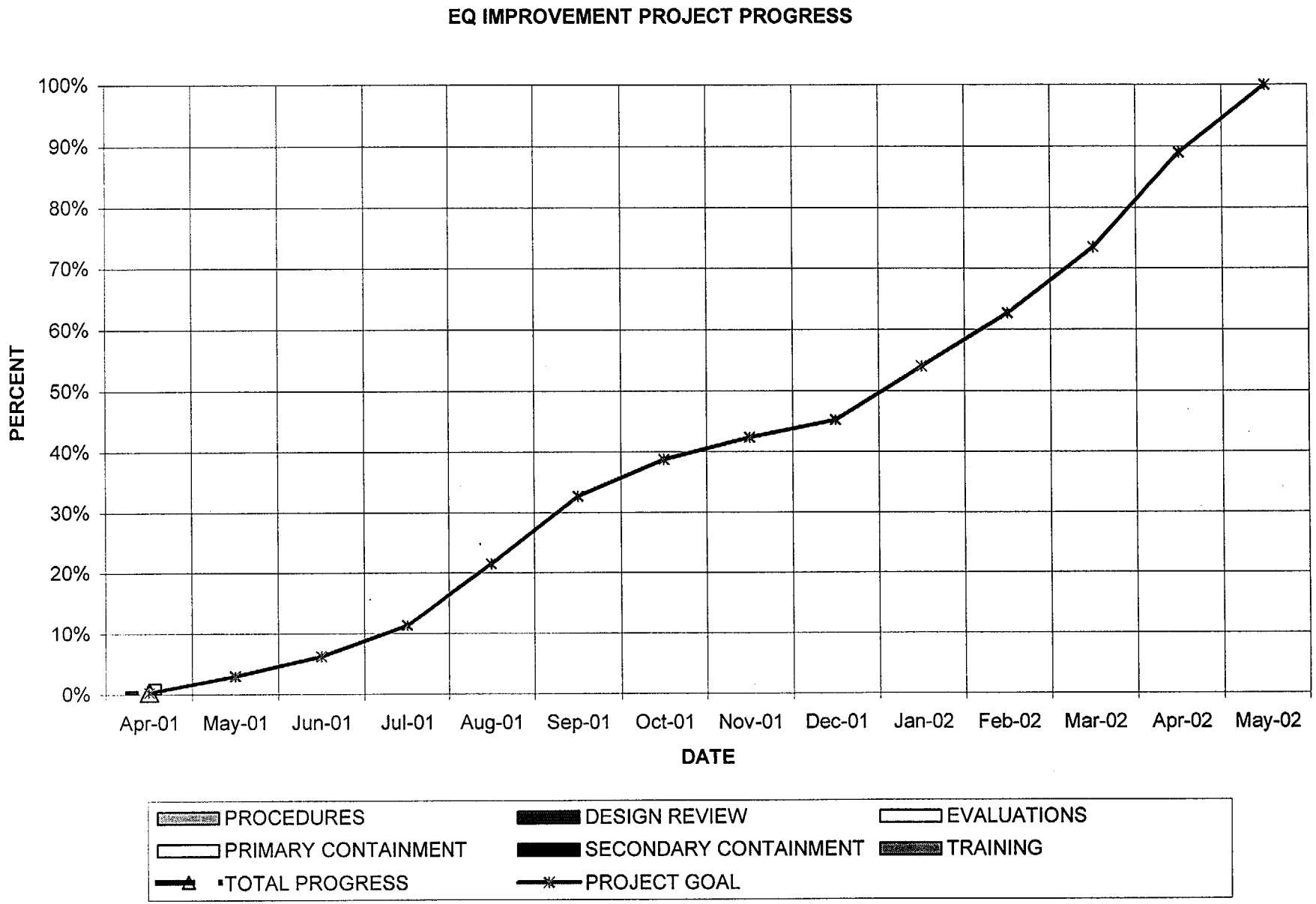
A typical example of the overall project performance indicator is provided in Figure 8-1. The project cost & scheduler shall provide monthly updates of the schedule performance indicator to the Project Manager.

The schedule for the project milestones is provided in Figure 8-2.

As identified by the Project Manager, a detailed implementation plan will be developed for large sub-activities (e.g. field walkdowns, implementation of program controls and interfaces, etc.) to clearly identify the logic ties and schedule for the activity.

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

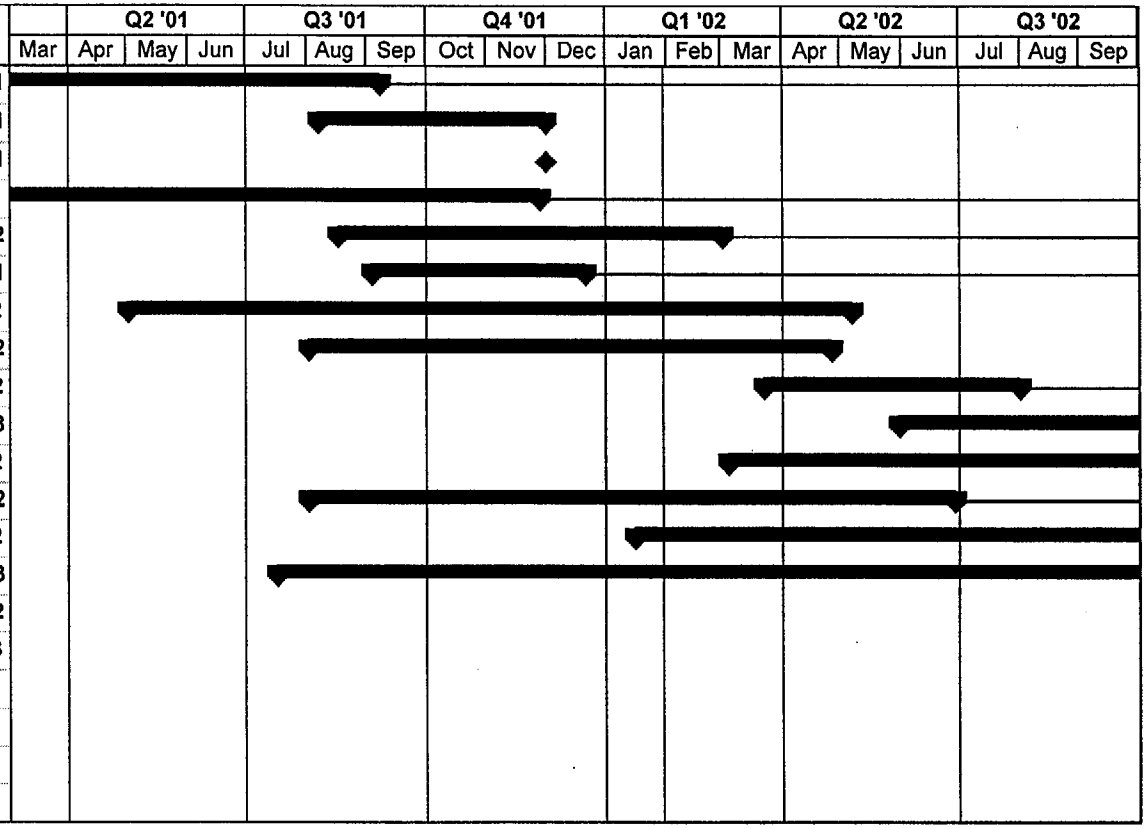
Figure 8-1



PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

Figure 8-2 Schedule for Project Milestones

ID	Task Name	Start	Finish
2	Credit Containment Spray	Fri 1/5/01	Fri 9/7/01
6	Revise GL 96-06 Calc	Mon 8/6/01	Fri 11/30/01
8	LER 2000-008 Date	Fri 11/30/01	Fri 11/30/01
10	Finalize Drywell Profile	Fri 1/5/01	Tue 11/27/01
17	Reconstitute EQ Dose Calcs	Thu 8/16/01	Fri 3/1/02
22	Field Verification Walkdowns	Mon 9/3/01	Fri 12/21/01
27	Update PC EQDP	Tue 5/1/01	Mon 5/6/02
32	HELB Analysis	Wed 8/1/01	Fri 4/26/02
38	Post LOCA Heat Up Calc	Fri 3/22/02	Wed 7/31/02
43	Update SC EQDP	Thu 5/30/02	Fri 3/28/03
48	MEL Validation	Mon 3/4/02	Tue 11/26/02
55	Evaluation of Prg Interfaces	Wed 8/1/01	Fri 6/28/02
62	EQ Training Develop & Implement	Tue 1/15/02	Mon 10/7/02
73	Program Effectiveness Review	Mon 7/16/01	Fri 3/21/03
81	Verification Activities Against 50.49	Wed 11/27/02	Wed 11/27/02
82	Project Completion	Mon 6/30/03	Mon 6/30/03
83			
84			
85			
86			



9.0 PROJECT COMMUNICATIONS MANAGEMENT PLAN

The purpose of the EQ Project Communications Plan is to outline the conceptual framework for all project communications with the following key audiences:

- Project Sponsor
- CNS Senior Management
- NRC
- EQ Project Staff and Stakeholders
- EQ Program Staff
- CNS Staff

The EQ Improvement Project requires a coherent plan to communicate its objectives, results and risks to a wide audience. This communications plan provides a summary of the communications strategy for the project along with details on implementation.

Project Sponsor

The principle objective in communicating with the Project Sponsor is to provide the information necessary to fulfill the oversight and champion role regarding the EQ Improvement Project. This includes providing an ongoing understanding of the project's scope, objectives, plans, status (e.g. project activities, issues, milestones, staffing, contracts), and progress (e.g. schedule, cost and performance) information. Communications with the Project Sponsor will also include defining the end-state of the EQ Program that will exist at the completion of the EQ Improvement Project. It also involves appraising the Project Sponsor on the risks and issues facing the project and how these are being effectively managed.

CNS Senior Management

The principle objective in communicating with CNS Senior Management is to provide them with the information necessary to fulfill their oversight obligations regarding the EQ Improvement Project. This includes routine reporting and providing ongoing understanding of the project's status, including objectives, plans, milestones, cost and progress information summarized at an executive level. It also involves appraising senior management on the risks and issues facing the project and how these are being effectively managed. It is expected formal reporting will be on a monthly basis.

NRC

Key objectives in communicating with the NRC include keeping them informed of EQ progress and successes, and building support and confidence in the EQ Improvement Project's approach to resolving EQ issues and restoring program integrity. All communications with NRC shall be in accordance with 0-CNS-17 and 0-CNS-24.

EQ Project Staff and Stakeholders

Regular and effective communication with project staff is essential to the success of the EQ Improvement Project. The breadth of the project makes it necessary to ensure that the objectives, scope, commitments, and the impact of implementing project deliverables are communicated to project staff on an ongoing basis. Communications with project personnel needs to include accomplishments and lessons learned (both positive and negative).

One key aspect of project communications with permanent project staff and stakeholders is to promote and facilitate "technology transfer" from the contractors and consultants working on the project. Understanding the basis, approach and rationale for the technical approaches, resolution of open items/emergent issues, and the basis for changes to the programmatic controls are key in developing program ownership by CNS personnel.

The main means of communicating with EQ Project staff and stakeholders includes periodic progress reports, project meetings, and face-to-face sessions between EQ Program staff, Program Stakeholders and EQ Project personnel.

EQ Program Staff

The principle objective of project communications with the EQ Program personnel is to keep them informed of key technical approaches, positions, or procedural changes by the EQ Improvement Project that will ultimately need to be implemented by the program. The breadth of the project makes it necessary to ensure that the objectives, scope, commitments, and the impact of implementing project deliverables are communicated to EQ Program staff on an ongoing basis. As a result, regular and effective communication with EQ Program staff is essential to the successful implementation and turnover of the project.

Communications with program personnel needs to include accomplishments and lessons learned (both positive and negative).

One key aspect of project communications with EQ Program staff is to promote and facilitate "technology transfer" from the contractors and consultants working on the project. Understanding the basis, approach and rationale for the technical approaches, resolution of open items/emergent issues, and the basis for changes to the programmatic controls are key in developing program ownership by CNS personnel.

The main means of communicating with EQ Program staff includes periodic interface meetings between the project and program personnel.

CNS Staff

From a nuclear safety perspective, EQ is a critical element to ensuring that CNS is capable of correctly responding to a design basis accident condition. It is therefore, important that all CNS staff (not only those in the EQ Program or working on the EQ Improvement Project) understand what EQ is, why it is necessary, what it will achieve, and what needs to be done to preserve the qualified status of equipment.

Communication to this audience will be considerably less technical and detailed than in the other cases above, and will be designed to achieve a set of educational and awareness-raising objectives. Key messages will include the nuclear safety rationale for the EQ Program, why EQ is a site-wide program that involves and depends on multiple departments and disciplines, and how to identify whether an equipment or component is environmentally qualified. This type of information will normally be communicated to site staff using the CNS Current Events or Planet Cooper newsletters.

Written project communication (e.g. status reports, meeting minutes, memorandums, letters, record of telephone conversations, etc.) will be distributed to the project file [See Appendix C]. Standard distribution lists will be maintained by the project for those type of documents and reports which are issued on a regular basis.

11.0 PROJECT RISK AND CONTINGENCY PLAN

The following potential problems or risks have been identified:

Risk or Issue	Contingency Plan
Inadequate staffing levels to implement the base EQ Program would result in diversion of project resources to support day-to-day plant operation, operability evaluations. Currently, there is only 1 CNS employee on site that is TPD 0949 qualified.	All base EQ program engineers need to be TPD 0949 qualified and have access to SAP.
The lack of qualified CNS resources will result in the need to use contract staff. This may impact the effectiveness of the technology transfer, which is critical to preserving the integrity of the program.	The project budget is based on a blend of CNS and contract staff as defined in Section 7.0 of the project plan. Changes to the resource mix that require additional funding will be handled via the project scope change control process. Technical standards are being documented in EQ Program Position Papers that are concurred by the EQ Program Owner. These position papers will be incorporated or included as a reference in the EQ Program Notebook. CNS personnel will be utilized in the resolution of emergent issues and those activities related to strengthening program interfaces and controls.
Reconstitution of the design inputs to the EQ Program can affect the scope of the program (activities such as MEL validation) and alter the environmental conditions to which the equipment is qualified.	As these issues arise, they will be handled via the project scope change control process.

Risk or Issue	Contingency Plan
The project plan assumes that the level of effort required to resolve project generated emergent issues or open items can be handled by 3-4 FTE Engineers. Emergent issues beyond this anticipated level will impact project cost and schedule. Failure to staff at this level for the resolution of emergent issues/open items will also have an adverse effect on project schedule.	As these issues arise, they will be handled via the project scope change control process.
The outcome of NRC Inspection Report 00-07 and the related regulatory conference has the potential to place additional demands on project resources.	The project has budgeted $215,000 of support related to the EQ regulatory conference support. Support activities in excess of this budget estimate will be handled via the project scope change control process. Safety Significance of IR 00-07 classified as Green.
Past Operability Testing of workmanship issues for SRV solenoids (SCR 2001-1236) can impact safety significance determination of Green for IR 00-07	At least one SRV is needed. Testing will be to plant specific conditions and configuration. Two SRV solenoids will be tested and possibly one cable to provide back-up position in case worst case solenoid (SRV-F) fails.
The cost estimate does not account for any contingencies, related DED efforts (NRC GL 96-06, NPSH, & Summer Ops), purchases of equipment, materials or testing services.	As these issues arise, they will be handled via the project scope change control process. Revision 1 to the project plan added WBS elements for handling of emergent issues, plant modification, and testing.

Risk or Issue	Contingency Plan
Identification of configuration issues or discrepancies during field verification walkdowns of EQ Equipment or while upgrading the EQDPs.	The Project Instruction for the field verification effort will require that a contingency plan be developed as part of the preparation and planning for the walkdown effort. Revision 1 to the project plan added WBS elements for handling of emergent issues, plant modification, and testing.

Appendix A: Original Project Charter

Appendix B: Work Breakdown Structure

The Work Breakdown Structure (WBS) for the EQ Improvement Project is established to reflect combination of Capitol and O&M activities associated with the EQ Improvement Project. The capital costs for the project are accrued under C/2377 and the O&M costs are accrued under E/218. The following WBS provides a summary of which project activities are capitol and which are O&M.

No. of Project object: 91(92)

Project object	Project object
CNS, EQ PROGRAM IMPROVEMENT PROJECT	C/002377
└── CNS, EQ PROGRAM IMPROVEMENT PROJECT	C/002377/01
├──→ AUC, No Post	C/002377/01.01
├── CNS EQ Primary Containment	C/002377/01.02
├──→ CNS EQ SSLB	C/002377/01.02.01
├──→ CNS EQ NEDC 00-095 Generation	C/002377/01.02.02
├──→ CNS EQ CS CED	C/002377/01.02.03
├──→ CNS EQ GL 96-06	C/002377/01.02.04
├── CNS EQ EQDP Revisions (Phase 1)	C/002377/01.02.05
├──→ AMENDMENT 3 TO PO 4200000154	6003623 0430
└──→ AMENDMENT 2 TO PO4200000154	6003623 0440
├──→ CNS EQ MEL	C/002377/01.02.06
└── CNS EQ Field Verification Primary Con	C/002377/01.02.07
└── CONTRACT FOR SERVICES FROM ERIN INC	6005721
├── CNS EQ Secondary Containment	C/002377/01.03
├── CNS EQ Torus & Quads	C/002377/01.03.01
├──→ DETERMINE DESIGN INPUTS FOR DOSE CA	6004026 0010
├──→ REVIEW COMPLETED DOSE CALCs	6004026 0020
├──→ SORC APPROVAL FOR DOSE CALCs	6004026 0030
├──→ TECHNOLOGY TRANSFER/TRAINING FOR DO	6004026 0040
├──→ ASSESS IMPACT ON OP WATER CHEM (OW	6004026 0050
├──→ DOSE CALCULATIONS BY APPLIED ANALYS	6004026 0060
├──→ TRAINING AT CNS	6004026 0070
└──→ TRAINING AT READING, PA	6004026 0080
├── CNS EQ HELB	C/002377/01.03.02
├──→ DETERMINE DESIGN INPUTS FOR HELB	6004025 0010
├──→ REVIEW COMPLETED HELB CALCULATIONS	6004025 0020
├──→ SORC APPROVAL FOR HELB CALCs	6004025 0030
├──→ TECHNOLOGY TRANSFER/TRAINING FOR HE	6004025 0040
├──→ HELB CALCULATION BY APPLIED ANALYSI	6004025 0050
├──→ TRAINING AT CNS	6004025 0060
├──→ TRAINING AT READING, PA	6004025 0070
└──→ ADD'L BREAK LOCATIONS NOT TO EXCEED	6004025 0080
├──→ CNS EQ CNSNOs	C/002377/01.03.03
├──→ CNS EQ NEDC 00-095 Revision	C/002377/01.03.04
├── CNS EQ EQDP Revisions (Phase 2)	C/002377/01.03.05
└── PURCHASE DOCUMENTS FOR EQDPs	6006886
└──→ EQ CERTIFICATION LETTER FOR AN RH	6006886 0010
└──→ CNS EQ Field Verification Secondary C	C/002377/01.03.06
├──→ CNS EQ Training Activities	C/002377/01.04
├── CNS EQ Project Management & Oversight	C/002377/01.05
└── CONTRACT FOR SERVICES FROM CONTECH IN	6006392
├──→ AMMENDMENT 4 TO CONTRACT NO. 420000	6006392 0010
└──→ AMMENDMENT 3 TO CONTRACT 4200000064	6006392 0020
├──→ CNS EQ Project Closure Activities	C/002377/01.06
└──→ CNS EQ DESIGN BASIS REVIEW	C/002377/01.07
ELECTRICAL CABLE EQDP. THIS NETWORK IS	6003623
├──→ EQDP 04 DRAFT	6003623 0010
├──→ EQDP 04 OPEN ITEMS TO RESOLVE	6003623 0020
├──→ EQDP 04 PLANT VERIFI. & VALID	6003623 0030
├──→ EQDP 04 FINAL REVIEWS & SIGNOFF	6003623 0040
├──→ EQDP 05 DRAFT	6003623 0050
├──→ EQDP 05 OPEN ITEMS TO RESOLVE	6003623 0060
├──→ EQDP 05 PLANT VERIFI & VALID.	6003623 0070
├──→ EQDP 05 FINAL REVIEWS & SIGNOFF	6003623 0080
├──→ EQDP 06 DRAFT	6003623 0090
├──→ EQDP 06 OPEN ITEMS TO RESOLVE	6003623 0100
├──→ EQDP 06 PLANT VERFI. & VALID.	6003623 0110
├──→ EQDP 06 FINAL REVIEWS & SIGNOFF	6003623 0120
├──→ EQDP 06B DRAFT	6003623 0130
├──→ EQDP 06B OPEN ITEMS TO RESOLVE	6003623 0140

Project object	Project object
EQDP 06B PLANT VERFI. & VALID.	6003623 0150
EQDP 06B FINAL REVIEWS & SIGNOFF	6003623 0160
EQDP 07 DRAFT	6003623 0170
EQDP 07 OPEN ITEMS TO RESOLVE	6003623 0180
EQDP 07 PLANT VERFI. & VALID.	6003623 0190
EQDP 07 FINAL REVIEWS AND SIGNOFF	6003623 0200
EQDP 07A DRAFT	6003623 0210
EQDP 07A OPEN ITEMS TO RESOLVE	6003623 0220
EQDP 07A PLANT VERFI. & VALID.	6003623 0230
EQDP 07A FINAL REVIEWS AND SIGNOFF	6003623 0240
EQDP 07B DRAFT	6003623 0250
EQDP 07B OPEN ITEMS TO RESOLVE	6003623 0260
EQDP 07B PLANT VERFI. & VALID.	6003623 0270
EQDP 07B FINAL REVIEWS AND SIGNOFF	6003623 0280
EQDP 205 DRAFT	6003623 0290
EQDP 205 OPEN ITEMS TO RESOLVE	6003623 0300
EQDP 205 PLANT VERFI. & VALID.	6003623 0310
EQDP 205 FINAL REVIEWS AND SIGNOFF	6003623 0320
EQDP 206 DRAFT	6003623 0330
EQDP 206 OPEN ITEMS TO RESOLVE	6003623 0340
EQDP 206 PLANT VERFI. AND VALID.	6003623 0350
EQDP 206 FINAL REVIEWS AND SIGNOFF	6003623 0360
EQDP 74C DRAFT	6003623 0370
EQDP 74C OPEN ITEMS TO RESOLVE	6003623 0380
EQDP 74C PLANT VERFI. & VALID.	6003623 0390
EQDP 74C FINAL REVIEWS AND SIGNOFF	6003623 0400
CONTRACTOR SERVICES FOR EQ IMPROVEMENT P	6003623 0410
AMENDMENT TO PO 4200000154	6003623 0420
EQ HELB CALCULATIONS	6004025
EQ DOSE CALCULATIONS	6004026

No. of Project object: 630(754)

Project object	Project object
CNS EQ Program Improvement Project	E/000218
└ CNS EQ Program Improvement Project	E/000218/01
├ CNS EQ Bounding Issues	E/000218/01.01
├ CNS EQ Procedure Revisions	E/000218/01.01.01
└ ASSESS INTERFACES/CONTROLS THIS WI	6004002
├→ DEVELOP PROJECT INSTRUCTIONS	6004002 0010
├→ REVISE EQ PROCEDURES IN THE 3.12	6004002 0020
├→ REVISE DESIGN ENG PROCEDURES	6004002 0030
├→ REVISE SYSTEM ENG PROCEDURES	6004002 0040
├→ REVISE MATERIAL SERVICES ENG PROC	6004002 0050
├→ REVISE MAINTENANCE PROCEDURES (SU	6004002 0060
├→ REVISE MAINTENANCE PROCEDURES (PL	6004002 0070
├→ REVISE OPERATIONS PROCEDURES	6004002 0080
├→ REVISE LICENSING PROCEDURES	6004002 0090
├→ REVISE EBS/DATA SYSTEMS/PROCEDURE	6004002 0100
├→ REVISE TRAINING PROCEDURES	6004002 0110
└→ ERIN ENG. TO PERFORM CED FOR SRV	6004002 0120
├ CNS EQ Design Bases Review	E/000218/01.01.02
└ EQ GUIDANCE DOCUMENTS THIS IS BEIN	6004003
├ ARRHENIUS METHODOLOGY	6004003 0010
├ TEST REPORT VALIDITY	6004003 0020
├ HANDLING OF EQDP OPEN ITEMS	6004003 0030
├ USE OF INTERIM ENVIRONMENTAL COND	6004003 0040
├→ BETA REDUCTION METHODOLOGY	6004003 0050
├ HANDLING OF LUBRICANTS	6004003 0060
├→ START OF QUALIFIED LIFE (SHELF LI	6004003 0070
├→ FIELD VERIFICATION CRITERIA AND I	6004003 0080
├→ HISTORICAL EQ OPEX	6004003 0090
├→ EQ ZONE MAPS	6004003 0100
├→ DEFINE HARSH PARAMETERS	6004003 0110
├→ DCD-32	6004003 0120
├→ EQ PROGRAM NOTEBOOKS	6004003 0130
├→ PURCHASE TEST REPORTS AS NEEDED	6004003 0135
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0141
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0142
├ SORC APPROVAL OF NEDC 00-095A	6004003 0143
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0151
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0152
├ SORC APPROVAL OF NEDC 00-095B	6004003 0153
├ REVIEW AND ACCEPT NEDC 00-095C C	6004003 0160
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0161
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0162
├ SORC APPROVAL OF NEDC 00-095C	6004003 0163
├ REVISE CALCS BASED ON NEDC97-013	6004003 0164
├ PREPARE EE01-080 TO IMPLEMENT NED	6004003 0166
├ IDV EE01-080	6004003 0168
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0171
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0172
├ SORC APPROVAL OF NEDC 00-095D	6004003 0173
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0181
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0182
├ SORC APPROVAL OF NEDC 00-095E	6004003 0183
├ REVIEW AND ACCEPT NEDC 00-095F C	6004003 0190
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0191
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0192
├ SORC APPROVAL OF NEDC 00-095F	6004003 0193
├ REVIEW AND ACCEPT NEDC 00-095G C	6004003 0200
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0201
├ IDV OF EE AND 50,59 OF NEDC 00-0	6004003 0202
├ SORC APPROVAL OF NEDC 00-095G	6004003 0203
├ EE AND 50.59 PROCESS OF NEDC 00-0	6004003 0211

Project object	Project object	
├── IDV OF EE AND 50,59 OF NEDC 00-0	6004003	0212
├── SORC APPROVAL OF NEDC 00-095H	6004003	0213
└── SUPERSEDE EQDP 46	6004003	0220
├── PURCHASE REQUIRED SOFTWARE FOR EQ	6004027	
├→ PURCHASE RELAP 5 OR 6 FOR HELB	6004027	0010
├→ PURCHASE MICROSHIELD FOR DOSE	6004027	0020
└→ PERFORM QA SOFTWARE APPROVAL	6004027	0030
└── MEL VALIDATION	6004028	
├→ LOAD ATLAS WITH MEL DATA	6004028	0010
├→ SSD PATH FOR ALL HELBs	6004028	0020
├→ B(2) REVIEW	6004028	0030
├→ COMPARE MEL AND EDF	6004028	0040
└→ EQ CABLE REVIEW	6004028	0050
├── CNS EQ Program Evaluations	E/000218/01.01.03	
├── DESIGN ENGINEERING EQ PROGRAM EVALU	6003706	
├→ SELF ASSESSMENT FOR DESIGN ENG	6003706	0010
├→ IDENTIFY CORRECTIVE ACTIONS FOR D	6003706	0020
└→ IMPLEMENT CORRECTIVE ACTIONS FOR	6003706	0030
├── MAINTENANCE EQ PROGRAM EVALUATION	6003707	
├→ SELF ASSESSMENT	6003707	0010
├→ IDENTIFY CORRECTIVE ACTIONS	6003707	0020
└→ IMPLEMENT CORRECTIVE ACTIONS	6003707	0030
├── OPERATION EQ PROGRAM EVALUATION	6003708	
├→ SELF ASSESSMENT	6003708	0010
├→ IDENTIFY CORRECTIVE ACTIONS	6003708	0020
└→ IMPLEMENT CORRECTIVE ACTIONS	6003708	0030
├── MATERIAL SERVICES ENG. EQ EVALUATI	6003709	
├→ SELF ASSESSMENT	6003709	0010
├→ IDENTIFY CORRECTIVE ACTIONS	6003709	0020
└→ IMPLEMENT CORRECTIVE ACTIONS	6003709	0030
├── LICENSING AND RISK EQ EVALUATION	6003710	
├→ SELF ASSESSMENT	6003710	0010
├→ IDENTIFY CORRECTIVE ACTIONS	6003710	0020
└→ IMPLEMENT CORRECTIVE ACTIONS	6003710	0030
├── SYSTEM ENGINEERING EQ PROGRAM EVALU	6004004	
├→ SELF ASSESSMENT FOR SYSTEM ENG.	6004004	0010
├→ IDENTIFY CORRECTIVE ACTIONS FOR S	6004004	0020
└→ IMPLEMENT CORRECTIVE ACTIONS FOR	6004004	0030
├── MAINTENANCE PLANNING EQ PROGRAM EVA	6004005	
├→ SELF ASSESSMENT FOR MAINTENANCE P	6004005	0010
├→ IDENTIFY CORRECTIVE ACTIONS FOR M	6004005	0020
└→ IMPLEMENT CORRECTIVE ACTIONS FOR	6004005	0030
├── EBS/DATA SYSTEMS PROGRAM EVALUATION	6004006	
├→ SELF ASSESSMENT FOR EBS/DATA SYST	6004006	0010
├→ IDENTIFY CORRECTIVE ACTIONS FOR E	6004006	0020
└→ IMPLEMENT CORRECTIVE ACTIONS FOR	6004006	0030
├── TRAINING EQ PROGRAM EVALUATION	6004007	
├→ SELF ASSESSMENT FOR TRAINING EQ	6004007	0010
├→ IDENTIFY CORRECTIVE ACTIONS FOR T	6004007	0020
└→ IMPLEMENT CORRECTIVE ACTIONS FOR	6004007	0030
└── OER EQ PROGRAM EVALUATION	6004300	
├→ SELF ASSESSMENT	6004300	0010
├→ IDENTIFY CORRECTIVE ACTIONS/IMPRO	6004300	0020
└→ IMPLEMENT CORRECTIVE ACTIONS	6004300	0030
└── CNS EQ Self Assessment	E/000218/01.01.04	
└── QA/SELF ASSESSMENTS	6004008	
├── PERFORM AUDIT AT 10 % OF PROJECT	6004008	0010
├── RESPONSE TO THE 10% AUDIT	6004008	0020
├── PERFORM AUDIT AT 50 % OF PROJECT	6004008	0030
├── RESPONSE TO THE 50% AUDIT	6004008	0040
├── PERFORM AUDIT AT 90 % OF PROJECT	6004008	0050

Project object	Project object	
RESPONSE TO THE 90% AUDIT	6004008	0060
INDEPENDENT OVERSITE BY CONTRACTO	6004008	0070
TRAVEL EXPENSES	6004008	0090
CNS EQ Primary Containment	E/000218/01.02	
CNS EQ SSLB	E/000218/01.02.01	
EQ CONTAINMENT SSLB PROFILE NOTE G	6003927	
REVIEW AND ACCEPT GE CALC. NEDC 0	6003927	0010
EE AND 50.59 PROCESS	6003927	0020
IDV OF EE AND 50.59	6003927	0025
SORC APPROVAL	6003927	0030
UPDATE CALCs NEED FOR GL96-06 LE	6003927	0040
EE AND 50.59 PROCESS	6003927	0050
IDV OF EE AND 50.59	6003927	0060
SORC APPROVAL	6003927	0070
PERFORM WATER HAMMER SUSCEPTIBILI	6003927	0080
ADD'L FUNDS FOR EVALUATION BY VEN	6003927	0090
DRYWELL PRESSURE SETPOINT FOR DW SP	6003980	
REVIEW AND ACCEPT GE CALC.	6003980	0010
EE AND 50.59 PROCESS	6003980	0020
IDV OF EE AND 50.59	6003980	0030
SORC APPROVAL	6003980	0040
DRYWELL PRESSURE STRESS NEDC 00-039	6003981	
PREPARE AND ACCEPT CALC. NEDC 00-	6003981	0010
IDV CALC. NEDC 00-039	6003981	0020
SORC APPROVAL OF NEDC 00-039	6003981	0030
DRYWELL LINER NEDC 00-040	6003982	
PREPARE AND ACCEPT CALC. NEDC 00-	6003982	0010
IDV OF CALC. NEDC 00-040	6003982	0020
SORC APPROVAL OF CALC. NEDC 00-04	6003982	0030
CNS EQ USAR CHANGES	E/000218/01.02.02	
CNS EQ CS CED	E/000218/01.02.03	
CONTAINMENT SPRAY SSLB ANALYSIS	6003931	
REVIEW OF COMPLETED CED REVISION	6003931	0010
PERFORM IDV OF 50.59 AND CED REVI	6003931	0020
SORC APPROVAL FOR REVISION 0	6003931	0030
PERFORM CED REVSION 1	6003931	0040
PERFROM IDV OF 50.59 FOR CED REVI	6003931	0050
SORC AAPPROVAL FOR REVISION 1	6003931	0060
PREPARE MOV LCAs	6003931	0070
REVIEW MOV LCAs	6003931	0080
ENGINEERING SUPPORT	4164370	
ENGINEERING SUPPORT	4164370	0010
CNS EQ OTHER	E/000218/01.02.04	
CNS EQ EQDP Revisions (Phase 1)	E/000218/01.02.05	
ELECTRICAL CABLE EQDP. THIS NETWOR	6003623	
EQDP 04 DRAFT	6003623	0010
EQDP 04 OPEN ITEMS TO RESOLVE	6003623	0020
EQDP 04 PLANT VERIFI. & VALID	6003623	0030
EQDP 04 FINAL REVIEWS & SIGNOFF	6003623	0040
EQDP 05 DRAFT	6003623	0050
EQDP 05 OPEN ITEMS TO RESOLVE	6003623	0060
EQDP 05 PLANT VERIFI & VALID.	6003623	0070
EQDP 05 FINAL REVIEWS & SIGNOFF	6003623	0080
EQDP 06 DRAFT	6003623	0090
EQDP 06 OPEN ITEMS TO RESOLVE	6003623	0100
EQDP 06 PLANT VERFI. & VALID.	6003623	0110
EQDP 06 FINAL REVIEWS & SIGNOFF	6003623	0120
EQDP 06B DRAFT	6003623	0130
EQDP 06B OPEN ITEMS TO RESOLVE	6003623	0140
EQDP 06B PLANT VERFI. & VALID.	6003623	0150
EQDP 06B FINAL REVIEWS & SIGNOFF	6003623	0160

Project object	Project object	
EQDP 07 DRAFT	6003623	0170
EQDP 07 OPEN ITEMS TO RESOLVE	6003623	0180
EQDP 07 PLANT VERFI. & VALID.	6003623	0190
EQDP 07 FINAL REVIEWS AND SIGNOFF	6003623	0200
EQDP 07A DRAFT	6003623	0210
EQDP 07A OPEN ITEMS TO RESOLVE	6003623	0220
EQDP 07A PLANT VERFI. & VALID.	6003623	0230
EQDP O7A FINAL REVIEWS AND SIGNOF	6003623	0240
EQDP 07B DRAFT	6003623	0250
EQDP 07B OPEN ITEMS TO RESOLVE	6003623	0260
EQDP 07B PLANT VERFI. & VALID.	6003623	0270
EQDP 07B FINAL REVIEWS AND SIGNOF	6003623	0280
EQDP 205 DRAFT	6003623	0290
EQDP 205 OPEN ITEMS TO RESOLVE	6003623	0300
EQDP 205 PLANT VERFI. & VALID.	6003623	0310
EQDP 205 FINAL REVIEWS AND SIGNOF	6003623	0320
EQDP 206 DRAFT	6003623	0330
EQDP 206 OPEN ITEMS TO RESOLVE	6003623	0340
EQDP 206 PLANT VERFI. AND VALID.	6003623	0350
EQDP 206 FINAL REVIEWS AND SIGNOF	6003623	0360
EQDP 74C DRAFT	6003623	0370
EQDP 74C OPEN ITEMS TO RESOLVE	6003623	0380
EQDP 74C PLANT VERFI. & VALID.	6003623	0390
EQDP 74C FINAL REVIEWS AND SIGNOF	6003623	0400
CONTRACTOR SERVICES FOR EQ IMPROV	6003623	0410
AMENDMENT TO PO 4200000154	6003623	0420
ELECTRICAL TERMINAL BLOCK EQDP TH	6003624	
EQDP 15 DRAFT	6003624	0010
EQDP 15 OPEN ITEMS TO RESOLVE	6003624	0020
EQDP 15 PLANT VERFI. & VALID.	6003624	0030
EQDP 15 FINAL REVIEW AND SIGNOFF	6003624	0040
EQDP 15A DRAFT	6003624	0050
EQDP 15A OPEN ITEMS TO RESOLVE	6003624	0060
EQDP 15A PLANT VERFI. AND VALID.	6003624	0070
EQDP 15A FINAL REVIEW AND SIGNOFF	6003624	0080
VALVE OPERATOR EQDP. THIS NETWORK	6003625	
EQDP 31 DRAFT	6003625	0010
EQDP 31 OPEN ITEMS TO RESOLVE	6003625	0020
EQDP 31 PLANT VERFI. & VALID.	6003625	0030
EQDP 31 FINAL REVIEWS AND SIGNOFF	6003625	0040
EQDP 31C DRAFT	6003625	0050
EQSP 31C OPEN ITEMS TO RESOLVE	6003625	0060
EQDP 31C PLANT VERFI. & VALID.	6003625	0070
EQDP 31C FINAL REVIEWS AND SIGNOF	6003625	0080
EQDP31G DRAFT	6003625	0090
EQDP 31G OPEN ITEMS TO RESOLVE	6003625	0100
EQDP 31G PLANT VERFI. & VALID.	6003625	0110
EQDP 31G FINAL REVIEWS AND SIGNOF	6003625	0120
EQDP 229 DRAFT	6003625	0130
EQDP 229 OPEN ITEMS TO RESOLVE	6003625	0140
EQDP 229 PLANT VERFI. & VALID.	6003625	0150
EQDP 229 FINAL REVIEWS AND SIGNOF	6003625	0160
EQDP 229A DRAFT	6003625	0170
EQDP 229A OPEN ITEMS TO RESOLVE	6003625	0180
EQDP 229A PLANT VERFI. & VALID.	6003625	0190
EQDP 229A FINAL REVIEWS AND SIGNO	6003625	0200
EQDP 253 DRAFT	6003625	0210
EQDP 253 OPEN ITEMS TO RESOLVE	6003625	0220
EQDP 253 PLANT VERFI. & VALID.	6003625	0230
EQDP 253 FINAL REVIEWS AND SIGNOF	6003625	0240
SPLICE EQDPS. THIS NETWORK IF FOR	6003626	

Project object	Project object	
├→ EQDP 74A DRAFT	6003626	0010
├→ EQDP 74A OPEN ITEMS TO RESOLVE	6003626	0020
├→ EQDP 74A PLANT VERFI. & VALID.	6003626	0030
├→ EQDP 74A FINAL REVIEWS AND SIGNOF	6003626	0040
├→ EQDP 74B DRAFT	6003626	0050
├→ EQDP 74B OPEN ITEMS TO RESOLVE	6003626	0060
├→ EQDP 74B PLANT VERFI. & VALID.	6003626	0070
├→ EQDP 74B FINAL REVIEWS AND SIGNOF	6003626	0080
├→ EQDP 74F DRAFT	6003626	0090
├→ EQDP 74F OPEN ITEMS TO RESOLVE	6003626	0100
├→ EQDP 74F PLANT VERFI. & VALID.	6003626	0110
├→ EQDP 74F FINAL REVIEWS AND SIGNOF	6003626	0120
├→ EQDP 74G DRAFT	6003626	0130
├→ EQDP 74G OPEN ITEMS TO RESOLVE	6003626	0140
├→ EQDP 74G PLANT VERFI. & VALID.	6003626	0150
└→ EQDP 74G FINAL REVIEWS AND SIGNOF	6003626	0160
├─ PENETRATION EQDP. THIS NETWORK IS	6003627	
├→ EQDP 08 DRAFT	6003627	0010
├→ EQDP 08 OPEN ITEMS TO RESOLVE	6003627	0020
├→ EQDP 08 PLANT VERFI. & VALID.	6003627	0030
├→ EQDP 08 FINAL REVIEWS AND SIGNOFF	6003627	0040
├→ EQDP 203 DRAFT	6003627	0050
├→ EQDP 203 OPEN ITEMS TO RESOLVE	6003627	0060
├→ EQDP 203 PLANT VERFI. & VALID.	6003627	0070
├→ EQDP 203 FINAL REVIEWS AND SIGNOF	6003627	0080
├→ EQDP 225A DRAFT	6003627	0090
├→ EQDP 225A OPEN ITEMS TO RESOLVE	6003627	0100
├→ EQDP 225A PLANT VERFI. & VALID.	6003627	0110
├→ EQDP 225A FINAL REVIEWS AND SIGNO	6003627	0120
├→ EQDP 227 DRAFT	6003627	0130
├→ EQDP 227 OPEN ITEMS TO RESOLVE	6003627	0140
├→ EQDP 227 PLANT VERFI. & VALID.	6003627	0150
├→ EQDP 227 FINAL REVIEWS AND SIGNOF	6003627	0160
├→ EQDP 248 DRAFT	6003627	0170
├→ EQDP 248 OPEN ITEMS TO RESOLVE	6003627	0180
├→ EQDP 248 PLANT VERFI. & VALID.	6003627	0190
└→ EQDP 248 FINAL REVIEWS AND SIGNOF	6003627	0200
├─ CONNECTOR EQDP. THIS NETWORK IS FO	6003628	
├→ EQDP 241 DRAFT	6003628	0010
├→ EQDP 241 OPEN ITEMS TO RESOLVE	6003628	0020
├→ EQDP 241 PLANT VERFI. & VALID.	6003628	0030
├→ EQDP 241 FINAL REVIEWS AND SIGNOF	6003628	0040
├→ EQDP 249 DRAFT	6003628	0050
├→ EQDP 249 OPEN ITEMS TO RESOLVE	6003628	0060
├→ EQDP 249 PLANT VERFI. & VALID.	6003628	0070
├→ EQDP 249 FINAL REVIEWS AND SIGNOF	6003628	0080
├→ EQDP 251 DRAFT	6003628	0090
├→ EQDP 251 OPEN ITEMS TO RESOLVE	6003628	0100
├→ EQDP 251 PLANT VERFI. & VALID.	6003628	0110
└→ EQDP 251 FINAL REVIEWS AND SIGNOF	6003628	0120
├─ INDICATION EQDP. THIS NETWORK IS F	6003629	
├→ EQDP 49A DRAFT	6003629	0010
├→ EQDP 49A OPEN ITEMS TO RESOLVE	6003629	0020
├→ EQDP 49A PLANT VERFI. & VALID.	6003629	0030
├→ EQDP 49A FINAL REVIEWS AND SIGNOF	6003629	0040
├→ EQDP 87 DRAFT	6003629	0050
├→ EQDP 87 OPEN ITEMS TO RESOLVE	6003629	0060
├→ EQDP 87 PLANT VERFI. & VALID.	6003629	0070
├→ EQDP 87 FINAL REVIEWS AND SIGNOFF	6003629	0080
├→ EQDP 87A DRAFT	6003629	0090
├→ EQDP 87A OPEN ITEMS TO RESOLVE	6003629	0100

Project object	Project object	
EQDP 87A PLANT VERFI. & VALID	6003629	0110
EQDP 87A FINAL REVIEWS AND SIGNOF	6003629	0120
EQDP 225 DRAFT	6003629	0130
EQDP 225 OPEN ITEMS TO RESOLVE	6003629	0140
EQDP 225 PLANT VERFI. & VALID.	6003629	0150
EQDP 225 FINAL REVIEWS AND SIGNOF	6003629	0160
EQDP 234 DRAFT	6003629	0170
EQDP 234 OPEN ITEMS TO RESOLVE	6003629	0180
EQDP 234 PLANT VERFI. & VALID.	6003629	0190
EQDP 234 FINAL REVIEWS AND SIGNOF	6003629	0200
CNS EQ OTHER	E/000218/01.02.06	
CNS EQ OTHER	E/000218/01.02.07	
CNS EQ SECONDARY CONTAINMENT	E/000218/01.03	
CNS EQ TORUS & QUADS POST LOCA HEATUP	E/000218/01.03.01	
EQ DOSE CALCULATIONS	6004026	
CNS EQ HELB	E/000218/01.03.02	
EQ HELB CALCULATIONS	6004025	
CNS EQ OTHER	E/000218/01.03.03	
CNS EQ OTHER	E/000218/01.03.04	
CNS EQ EQDP Revisions (Phase 2)	E/000218/01.03.05	
ELECTRICAL CABLE EQDP. THIS NETWORK	6003643	
EQDP 05A DRAFT	6003643	0010
EQDP 05A OPEN ITEMS TO RESOLVE	6003643	0020
EQDP 05A PLANT VERFI. & VALID.	6003643	0030
EQDP 05A FINAL REVIEWS AND SIGNOF	6003643	0040
EQDP 05B DRAFT	6003643	0050
EQDP 05B OPEN ITEMS TO RESOLVE	6003643	0060
EQDP 05B PLANT VERFI. & VALID.	6003643	0070
EQDP 05B FINAL REVIEWS AND SIGNOF	6003643	0080
EQDP 06A DRAFT	6003643	0090
EQDP 06A OPEN ITEMS TO RESOLVE	6003643	0100
EQDP 06A PLANT VERFI. & VALID.	6003643	0110
EQDP 06A FINAL REVIEWS AND SIGNOF	6003643	0120
EQDP 213 DRAFT	6003643	0130
EQDP 213 OPEN ITEMS TO RESOLVE	6003643	0140
EQDP 213 PLANT VERFI. & VALID.	6003643	0150
EQDP 213 FINAL REVIEWS AND SIGNOF	6003643	0160
EQDP 242 DRAFT	6003643	0170
EQDP 242 OPEN ITEMS TO RESOLVE	6003643	0180
EQDP 242 PLANT VERFI. & VALID.	6003643	0190
EQDP 242 FINAL REVIEWS AND SIGNOF	6003643	0200
EQDP 250 DRAFT	6003643	0210
EQDP 250 OPEN ITEMS TO RESOLVE	6003643	0220
EQDP 250 PLANT VERFI. & VALID.	6003643	0230
EQDP 250 FINAL REVIEWS AND SIGNOF	6003643	0240
EQDP 74DRAFT	6003643	0250
EQDP 74 OPEN ITEMS TO RESOLVE	6003643	0260
EQDP 74 PLANT VERFI. & VALID.	6003643	0270
EQDP 74 FINAL REVIEWS AND SIGNOF	6003643	0280
TERMINAL AND FUSE BLOCK EQDP. THIS	6003644	
EQDP 211 DRAFT	6003644	0010
EQDP 211 OPEN ITEMS TO RESOLVE	6003644	0020
EQDP 211 PLANT VERFI. & VALID.	6003644	0030
EQDP 211 FINAL REVIEWS AND SIGNOF	6003644	0040
EQDP 245 DRAFT	6003644	0050
EQDP 245 OPEN ITEMS TO RESOLVE	6003644	0060
EQDP 245 PLANT VERFI. & VALID.	6003644	0070
EQDP 245 FINAL REVIEWS AND SIGNOF	6003644	0080
INDICATION EQDP. THIS NETWORK IS F	6003660	
EQDP 13 DRAFT	6003660	0010
EQDP 13 OPEN ITEMS TO RESOLVE	6003660	0020

Project object		Project object	
X	EQDP 13 PLANT VERFI. & VALID.	6003660	0030
X	EQDP 13 FINAL REVIEWS AND SIGNOFF	6003660	0040
X	EQDP 36 DRAFT	6003660	0050
X	EQDP 36 OPEN ITEMS TO RESOLVE	6003660	0060
X	EQDP 36 PLANT VERFI. & VALID.	6003660	0070
X	EQDP 36 FINAL REVIEWS AND SIGNOF	6003660	0080
X	EQDP 39 DRAFT	6003660	0090
X	EQDP 39 OPEN ITEMS TO RESOLVE	6003660	0100
X	EQDP 39 PLANT VERFI. & VALID.	6003660	0110
X	EQDP 39 FINAL REVIEWS AND SIGNOF	6003660	0120
X	EQDP 41 DRAFT	6003660	0130
X	EQDP 41 OPEN ITEMS TO RESOLVE	6003660	0140
X	EQDP 41 PLANT VERFI. & VALID.	6003660	0150
X	EQDP 41 FINAL REVIEWS AND SIGNOF	6003660	0160
X	EQDP 49 DRAFT	6003660	0170
X	EQDP 49 OPEN ITEMS TO RESOLVE	6003660	0180
X	EQDP 49 PLANT VERFI. & VALID.	6003660	0190
X	EQDP 49 FINAL REVIEWS AND SIGNOF	6003660	0200
X	EQDP 69 DRAFT	6003660	0210
X	EQDP 69 OPEN ITEMS TO RESOLVE	6003660	0220
X	EQDP 69 PLANT VERFI. & VALID.	6003660	0230
X	EQDP 69 FINAL REVIEWS AND SIGNOF	6003660	0240
X	EQDP 70 DRAFT	6003660	0250
X	EQDP 70 OPEN ITEMS TO RESOLVE	6003660	0260
X	EQDP 70 PLANT VERFI. & VALID.	6003660	0270
X	EQDP 70 FINAL REVIEWS AND SIGNOF	6003660	0280
X	EQDP 70A DRAFT	6003660	0290
X	EQDP 70A OPEN ITEMS TO RESOLVE	6003660	0300
X	EQDP 70A PLANT VERFI. & VALID.	6003660	0310
X	EQDP 70A FINAL REVIEWS AND SIGNO	6003660	0320
X	EQDP 76 DRAFT	6003660	0330
X	EQDP 76 OPEN ITEMS TO RESOLVE	6003660	0340
X	EQDP 76 PLANT VERFI. & VALID.	6003660	0350
X	EQDP 76 FINAL REVIEWS AND SIGNOF	6003660	0360
X	EQDP 77 DRAFT	6003660	0370
X	EQDP 77 OPEN ITEMS TO RESOLVE	6003660	0380
X	EQDP 77 PLANT VERFI. & VALID.	6003660	0390
X	EQDP 77 FINAL REVIEWS AND SIGNOF	6003660	0400
X	EQDP 81 DRAFT	6003660	0410
X	EQDP 81 OPEN ITEMS TO RESOLVE	6003660	0420
X	EQDP 81 PLANT VERFI. & VALID.	6003660	0430
X	EQDP 81 FINAL REVIEWS AND SIGNOF	6003660	0440
X	EQDP 217 DRAFT	6003660	0450
X	EQDP 217 OPEN ITEMS TO RESOLVE	6003660	0460
X	EQDP 217 PLANT VERFI. & VALID.	6003660	0470
X	EQDP 217 FINAL REVIEWS AND SIGNO	6003660	0480
X	EQDP 220 DRAFT	6003660	0490
X	EQDP 220 OPEN ITEMS TO RESOLVE	6003660	0500
X	EQDP 220 PLANT VERFI. & VALID.	6003660	0510
X	EQDP 220 FINAL REVIEWS AND SIGNO	6003660	0520
X	EQDP 222 DRAFT	6003660	0530
X	EQDP 222 OPEN ITEMS TO RESOLVE	6003660	0540
X	EQDP 222 PLANT VERFI. & VALID.	6003660	0550
X	EQDP 222 FINAL REVIEWS AND SIGNO	6003660	0560
X	EQDP 223 DRAFT	6003660	0570
X	EQDP 223 OPEN ITEMS TO RESOLVE	6003660	0580
X	EQDP 223 PLANT VERFI. & VALID.	6003660	0590
X	EQDP 223 FINAL REVIEWS AND SIGNO	6003660	0600
X	EQDP 226 DRAFT	6003660	0610
X	EQDP 226 OPEN ITEMS TO RESOLVE	6003660	0620
X	EQDP 226 PLANT VERFI. & VALID.	6003660	0630

Project object	Project object	
EQDP 226 FINAL REVIEWS AND SIGNO	6003660	0640
EQDP 228 DRAFT	6003660	0650
EQDP 228 OPEN ITEMS TO RESOLVE	6003660	0660
EQDP 228 PLANT VERFI. & VALID.	6003660	0670
EQDP 228 FINAL REVIEWS AND SIGNO	6003660	0680
EQDP 232A DRAFT	6003660	0690
EQDP 232A OPEN ITEMS TO RESOLVE	6003660	0700
EQDP 232A PLANT VERFI. & VALID.	6003660	0710
EQDP 232A FINAL REVIEWS AND SIGN	6003660	0720
EQDP 234A DRAFT	6003660	0730
EQDP 234A OPEN ITEMS TO RESOLVE	6003660	0740
EQDP 234A PLANT VERFI. & VALID.	6003660	0750
EQDP 234A FINAL REVIEWS AND SIGN	6003660	0760
EQDP 234C DRAFT	6003660	0770
EQDP 234C OPEN ITEMS TO RESOLVE	6003660	0780
EQDP 234C PLANT VERFI. & VALID.	6003660	0790
EQDP 234C FINAL REVIEWS AND SIGN	6003660	0800
EQDP 254 DRAFT	6003660	0810
EQDP 254 OPEN ITEMS TO RESOLVE	6003660	0820
EQDP 254 PLANT VERFI. & VALID.	6003660	0830
EQDP 254 FINAL REVIEWS AND SIGNO	6003660	0840
MOTOR EQDP. THIS NETWORK IS FOR AC	6003680	
EQDP 23 DRAFT	6003680	0010
EQDP 23 OPEN ITEMS TO RESOLVE	6003680	0020
EQDP 23 PLANT VERFI. & VALID.	6003680	0030
EQDP 23 FINAL REVIEWS AND SIGNOFF	6003680	0040
EQDP 56 DRAFT	6003680	0050
EQDP 56 OPEN ITEMS TO RESOLVE	6003680	0060
EQDP 56 PLANT VERFI. & VALID.	6003680	0070
EQDP 56 FINAL REVIEWS AND SIGNOFF	6003680	0080
EQDP 56A DRAFT	6003680	0090
EQDP 56A OPEN ITEMS TO RESOLVE	6003680	0100
EQDP 56A PLANT VERFI. & VALID.	6003680	0110
EQDP 56A FINAL REVIEWS AND SIGNOF	6003680	0120
EQDP 218 DRAFT	6003680	0130
EQDP 218 OPEN ITEMS TO RESOLVE	6003680	0140
EQDP 218 PLANT VERFI. & VALID.	6003680	0150
EQDP 218 FINAL REVIEWS AND SIGNOF	6003680	0160
EQDP 219 DRAFT	6003680	0170
EQDP 219 OPEN ITEMS TO RESOLVE	6003680	0180
EQDP 219 PLANT VERFI. & VALID.	6003680	0190
EQDP 219 FINAL REVIEWS AND SIGNOF	6003680	0200
EQDP 219A DRAFT	6003680	0210
EQDP 219A OPEN ITEMS TO RESOLVE	6003680	0220
EQDP 219A PLANT VERFI. & VALID.	6003680	0230
EQDP 219A FINAL REVIEWS AND SIGN	6003680	0240
EQDP 219B DRAFT	6003680	0250
EQDP 219B OPEN ITEMS TO RESOLVE	6003680	0260
EQDP 219B PLANT VERFI. & VALID.	6003680	0270
EQDP 219B FINAL REVIEWS AND SIGN	6003680	0280
VALVE OPERATOR EQDP. THIS NETWORK	6003682	
EQDP 31A DRAFT	6003682	0010
EQDP 31A OPEN ITEMS TO RESOLVE	6003682	0020
EQDP 31A PLANT VERFI. & VALID.	6003682	0030
EQDP 31A FINAL REVIEWS AND SIGNO	6003682	0040
EQDP 39A DRAFT	6003682	0050
EQDP 39A OPEN ITEMS TO RESOLVE	6003682	0060
EQDP 39A PLANT VERFI. & VALID.	6003682	0070
EQDP 39A FINAL REVIEWS AND SIGNO	6003682	0080
EQDP 201 DRAFT	6003682	0090
EQDP 201 OPEN ITEMS TO RESOLVE	6003682	0100

Project object		Project object	
	EQDP 201 PLANT VERFI. & VALID.	6003682	0110
	EQDP 201 FINAL REVIEWS AND SIGNOF	6003682	0120
	EQDP 239 DRAFT	6003682	0130
	EQDP 239 OPEN ITEMS TO RESOLVE	6003682	0140
	EQDP 239 PLANT VERFI. & VALID.	6003682	0150
	EQDP 239 FINAL REVIEWS AND SIGNOF	6003682	0160
	EQDP 240 DRAFT	6003682	0170
	EQDP 240 OPEN ITEMS TO RESOLVE	6003682	0180
	EQDP 240 PLANT VERFI. & VALID.	6003682	0190
	EQDP 240 FINAL REVIEWS AND SIGNOF	6003682	0200
	EQDP 255 DRAFT	6003682	0210
	EQDP 255 OPEN ITEMS TO RESOLVE	6003682	0220
	EQDP 255 PLANT VERFI. & VALID.	6003682	0230
	EQDP 255 FINAL REVIEWS AND SIGNOF	6003682	0240
	EQDP 257 DRAFT	6003682	0250
	EQDP 257 OPEN ITEMS TO RESOLVE	6003682	0260
	EQDP 257 PLANT VERFI. & VALID.	6003682	0270
	EQDP 257 FINAL REVIEWS AND SIGNOF	6003682	0280
	EQDP 258 DRAFT	6003682	0290
	EQDP 258 OPEN ITEMS TO RESOLVE	6003682	0300
	EQDP 258 PLANT VERFI. & VALID.	6003682	0310
	EQDP 258 FINAL REVIEWS AND SIGNOF	6003682	0320
	EQDP 259 DRAFT	6003682	0330
	EQDP 259 OPEN ITEMS TO RESOLVE	6003682	0340
	EQDP 259 PLANT VERFI. & VALID.	6003682	0350
	EQDP 259 FINAL REVIEWS AND SIGNOF	6003682	0360
	EQUIPMENT EQDP. THIS NETWORK IS FO	6003683	
	EQDP 68 DRAFT	6003683	0010
	EQDP 68 OPEN ITEMS TO RESOLVE	6003683	0020
	EQDP 68 PLANT VERFI. & VALID.	6003683	0030
	EQDP 68 FINAL REVIEWS AND SIGNOFF	6003683	0040
	EQDP 214 DRAFT	6003683	0050
	EQDP 214 OPEN ITEMS TO RESOLVE	6003683	0060
	EQDP 214 PLANT VERFI. & VALID.	6003683	0070
	EQDP 214 FINAL REVIEWS AND SIGNOF	6003683	0080
	EQDP 230 DRAFT	6003683	0090
	EQDP 230 OPEN ITEMS TO RESOLVE	6003683	0100
	EQDP 230 PLANT VERFI. & VALID.	6003683	0110
	EQDP 230 FINAL REVIEWS AND SIGNOF	6003683	0120
	EQDP 236 DRAFT	6003683	0130
	EQDP 236 OPEN ITEMS TO RESOLVE	6003683	0140
	EQDP 236 PLANT VERFI. & VALID.	6003683	0150
	EQDP 236 FINAL REVIEWS AND SIGNOF	6003683	0160
	EQDP 237 DRAFT	6003683	0170
	EQDP 237 OPEN ITEMS TO RESOLVE	6003683	0180
	EQDP 237 PLANT VERFI. & VALID.	6003683	0190
	EQDP 237 FINAL REVIEWS AND SIGNOF	6003683	0200
	EQDP 247 DRAFT	6003683	0210
	EQDP 247 OPEN ITEMS TO RESOLVE	6003683	0220
	EQDP 247 PLANT VERFI. & VALID.	6003683	0230
	EQDP 247 FINAL REVIEWS AND SIGNOF	6003683	0240
	RELAYS AND SWITCHES EQDP. THIS NET	6003684	
	EQDP 231 DRAFT	6003684	0010
	EQDP 231 OPEN ITEMS TO RESOLVE	6003684	0020
	EQDP 231 PLANT VERFI. & VALID.	6003684	0030
	EQDP 231 FINAL REVIEWS AND SIGNOF	6003684	0040
	EQDP 232 DRAFT	6003684	0050
	EQDP 232 OPEN ITEMS TO RESOLVE	6003684	0060
	EQDP 232 PLANT VERFI. & VALID.	6003684	0070
	EQDP 232 FINAL REVIEWS AND SIGNOF	6003684	0080
	EQDP 244 DRAFT	6003684	0090

Project object	Project object	
├→ EQDP 244 OPEN ITEMS TO RESOLVE	6003684	0100
├→ EQDP 244 PLANT VERFI. & VALID.	6003684	0110
├→ EQDP 244 FINAL REVIEWS AND SIGNOF	6003684	0120
├→ EQDP 256 DRAFT	6003684	0130
├→ EQDP 256 OPEN ITEMS TO RESOLVE	6003684	0140
├→ EQDP 256 PLANT VERFI. & VALID.	6003684	0150
└→ EQDP 256 FINAL REVIEWS AND SIGNOF	6003684	0160
└ MISCELLANIOUS EQDP. THIS NETWORK I	6003685	
├→ EQDP 216 DRAFT	6003685	0010
├→ EQDP 216 OPEN ITEMS TO RESOLVE	6003685	0020
├→ EQDP 216 PLANT VERFI. & VALID.	6003685	0030
├→ EQDP 216 FINAL REVIEWS AND SIGNOF	6003685	0040
├→ EQDP 235 DRAFT	6003685	0050
├→ EQDP 235 OPEN ITEMS TO RESOLVE	6003685	0060
├→ EQDP 235 PLANT VERFI. & VALID.	6003685	0070
├→ EQDP 235 FINAL REVIEWS AND SIGNOF	6003685	0080
├→ EQDP 243 DRAFT	6003685	0090
├→ EQDP 243 OPEN ITEMS TO RESOLVE	6003685	0100
├→ EQDP 243 PLANT VERFI. & VALID.	6003685	0110
├→ EQDP 243 FINAL REVIEWS AND SIGNOF	6003685	0120
├→ EQDP 243A DRAFT	6003685	0130
├→ EQDP 243A OPEN ITEMS TO RESOLVE	6003685	0140
├→ EQDP 243A PLANT VERFI. & VALID.	6003685	0150
├→ EQDP 243A FINAL REVIEWS AND SIG	6003685	0160
├→ EQDP 246 DRAFT	6003685	0170
├→ EQDP 246 OPEN ITEMS TO RESOLVE	6003685	0180
├→ EQDP 246 PLANT VERFI. & VALID.	6003685	0190
└→ EQDP 246 FINAL REVIEWS AND SIGNO	6003685	0200
└→ CNS EQ Other	E/000218/01.03.06	
├ CNS EQ Training Activities	E/000218/01.04	
├ EQ TRAINING FOR ENGINEERS	6003700	
├→ EQ TRAINING IN ESD (EQDP DEV. AND M	6003700	0010
├→ EQ TRAINING IN DED (CED AND EQ INPU	6003700	0020
├→ EQ TRAINING IN PED (PLANT & EQ IMPA	6003700	0030
├→ PROCURE SERVICES FROM NKW, INC.	6003700	0040
├→ AMMENDMENT (CLOSED 12/17/01) SEE I	6003700	0060
├→ AMMENDMENT 3 TO THE CONTRACT	6003700	0070
├→ AMMENDMENT 1 TO THE CONTRACT	6003700	0080
└→ AMMENDMENT 2 TO THE CONTRACT	6003700	0090
├ MAINTENANCE TRAINING	6003701	
├→ MAINTENANCE ELECTRICAL	6003701	0010
├→ MAINTENANCE I & C	6003701	0020
└→ MAINTENANCE MECHANICAL	6003701	0030
├ OPERATION TRAINING	6003702	
├→ LICENSED OPERATORS	6003702	0010
└→ STE INDIVIDUALS	6003702	0020
├ MATERIAL SERVICES TRAINING	6003703	
├→ PROCUREMENT ENGINEERS	6003703	0010
└→ INSPECTORS (QA AND RECEIPT)	6003703	0020
├ LICENSING AND RISK TRAINING	6003704	
├→ LICENSING ENGINEER	6003704	0010
└→ RISK ENGINEER	6003704	0020
└ GENERAL EMPLOYEE TRAINING	6003705	
└→ LESSON PLANS ON GENERAL EQ IN GOT	6003705	0010
├ CNS EQ Project Management & Oversight	E/000218/01.05	
└ CNS-REQUEST FOR POLYCOM SPEAKER PHONE	4199510	
├ REQUEST FOR POLYCOM SPEAKER PHONE	4199510	0010
└ RECEIVE REPLACEMENT POLYCOM	4199510	0020
└→ ITEM #2334D POLYCOM SOUNDSTATION	10033463	10
├→ CNS EQ Project Closure Activities	E/000218/01.06	
└→ CNS EQ Regulatory Support	E/000218/01.07	

	Project object	Project object	
X	> AMENDMENT 3 TO PO 4200000154	6003623	0430
X	> AMENDMENT 2 TO PO4200000154	6003623	0440
X	> AMMENDMENT 2 TO THE ENERCON CONTRACT	6003927	0100
X	> INDEPENDENT OVERSITE BY CONTRACTOR TO	6004008	0100
X	> DETERMINE DESIGN INPUTS FOR HELB	6004025	0010
X	> REVIEW COMPLETED HELB CALCULATIONS	6004025	0020
X	> SORC APPROVAL FOR HELB CALCs	6004025	0030
X	> TECHNOLOGY TRANSFER/TRAINING FOR HELB	6004025	0040
X	> HELB CALCULATION BY APPLIED ANALYSIS COR	6004025	0050
X	> TRAINING AT CNS	6004025	0060
X	> TRAINING AT READING, PA	6004025	0070
X	> ADD'L BREAK LOCATIONS NOT TO EXCEED 10	6004025	0080
X	> DETERMINE DESIGN INPUTS FOR DOSE CALCs	6004026	0010
X	> REVIEW COMPLETED DOSE CALCs	6004026	0020
X	> SORC APPROVAL FOR DOSE CALCs	6004026	0030
X	> TECHNOLOGY TRANSFER/TRAINING FOR DOSE	6004026	0040
X	> ASSESS IMPACT ON OP WATER CHEM (OWC)	6004026	0050
X	> DOSE CALCULATIONS BY APPLIED ANALYSIS CO	6004026	0060
X	> TRAINING AT CNS	6004026	0070
X	> TRAINING AT READING, PA	6004026	0080

Appendix C: Project File Structure

PROJECT PLAN FOR THE EQ IMPROVEMENT PROJECT

A project file shall be maintained during the implementation of the EQ Improvement Project. The structure and content of the project file should, as a minimum, include the following:

A PROJECT ADMINISTRATION

- Project Charter
- Project Plan
- Organization Chart
- Project Instructions
- Position Papers
- Project Roster
- Training Records
- Budget and Cost Estimates
- Schedule
- Status Reports
- Project Scope Change Requests

B PROJECT CORRESPONDENCE AND COMMUNICATION

- Internal Correspondence
- External Correspondence
- NRC Communication (Inspection Reports, NOVs, LERs, etc)
- Records of Telephone Conversations
- Meeting Minutes
- Presentations
- Required Reading

C CONTRACT SERVICES

- Contract Status Summary
- Proposals
- Purchase Orders and Agreements
  (e.g. a file folder for each vendor)
- Managed Tasks
  (MT contracts need a "sub-project" file structure similar to A.1 of 0-CNS-18 Attachment 13)

D AUDITS AND SELF ASSESSMENTS

- September 2000 EQ Program Review (Winston & Strawn)
- Assessment of Programmatic Interfaces and Controls
- QA Audits

E PROJECT CLOSEOUT ACTIVITES

Correspondence Number: NLS2002013

The following table identifies those actions committed to by the District in this document. Any other actions discussed in the submittal represent intended or planned actions by the District. They are described for information only and are not regulatory commitments. Please notify the NL&S Manager at Cooper Nuclear Station of any questions regarding this document or any associated regulatory commitments.

COMMITMENT	COMMITTED DATE OR OUTAGE
None	