



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

SEP 20 2006

Rick A. Muench, President and
Chief Executive Officer
Wolf Creek Nuclear Operating Corporation
P.O. Box 411
Burlington, KS 66839

SUBJECT: MEETING SUMMARY - DISCUSSION OF WOLF CREEK FIRE PROTECTION
PROGRAM

Dear Mr. Muench:

This refers to the management meeting conducted at the U.S. Nuclear Regulatory Commission (NRC) Region IV Office, Arlington, Texas, on September 5, 2006. The meeting attendance list, a copy of the presentation and a copy of the project plan for fire protection are included as Enclosures 1 through 3. No commitments were made by the licensee during the conference.

In accordance with Section 2.390 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda Joy Smith", is written over the typed name.

Linda Joy Smith, Chief
Engineering Branch 2
Division of Reactor Safety

Docket: 50-482
License: NPF-42

Wolf Creek Nuclear Operating Corp.

-2-

Enclosures:

1. Attendance Lists
2. Presentation
3. Project Plan

cc:

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DRS STA (**DAP**)S. O'Connor, OEDO RIV Coordinator (**SCO**)**ROPreports**WC Site Secretary (**SLA2**)SUNSI Review Completed: Y ADAMS: ☒ Yes☐ NoInitials: LJS ☒ Publicly Available☐ Non-Publicly Available☐ Sensitive☒ Non-Sensitive

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ENCLOSURE 1

FIRE PROTECTION PROGRAM PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Wolf Creek Nuclear Operating Corporation
DATE/TIME	September 05, 2006 1:00 - 3:00 p.m. (CDT)
CONFERENCE LOCATION	U.S. Nuclear Regulatory Commission Region IV, Training Conference Room 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011

NAME	ORGANIZATION	TITLE
Terry Suter	WCNOC	Supervisor Fire Protection
Terry Barrett	WCNOC	Vice President Engineering
Bill Mulenburg	WCNOC	Licensing Engineer
Roy Caniano	NRC/RIV/DRS	Deputy Director, DRS
Linda Smith	NRC/RIV/DRS	Chief, Engineering Branch 2
John Mateychick	NRC/RIV/DRS	Senior Reactor Inspector
Greg Werner	NRC/RIV/DRP	Acting Chief, Branch B
Sunil Weerakkody	NRC/NRR/ADRA/DRA/AFP	Chief, Fire Protection Branch*
Edward McCann	NRC/NRR/ADRA/DRA/AFP	Engineer, Fire Protection Branch*
Jeremy Groom	NRC/RIV/DRP/NSPDP	Resident Inspector
Stephen Cochrum	NRC/RIV/DRP	Senior Resident Inspector

*Participated via conference call.



Wolf Creek Fire Protection Program Status Update

September 5, 2006

Scope

- Major FP Program Accomplishments
- Post-Fire Safe Shutdown (PFSSD) Reanalysis Status
- Manual Action Apparent Violation
 - ◆ Historical Approach
 - ◆ Resolution
- PFSSD Project Plan
- FP LER Status
- Status of 2005 FP Triennial Findings (not previously addressed)
- Going Forward....

Major FP Program Accomplishments

■ Classical

- ◆ Implemented a modification to reduce water hammer potential to fire water system.
- ◆ Developed hydraulic calculation for all 42 water-based fire protection systems in the powerblock.
- ◆ Performed a detailed review of fire barrier penetration seal program to satisfy bounding criteria. (IN 88-04)
 - Resulted in several seals requiring field work.
 - Self identified seismic gap seal issue - NRC issued IN 2005-03.
- ◆ Developed a document evaluating unbounded or unique fire barrier configurations.
- ◆ Revised barrier breach procedure to address control of all hazard barrier design functions. (RIS 2001-009)

Major FP Program Accomplishments (Cont'd)

■ PFSSD

- ◆ Completed several plant modifications (both hardware and fire wrap) to address identified PFSSD issues.
- ◆ Developed new PFSSD design documents including:
 - *XX-E-013, Post-Fire Safe Shutdown Analysis*
 - *E-1F9900, Manual Actions*
 - *E-1F9910, Post-Fire Safe Shutdown Area Analysis*
 - *E-1F9001 thru E-1F9444 – Post-Fire Safe Shutdown Logic Diagrams (39 total)*
- ◆ Improved control of 20 ft separation zones between redundant PFSSD components.

PFSSD Reanalysis Effort

- Original Bechtel analysis does not satisfy current regulatory expectation.
- We are in the process of performing a complete PFSSD reanalysis.
- 27 out of 109 fire areas have been completed to date.
- The more risk significant (higher core damage frequency) fire areas were chosen to be reviewed first.

PFSSD Reanalysis Effort (Cont'd)

- We may find more issues, but the more challenging fire areas are complete. Each issue will be entered in our CA Program.
- The reason for number of LERs is that we are performing a conservative, detailed review of each fire area.
 - ◆ A good example of level of rigor is LER 2006-002-00, where it was identified that a fire induced open condition in a fire detection output circuit would shutdown a PFSSD required ventilation unit.
- Our circuit analysis does consider multiple spurious actuations, consistent with draft generic letter guidance.

Manual Actions – Historical Approach

- WCNOC felt strongly that incorporation of manual actions was within our FP license basis, considering our USAR comparison response to Appendix R Section III.G.2.
 - ◆ Position was that “diverse means” included manual actions.
 - ◆ Challenged in 2002 Triennial on this issue with no finding.
- The use of manual actions was not taken lightly, a feasibility review was performed.
- LER and compensatory measures have been initiated where manual actions did not satisfy feasibility requirements. (Example LER 2005-005-00)
- WCNOC does not have a significant number of local manual actions for a fire outside the Control Room (20 different actions total).

Manual Actions - Resolution

- Received NRC letter that recategorized manual action issue to an Apparent Violation with Enforcement Discretion.
(AV 2005008-03)
- ◆ WCNOG will not contest the response provided by the NRC.
- WCNOG has satisfied 9/5/06 due date requirements in effort to receive enforcement discretion. Issue has been entered and evaluated in our corrective action program.
- ◆ Compensatory measures are in place.
- ◆ Action plan has been developed to resolve AV before 3/5/2009 deadline.

Manual Actions – Resolution (Cont'd)

- Action Plan Summary:

1. Perform detailed circuit analysis in accordance with Chapter 3 of NEI 00-01, for issues presently necessitating a manual action.
2. Identify the most effective modification for each issue.
3. Select items that will be addressed by modification.
Design, plan, and implement field change.

Manual Actions – Resolution (Cont'd)

- Action Plan Summary (Cont'd):
 4. Perform a risk analysis addressing feasibility and reliability of manual actions that are not eliminated by modification.
 - Requires License Amendment.
 5. Complete PFSSD fire area circuit analysis and repeat items 2 through 4, as applicable.

PFSSD Project Plan

- PFSSD project plan has been developed.
- PFSSD project plan includes the development of a design basis document for the Control Room evacuation procedure (OFN RP-017).
- Impending revision to PFSSD project plan will also include CR identified actions to address the Apparent Violation for manual actions.
- Monthly update is provided to Management.

FP LER Status

- 2005-001-00, PFSSD circuit separation issue in Fire Area A-1.
 - ◆ Actions complete (1-hour fire wrap provided).
- 2005-005-00, Feasibility of manual actions in Fire Area A-8.
 - ◆ Hourly fire watch in place.
 - ◆ Manual actions have been included in OFN KC-016 as a compensatory measure.
 - ◆ Field changes to be completed by end of RF16 (5/30/2008).

FP LER Status (Cont'd)

- 2005-006-00, OFN RP-017 timing issues (*AV 2005008-05*)
 - ◆ Procedure revised to not restore loss of RCP seal cooling.
 - ◆ Design basis document being developed for OFN RP-017. (1st quarter 2007).

FP LER Status (Cont'd)

- 2005-007-00, Potential loss of diesel generator field flashing for Control Room fire.
 - ◆ Compensatory measure added to procedure.
 - ◆ Final resolution is being worked with OFN RP-017 DBD.

- 2006-001-00, IN 92-18 MOV hot short. (URI 2005008-06)
 - ◆ Hourly fire watch in place.
 - ◆ Operations is revising OFN RP-107 to include mitigating compensatory actions (3/9/2007).
 - ◆ Field work to be complete by end of RF 16.

FP LER Status (Cont'd)

- 2006-002-00, PFSSD circuit separation issue in Fire Area C-35.
 - ◆ Hourly fire watch in place.
 - ◆ Compensatory measure added to OFN KC-016.
 - ◆ Field modification to be complete by 1/31/2009.

Status of Triennial Findings

- NCV 2005008-01, RWST Cold Shutdown Margin
 - ◆ Drain down rate has been established.
 - ◆ OFN RP-014, has been revised to include steps to add fire water and boric acid to RWST.
 - ◆ No further action required.

Status of Triennial Findings (Cont'd)

- AV 2005008-02, Void in reactor when considering multiple spurious actuations.
 - Demonstrated during Triennial that there is no voiding in reactor with one pressurizer PORV open.
 - SLNRC 84-0109 identifies that any one spurious signal is assumed.
 - Industry issue that requires resolution.
 - Understanding is that Draft GL for multiple spurious does not apply to Appendix R III.L areas.

Status of Triennial Findings (Cont'd)

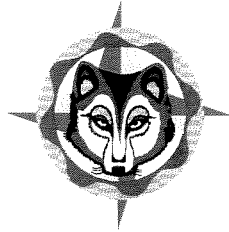
- URI 2005008-04, Phase changes to OFN RP-017.
 - This is being addressed by DBD and supporting thermal hydraulic analysis for OFN RP-017.
- NCV 2005008-03, AV 2005008-05, and URI 2005008-06, were previously discussed.

Going Forward...

- Recent Fire Protection Program efforts have improved ability to achieve and maintain PFSSD due to fire.
- Management commitment to PFSSD project plan will ensure satisfactory resolution of open issues.
- License Amendment request will be pursued where a risk based approach is utilized for manual action feasibility and reliability.
- Wolf Creek is committed to providing a defense in depth Fire Protection Program that satisfies regulatory requirements.

WOLF CREEK NUCLEAR OPERATING CORPORATION

FIRE PROTECTION POST-FIRE SAFE SHUTDOWN ANALYSIS AND RELATED ISSUES



PROJECT PLAN

PROJECT MANAGER - BRIAN FOX

PROJECT DIRECTOR – BRIAN MASTERS

MANAGEMENT SPONSOR - GLENN NEISES

EXECUTIVE SPONSOR - TERRY GARRETT

APRIL 26, 2006

REVISION 1

Wolf Creek Nuclear Operating Corporation

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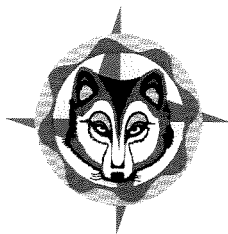
Cost Management Plan and Budget

Risk Management Plan

Appendix

ENCLOSURE 3

**FIRE PROTECTION POST-FIRE SAFE
SHUTDOWN ANALYSIS AND RELATED ISSUES**



PROJECT PLAN

PROJECT MANAGER - BRIAN FOX

PROJECT DIRECTOR – BRIAN MASTERS

MANAGEMENT SPONSOR - GLENN NEISES

EXECUTIVE SPONSOR - TERRY GARRETT

APRIL 26, 2006

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Executive Summary

This project will complete the post-fire safe shutdown re-analysis effort that was started in 1999. This project will also resolve other known issues surrounding the post-fire safe shutdown licensing basis. When this project is completed, Wolf Creek will have a sound technical basis that demonstrates the ability to achieve and maintain safe shutdown following a fire in any plant area.

In support of this project, the project team will prepare design change packages, calculation revisions, engineering evaluations and engineering document changes. In addition, field work will be completed, as necessary, to correct deficiencies identified during the re-analysis.

The plan provides that all engineering and analysis work will be complete by December 31, 2007. Field work and engineering package closeout activities will extend into 2008. All engineering and field work identified in this plan will be complete by December 31, 2008.

External costs include two contractors (one fire protection engineer and one electrical engineer) to support completion of the work scope identified in this plan. The total external cost is approximately \$530,000, to be spent in 2006 and 2007. Contractor support is not currently expected in 2008.

Scope

The scope of work included in this Plan is as follows:

1. Completion of post-fire safe shutdown (PFSSD) area reviews and documentation of the reviews in E-1F9910.
2. Preparation of a design basis document for control room evacuation procedure OFN RP-017.
3. Evaluation and resolution of open PIR's associated with post-fire safe shutdown.
4. Major revision of calculation XX-E-013, post-Fire Safe Shutdown Analysis, which incorporates new changes as well as 6 open calculation change notices (CCN's).
5. Preparation of electrical design change package(s) to address Motor Operated Valve issues identified in NRC IN 92-18 (PIR 2005-3314) and installation of isolation switches and redundant fuses to address timing issues with OFN RP-017 (PIR 2005-3209).
6. Develop PFSSD training for appropriate personnel.

Details of the scope items are provided below.

1. Post-Fire Safe Shutdown Area Reviews

There are 107 fire areas in and around the plant; 18 fire area assessments have been completed and placed in the Wolf Creek document system. The control room is a separate and unique area that will be completed in a different scope item. This leaves 88 areas outside the control room to be completed.

Area reviews for areas outside the control room will be completed using the methodology in E-1F9910 and XX-E-013. Change packages will be completed to place the area reviews into the Wolf Creek document system. Affected documents will be revised, as necessary, to incorporate changes identified in the area reviews.

The number of change packages will impact the cost and schedule of this project. Completing all 88 area reviews and preparing a single change package would have the least impact on cost and schedule. However, it may become difficult to manage the changes within a single change package and it may take over 1 year to complete all remaining area reviews and until the change package is done the reviews will not be available or considered a completed product. It is proposed that no more than 20 area reviews be included in a single change package. Therefore, five change packages are included in this plan.

2. Control Room Fire Area Design Basis Document

The control room is a unique area requiring a different approach from that used for areas outside the control room. A design basis document will be developed that defines the basis for control room evacuation procedure OFN RP-017. The DBD will be used as a design input for future revisions to OFN RP-017 and will be a valuable design document to reference in future NRC Triennial Fire Protection Inspections.

3. PIR Evaluations and Actions

Attachment 1 lists PIR's and corrective action items for various issues involving post-fire safe shutdown. This plan includes completion of the corrective actions and closeout of the PIR's. A number of PIR's require involvement of multiple work groups. The scope of work included in this plan involves coordination between the various work groups to ensure the PIR's are completed in a timely manner. This list of PIRs is expected to grow as the project is worked and the list will be kept as a living document. If items are identified that need to be added to the project, they will be identified in the monthly update if there are impacts to scope, schedule and/or cost. If they do not need to be a part of this effort in Design, then they will be assigned to the fire protection group.

4. Calculation XX-E-013, Post-Fire Safe Shutdown Analysis, Major Revision

Currently, there are 6 CCN's to calculation XX-E-013. Additional changes to the calculation are required. Due to the number of CCN's already outstanding, a complete calculation revision is necessary. The outstanding CCN's will be taken to final status and incorporated in the calculation revision. The revision will also include new changes not currently captured in a CCN.

5. Preparation of Electrical Design Change Packages

In order to address some of the PIR issues listed in Attachment 1, it will be necessary to complete electrical modifications. There are 40 MOV's that need to be modified to address concerns in PIR 2005-3314. In addition, to address OFN RP-017 timing issues identified in PIR 2005-3209, it will be necessary to add isolation switches and redundant fuses on at least 4 MOV's.

6. Develop PFSSD Training for Applicable Personnel

When the PFSSD area reviews are completed, it will be beneficial to provide training to certain personnel whose work could affect the PFSSD analysis. This plan includes determining the required group of individuals that need to be trained and developing the training class.

Scope Management Plan

Scope growth will impact the cost and schedule for completing this project. Scope additions, if approved by the Project Director and Management Sponsor, will be added to the Project Plan and the schedule and cost estimate will be revised accordingly. Scope growth items will be summarized in the monthly status reports.

Objective

This project, when completed, will ensure a sound technical basis for achieving and maintaining post-fire safe shutdown following a fire in any single fire area within the Wolf Creek nuclear power plant. In addition, all known issues regarding post-fire safe shutdown will be addressed and documented.

Deliverables

The following documents will be created/revised as part of this project:

1. E-1F9900 - Post-Fire Safe Shutdown Manual Actions
2. E-1F9910 - Post-Fire Safe Shutdown Area Analysis
3. XX-E-013 - Post-Fire Safe Shutdown Analysis
4. Q-List and Safety Classification Analyses
5. E-15000 (Setroute)
6. Change Package(s) addressing MOV torque switches, redundant fuses and isolation switches
7. Up to 5 change packages to incorporate area reviews into applicable documents.
8. Development of Control Room Fire Area Design Basis Document.
9. Training class for PFSSD.

Schedule Management Plan and Milestone Schedule

Schedule Management Plan

Schedule adherence is critical to ensure the successful and cost effective completion of this project. Project personnel will be cognizant of the schedule and will report any concerns to the Project Manager. The PM will make necessary adjustments to the schedule and will report any cost impact to the Project Director.

Milestone Schedule

A milestone schedule is provided in Attachment 2.

Resource Plan and Staffing

It is expected to use a combination of in-house personnel, one fire protection contractor, one co-op student for the summer and one electrical design contractor, as approved by the PHC, to assist in completing this project. This ensures the most efficient and cost-effective method to complete the tasks in a timely basis.

In-house personnel will possess the necessary qualifications to review and approve change packages and associated documents. The contractor and co-op student will not hold any Wolf Creek qualifications and will require no training. The contractor possesses a Kansas PE License and will be available to prepare and stamp the documents.

The fire protection contractor will primarily be responsible for completing the fire area reviews and generating the necessary change packages. The co-op student will assist the contractor with these duties.

In-house electrical design engineers, assisted by an electrical design contractor, will prepare, review, approve and PE stamp electrical design modifications required to support this project. This includes modifications to the torque switches on MOV's and addition of redundant fuses and isolation switches on certain components.

Project personnel include the following:

Executive Sponsor - Terry Garrett

Management Sponsor - Glenn Neises

Project Director – Brian Masters

Project Manager - Brian Fox

Electrical Design Engineers - Howard Meyer, Deb Dixon

Mechanical Design Engineer - Bill Selbe

Fire Protection Contractor - Brian Fox

Electrical Design Contractor – TBD (As approved by the PHC)

Electrical PE Contract Support: Pat Gove (B&V)

Fire Protection Group Support: Jeff Suter

Co-Op Student - Kyle Hinterweger

Project Reporting and Communication Plan

The WCNOC Project Director will be informed verbally at least weekly by the Project Manager regarding the project status and any areas of concern. A monthly project status report will be developed and distributed to project team members, WCNOC Project Director and the Management Sponsor. If necessary, a meeting will be held to discuss the status report and any areas of concern.

Cost Management Plan and Budget

The use of in-house personnel and a co-op student, to the maximum extent practical, will help to reduce labor costs for this project.

Based on the project schedule, it is anticipated that contractor support will be required through December, 2007. Fire protection contractor support cost for 2006 and 2007, with an estimated 5% escalation in 2007, is as follows:

January 1 to December 31, 2006 - \$228,900

January 1 to December 31, 2007 - \$239,200

One electrical engineering contractor will be utilized to assist Wolf Creek personnel with completing change packages for MOV modifications (Item 5 above). The estimated time necessary to complete the change packages is 740 hours. Approximately 20% of this time will be used by in-house personnel. Therefore, contractor time is approximately 592 hours.

Total estimated electrical contractor cost - \$59,200.00.

Risk Management Plan

This section describes the risks associated with this project and the potential impact on cost and schedule of each risk item.

As fire area assessments are completed, previously unknown issues could surface. These unknown issues could require plant modifications to ensure compliance with the Wolf Creek licensing basis. The issues could also require additional engineering analysis, such as thermo-hydraulic analysis, that was not anticipated. These issues have the potential to impact the scope, cost and schedule. When issues such as this are discovered, the Project Director will be notified and a cost and schedule impact assessment will be performed and presented to the Management Sponsor.

The NRC periodically issues generic communications that seem to re-define the methodology required to perform post-fire safe shutdown analyses. The issuance of these generic communications sometimes requires more than minimal man-hours to evaluate. If the NRC issues generic communications that have positions beyond those used at Wolf Creek, it could have an impact on the scope, cost and schedule. The Project Director will be kept informed if these issues arise.

Wolf Creek is contesting a non-cited violation identified in the 2005 NRC Triennial Fire Protection Inspection regarding the use of manual actions in lieu of protecting redundant trains of equipment. Wolf Creek contends that our licensing basis allows for the use of manual actions in this case. The NRC disagrees and has issued a non-cited violation. If Wolf Creek is unsuccessful, then the manual actions credited would have to be removed and redundant circuits would have to be protected. Alternatively, a deviation request could be submitted to the NRC for approval of the manual actions. In either case, a significant impact on the scope, cost and schedule could be realized. The Project Director and Management Sponsor will be kept informed regarding this issue.

The NRC has endorsed an alternative fire protection licensing basis which, if adopted, allows licensees to use risk-informed methods to resolve fire protection issues. The alternative fire protection licensing basis uses the 2001 edition of National Fire Protection Association (NFPA) Standard NFPA 805, which is codified in Title 10, Section 50.48(c) of the Code of Federal Regulations (10CFR50.48(c)). At this time, Wolf Creek is not planning on adopting NFPA 805. However, if circumstances warrant the adoption of NFPA 805, this will have an impact on the scope and cost of resolving fire protection issues. Completion of the PFSSD area reviews is still a critical part of this project and should proceed despite the decision to adopt NFPA 805.

Appendix

Attachment 1 - List of open PIR's and Corrective Action Items for Post-Fire Safe Shutdown

Attachment 2 - Milestone Schedule

Post Fire Safe Shutdown PIR Summary

PIR #	CA Item #	PIR Level	2005 NRC Triennial FP Inspection Issue		Description	Responsible Group	Assigned Individual	Due Date
			Item #	Type				
2003-3040	N/A	III	N/A	N/A	Callaway triennial inspection issues	Design	Dixon	01/25/07
	1	III	N/A	N/A	Perform area analysis for fire area A-18	Design	Dixon	Closed on 08/17/05
	2	III	N/A	N/A	Perform area analysis for fire area A-21	Design	Fox	10/30/06
	3	III	N/A	N/A	Perform area analysis for fire area C-9	Design	Fox	12/08/06
	4	III	N/A	N/A	Revise PFSSD Documents as applicable	Design	Fox	06/23/06
	5	III	N/A	N/A	Implement change package if necessary.	Maintenance	Gillespe	11/23/06

WOLF CREEK NUCLEAR OPERATING CORPORATION

PIR #	CA Item #	PIR Level	2005 NRC Triennial FP Inspection Issue		Description	Responsible Group	Assigned Individual	Due Date
			Item #	Type				
2005-2757	N/A	II	N/A	N/A	Fire area A-8 (2000 Aux) manual action feasibility	Design	Masters	05/25/08
	1	II	N/A	N/A	Complete fire area A-8 evaluation	Design	Selbe	Closed on 01/25/06
	2	II	N/A	N/A	FP to recommend corrective actions for fire area A-8	Support	Suter	06/16/06
	3	II	N/A	N/A	Develop change package	Design	Stockwell	02/21/07
	4	II	N/A	N/A	Implement change package	Maintenance	Gillespe	03/22/08
2005-3025 2005-3033	5	II	N/A	N/A	Determine additional fire areas to perform area review	Design	Masters	05/15/06
	N/A	III	N/A	N/A	OFN RP-017 phase change typo	Operations	Bodenhamer	06/15/06
	N/A	III	2005008-01	NCV	RWST Draindown and potential return to criticality – Determine available inventory. Needed to feed info to PIR 2005-3364	Design	A. Prakash	Closed on 12/20/05
2005-3054	N/A	IV	N/A	N/A	OFN RP-017 RNO enhancements	Operations	Bodenhamer	06/15/06

WOLF CREEK NUCLEAR OPERATING CORPORATION

PIR #	CA Item #	PIR Level	2005 NRC Triennial FP Inspection Issue		Description	Responsible Group	Assigned Individual	Due Date
			Item #	Type				
2005-3209	N/A	II	2005008-05	AV	OFN RP-017 timing for seal cooling and basis for isolation switches and redundant fuses.	Design	B. Selbe	05/28/06
	1	II	2005008-05	AV	Revise OFN RP-017 to remove steps for seal cooling	Operations	Ray	04/28/06
	2	II	2005008-05	AV	Monitor and address the resolution of the apparent violation	Design	Neises	04/28/06
2005-3314	N/A	II	2005008-06	URI	IN 92-18	Design	Fox	07/31/08
	1	II	2005008-06	URI	Engineering Management will make a determination that clearly establishes a single point of accountability for Fire Protection/PFSSD	Support	Pendergrass	08/31/06
	2	II	2005008-06	URI	Engineering to complete change package to address torque switch concern for 8 risk significant valves.	Design	Masters	01/11/07
2003-3314 (cont.)	3	II	2005008-06	URI	Maintenance Planning to plan the change package in CA Item 2.	Maintenance	Becker	06/23/07
	4	II	2005008-06	URI	Electrical Maintenance to implement the change package in CA Item 3.	Maint - Elect	Rethman	05/31/08
	5	II	2005008-06	URI	Operations to determine if changes to the OFN RP-014 and OFN RP-017 can be made to satisfy the long-term corrective measures for some valves.	Operations	Bodenhamer	07/31/06
	6	II	2005008-06	URI	Operations to revise OFN RP-014	Operations	Bodenhamer	12/31/06

WOLF CREEK NUCLEAR OPERATING CORPORATION

PIR #	CA Item #	PIR Level	2005 NRC Triennial FP Inspection Issue		Description	Responsible Group	Assigned Individual	Due Date
			Item #	Type				
	7	II	2005008-06	URI	Design Engineering to complete a change package to modify the torque switch circuit on remaining valves.	Design	Masters	05/14/07
	8	II	2005008-06	URI	Maintenance Planning to plan the change package in CA Item 7.	Maintenance	Becker	06/23/07
	9	II	2005008-06	URI	Maintenance to implement the change package in CA Item 8.	Maint - Elect	Rethman	05/31/08
	10	II	2005008-06	URI	Present proposed modifications that are required during refuel to the Outage Planning Group for RF 16 consideration.	Design	Masters	09/01/06
2005-3317	N/A	III	2005008-04	URI	Unanalyzed changes to OFN RP-017	Design	Fox	02/01/08
	1	N/A	2005008-04	URI	Design Engineering develop DBD for Control Room Fire	Design	Fox	12/21/07
2005-3331	N/A	III	2005008-02	AV	Bubble in Head. (Failure to maintain subcooling following a fire in the Control Room	Nuclear	W. Wagner	Closed on 01/25/06
2005-3333	N/A	II	N/A	N/A	EDG field flashing concern following a fire in C.R.	Design	Fox	12/29/06
	1	II	N/A	N/A	Develop long-term corrective action plan	Design	Fox	07/31/06
2005-3364	N/A	III	2005008-01	NCV	OFN RP-014 Potential return to criticality	Operations	Bodenhamer	Closed on 01/26/06
2005-3498	N/A	III	N/A	N/A	Review affect of RIS 2005-30	Design	Fox	03/16/07

WOLF CREEK NUCLEAR OPERATING CORPORATION

PIR #	CA Item #	PIR Level	2005 NRC Triennial FP Inspection Issue		Description	Responsible Group	Assigned Individual	Due Date
			Item #	Type				
	1	III	N/A	N/A	Revise assumption in calculation XX-E-013	Design	Fox	11/17/06
	2	III	N/A	N/A	Revise PIR evaluation if necessary based on the results of the NCV challenge on Diverse Means. (PIR 2006-0035)	Design	Fox	02/16/07
2006-0035	N/A	III	2005008-03	NCV	"Diverse Means" interpreted by Wolf Creek to allow manual actions	Licensing	Ken Fredrickson	03/01/07
2006-0369	N/A	III	N/A	N/A	Untimely actions correcting PFSSD	Design	Fox	03/29/08
	1	III	N/A	N/A	Design Engineering will monitor completion of the Post-Fire Safe Shutdown Analysis.	Design	Fox	01/31/08

MILESTONE SCHEDULE FOR POST-FIRE SAFE SHUTDOWN AND RELATED ISSUES					
ITEM NO	TASK	PROJECTED START DATE	PROJECTED COMPLETE DATE	TOTAL PROJECTED ENGINEERING MANHOURS	
1	Group 1 Fire Area Assessments, Change Package Preparation, Supporting Documents, Approve and Release. (Fire Areas: A-6, A-17, A-19, A-20, A-21, A-22, A-28, C-9, C-10, C-35, RWST, TURB)	WORKING	06/30/2006	802	
2	Group 2 Fire Area Assessments, Change Package Preparation, Supporting Documents, Approve and Release. (Fire Areas: A-11, A-13, A-14, A-15, A-23, A-24, A-25, A-29, A-30, C-7, C-12, C-17, C-18, C-21, C-22, C-24, C-30, C-33)	07/10/2006	12/29/2006	1076	
3	Group 3 Fire Area Assessments, Change Package Preparation, Supporting Documents, Approve and Release. (Fire Areas: A-2, A-3, A-4, A-7, A-9, A-10, A-12, A-26, C-5, C-6, C-11, C-13, C-14, C-15, C-16, C-19, C-20, C-25, C-26, C-28)	01/01/2007	04/27/2007	748	
4	Group 4 Fire Area Assessments, Change Package Preparation, Supporting Documents, Approve and Release. (Fire Areas: C-31, C-32, C-34, C-36, C-37, CC-1, D-1, D-2, ESWA, ESWB, ESWV, F-1, F-2, F-4, F-5, F-7, RW-1, T-1, T-2, T-4)	04/30/2007	08/31/2007	680	
5	Group 5 Fire Area Assessments, Change Package Preparation, Supporting Documents, Approve and Release. (Fire Areas: A-5, AB-1, C-2, C-3, C-8, C-29, CST, F-3, F-6, HMS-1, MISC, RWA, RWB, RWC, T-10, YARD, YARD – ESF, YARD – MAIN, SU)	09/03/2007	11/16/2007	384	
6	PIR Evaluations (See Attachment 1 for Tasks and Due Dates)	WORKING	07/31/2008	UNKNOWN	

MILESTONE SCHEDULE FOR POST-FIRE SAFE SHUTDOWN AND RELATED ISSUES				
ITEM NO	TASK	PROJECTED START DATE	PROJECTED COMPLETE DATE	TOTAL PROJECTED ENGINEERING MANHOURS
7	Control Room Evacuation Design Basis Document	07/1/2007	12/21/2007	240
8	Calculation XX-E-013 Revision and Incorporate 6 CCN's	WORKING	06/30/2006	200
9	Prepare, review and approve DCP to modify 2 valves to address NRC IN 92-18 and PIR 2002-2474 (Iso Switch, redundant fuses and torque switch modification)	WORKING	09/26/2006	120
10	Prepare, review and approve DCP to modify 8 risk significant valves to address NRC IN 92-18	07/1/2006	05/31/2008	120
11	Prepare, review and approve DCP to modify 34 non risk significant valves to address NRC IN 92-18	01/01/2007	05/31/2008	500
12	Prepare PFSSD training class	01/01/2008	01/31/2008	80