Progress Energy

Crystal River Nuclear Plant
Docket No. 50-302
Operating License No. DPR-72

Ref: 10 CFR 50.55a

July 10, 2008
3F0708-04

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Subject: Crystal River Unit 3 – Response to Request for Additional Information Regarding Relief Request #07-001-II, Revision 0, Alternate Risk-Informed Selection and Examination Criteria for Examination Category B-F and B-J Pressure Retaining Welds in Accordance with 10 CFR 50.55a(a)(3)(i), TAC No. MD7736

Reference: Crystal River Unit 3 to NRC letter, 3F1207-04, dated December 21, 2007, "Crystal River Unit 3 – Inservice Inspection Program Plan, Ten Year Update"

Dear Sir:

Pursuant to 10 CFR 50.55a(a)(3)(i), Florida Power Corporation (FPC) doing business as Progress Energy Florida, Inc., Crystal River Unit 3 (CR-3) is hereby submitting the response to a Nuclear Regulatory Commission (NRC) request for additional information (RAI) received by email on June 11, 2008. This request for additional information is based on Relief Request #07-001-II, Revision 0.

There are no Regulatory commitments identified in this letter.

If you have any questions regarding this submittal, please contact Mr. Daniel Westcott, Supervisor, Licensing and Regulatory Programs at (352) 563-4796.

Sincerely,

Harry B Cate for

Stephen J. Cahill
Engineering Manager

SJC/par

Attachments:
1. Response to Request for Additional Information
2. Risk-Informed Inservice Inspection (RI-ISI) Update, Crystal River 3, 2007

xc: NRR Project Manager
Regional Administrator, Region II
Senior Resident Inspector

A047
NRR

Progress Energy Florida, Inc.
Crystal River Nuclear Plant
15760 W. Powerline Street
Crystal River, FL 34428

PROGRESS ENERGY FLORIDA, INC.

CRYSTAL RIVER UNIT 3

DOCKET NUMBER 50 - 302 / LICENSE NUMBER DPR - 72

ATTACHMENT 1

Response to Request for Additional Information

Response to Request for Additional Information

NRC Request
Relief Request #07-001-II, Revision 0

1. The relief request includes the following paragraph:

   "The Risk Impact Assessment completed as part of the original baseline RISI Program was an implementation/transition check on the initial impact of converting from a traditional ASME Section XI program to the new RISI methodology. For the Fourth Interval ISI update, there is no transition occurring between two different methodologies, but rather, the currently approved RISI methodology and evaluation will be maintained for the new interval. As such, the original risk impact assessment process is not impacted by the new interval and does not required update."

   The staff does not concur with the implication that, if there is no change in methodology, the change in risk assessment is not part of the living process. Furthermore, the submittal is requesting relief to implement a RI-ISI program instead of an ASME program for the fourth interval so there is a change from the methodology that would normally be used (i.e., without a relief request). RG 1.178, SRP 3.9.8, and the EPRI Topical report (Refs. 1, 2, and 3) require an evaluation of the change in risk arising from the proposed change in the ISI program. Please provide an estimate of the potential change in risk between the RI-ISI program proposed for implementation in the Fourth interval and the ASME Section XI requirements which existed prior to the implementation of the first RI-ISI program.

FPC Response

The current change-in-risk evaluation is documented as the Crystal River Unit 3 (CR-3), Risk Informed Inservice Inspection (RI-ISI) Risk Impact Analysis, Revision 0, which was completed in 2005 and assessed again in Fall 2007. As documented in Section 2.7 of the 2007 living program update, "there is a reduction in risk as a result of implementing the RI-ISI program [decrease in Core Damage Frequency of 5.8E-08] and therefore the acceptance criteria (1E-06/1E-07) are met." The controlling Conditional Core Damage Probability (CCDP) value has not changed from the original 2005 program, and the change in risk analysis remains valid using the latest Probabilistic Risk Assessment (PRA) model.

NRC Request
Relief Request #07-001-II, Revision 0

2. The relief request includes the following paragraph:

   "As an added measure of assurance, any new systems, portions of systems, or components being included in the RISI Program for the Fourth Inspection Interval will be added to the Risk Impact Assessment performed during the previous interval. These components will be addressed within the evaluation at the start of the new interval to assure that the new Fourth Inspection Interval RISI element selection provides an acceptable overall change-in-risk..."

   The evaluations described above should have already been performed and the results of the evaluations made part of a request for relief to support the required finding that the proposed program provides an acceptable level of quality and safety. Please provide a brief description of these evaluations and an overview of the results.

FPC Response

The CR-3 RI-ISI Program is a Class 1 program scope and is three years old since its initial implementation. A living program update was performed in Fall 2007. No major modifications have

been made affecting the RI-ISI program scope, and no systems have been added or removed from the system boundaries considered under the site RI-ISI evaluation process. (Reference Attachment 2)

NRC Request
Relief Request #07-001-II, Revision 0

3. The relief request includes the following sentences:

"These portions of the RISI Program have been and will continue to be reevaluated and revised as major revisions of the site PRA occur and modifications to plant configuration are made. The Consequence Evaluation, Degradation Mechanism Assessment, Risk Ranking, and Element Selection steps encompass the complete living program process..."

Please provide the date of the last reevaluation and revision that is described above and a brief description of the results of the reevaluations and revisions undertaken at that date.

FPC Response

The original CR-3 RI-ISI Program was completed in 2005. A RI-ISI living program update was performed Fall 2007. This update considered plant modifications, consequence of failure, failure potential and service history, risk ranking, element selection, and risk impact. The 2005 program, with the 2007 update, were utilized to establish the bases for the fourth interval RI-ISI Program.

As part of the completed living program assessment, a review of design changes from June 1, 2005 through September 2007, was conducted. There was no change in scope of the RI-ISI Program as a result of this review. As part of the update, the existing consequence evaluation was assessed for changes in initiating event impact and the impact of PRA changes on mitigative system performance. There were no changes required to the consequence ranking results due to the most recent PRA inputs. Likewise, the assessments made in the degradation analysis were confirmed valid and no Degradation Mechanism Assessment changes were required.

PROGRESS ENERGY FLORIDA, INC.

CRYSTAL RIVER UNIT 3

DOCKET NUMBER 50 - 302 / LICENSE NUMBER DPR - 72

ATTACHMENT 2

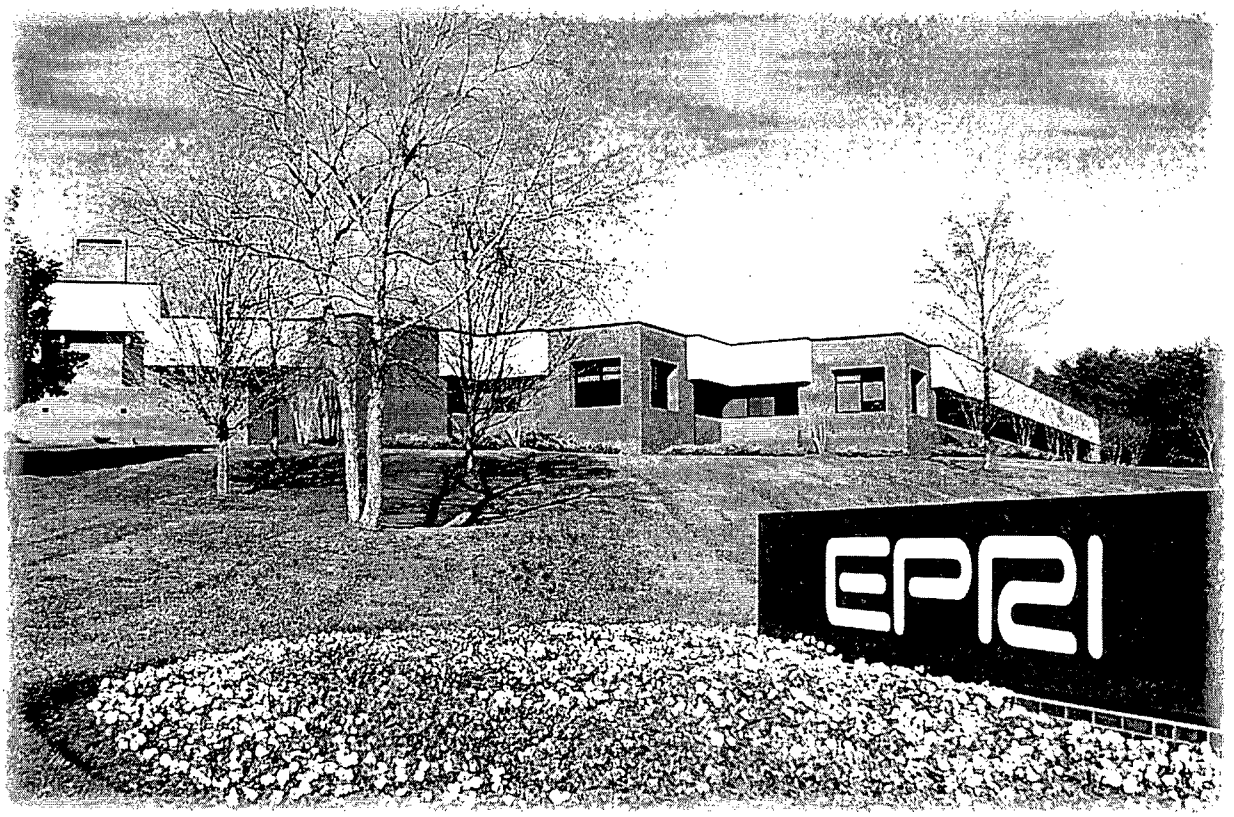
Risk-Informed Inservice Inspection (RI-ISI) Update
Crystal River 3
2007

EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Risk-Informed Inservice Inspection (RI-ISI) Update

- 2007 -

Crystal River 3



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Risk-Informed Inservice Inspection (RI-ISI) Update

Crystal River 3

2007

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Executive Summary

On September 20, 2005 CR3 received approval to implement a RI-ISI program [1]. The CR3 RI-ISI program is known as a Class 1 only program (i.e. applicable portions of examination categories B-F and B-J) and it is founded on the EPRI RI-ISI methodology [2]. As a condition of this approval, CR3 committed to conduct an update to this program in support of maintaining a living RI-ISI program. The following sections document the updating process and results for the CR3 RI-ISI program.

1.0 Background

RI-ISI programs provide alternative selection criteria for the number, location, and NDE technique and examination volumes for piping components. As part of implementing a RI-ISI program, a number of plants have committed to maintaining a living RI-ISI program.

It is important to note that typically the living program requirement of risk-informed applications, above and beyond existing plant practices, is a function of the risk associated with the particular application. Plants have implemented a variety of risk applications, some of which apply to all plants, and others which are voluntary. Mandatory applications include the individual plant examination (IPE and IPEEE), maintenance rule (monitoring and configuration risk assessment) and the process for determining the significance of regulatory findings. Voluntary applications include RI-ISI, risk-informed inservice testing, risk-informed technical specification allowed outage times, other risk-informed technical specification initiatives (missed surveillances, mode restraints), Appendix J option B, risk informed deferrals of integrated leak rate testing, and deletion of hydrogen recombiners.

With the wide variety of applications as noted above, there is a commensurate spectrum of risk impacts. Some applications (e.g. maintenance rule configuration risk assessment) have more significant impacts on plant risk, while others have relatively smaller impacts. Within this spectrum, risk informed ISI is considered to have a relatively small impact on overall plant risk (e.g. core damage frequency and large early release frequency). This small risk impact has been acknowledged by NRC staff and ACRS, and is one of the reasons that risk-informed ISI was one of the first risk applications approved for industry adoption.

With respect to living program requirements, a number of existing plant control processes, such as operating experience review, maintenance rule, and design changes per 10CFR50.59, help maintain the basic assumptions that drive the RI-ISI results and the delta risk impacts of applications over time. In fact, these existing plant programs may be the most important aspects of the "living" RI-ISI program. Further, delta risk impacts of RI-ISI applications are generally constrained to the "very small change" region of the Regulatory Guide 1.174 risk metric guidelines, which is acknowledged to be conservative

with respect to public health impacts as defined in the NRC Safety Goal Policy Statement.

In its simplest terms, risk ranking consists of the combination of failure potential and consequence of failure. Thus, a confirmation that the pressure boundary integrity has been maintained (i.e. failure potential) and that the assumed consequence(s) of component failure is unchanged would meet the intent of the "living" program commitment.

Figure 1 provides an overview of the EPRI RI-ISI methodology. As can be seen from this figure, three inputs are used in developing the risk ranking (risk category) of a RI-ISI program. That is,

- Consequence of failure,
- Likelihood of failure, and
- Service history review.

The following defines the approach taken to conduct the CR3 RI-ISI program update as documented in this report:

Consequence of Failure:

PRA inputs such as initiating event conditional core damage probability and system unavailabilities (e.g. valve failure rates) are key inputs to the consequence assessment. These inputs help determine the final consequence rank for the in-scope piping. As such, provided these remain valid or are conservative (e.g. medium consequence ranking remains medium or lower), significant changes to the RI-ISI consequence analysis will not occur. It is important to note that because the plant only makes changes that meet 10CFR50.59 criteria, plant changes are not expected that would impose risk-significant changes requiring substantial changes to the RI-ISI inspection population.

Likelihood of Failure

A review of inputs used in the degradation mechanism evaluation (e.g. procedures, chemistry manual, reference documents) was conducted. Additionally, plant specific inspection results, including inspections conducted as part of both the RI-ISI program as well as other plant programs (e.g. MRP-139, operator walkdowns) were reviewed. These identified whether failures were occurring, and if so, whether they are being adequately captured by the RI-ISI program or other plant-specific and industry augmented programs.

Service History Review

Review of a site's service history captures the existing ISI program (e.g. NDE results) and other corrective action program results as well as the plant operating experience review program. Not only are plant-specific issues incorporated, but additionally, industry operating experience are reviewed, and as necessary, reflected in revised operating practices (e.g. augmented inspections).

2.0 Current Update

Consistent with the above, a review of pertinent input documents provided by CR3 staff was conducted during 2007. The results of this review and its impact on the RI-ISI program are summarized herein.

2.1 Boundary Definition

Based on discussions with the CR3 ISI engineer and a review of applicable design changes (see section 2.2. below) there were no changes identified as to the scope of the RI-ISI program update.

2.2 Plant Modifications

A review of design changes was conducted. This review covered all design changes closed since June 1, 2005 through September, 2007 [3, 4]. A listing of these changes is provided in Appendix A.

As mentioned above, there was no change in scope of the RI-ISI program as a result of theses changes. Also, as this is a Class 1 only application, it is usually expected that there would be little, to no, impact.

As can be seen in Appendix A, it is quite obvious that the vast majority of these changes do not impact the RI-ISI program or are captured elsewhere (i.e. updated PRA inputs). For examples, the changes apply to secondary side equipment, non safety related equipment, protective relaying, packing replacements, coatings, electrical/I&C equipment and piece parts, piping supports, equivalent valve replacements, etc.

2.3 Consequence of Failure

As discussed above, the CR3 RI-ISI program is a Class 1 only program. As such, the major use of the plant PRA was in defining CCDP / CLERP values for the various sizes of LOCAs. However, as there is some Class 1 piping whose failure will not result in a LOCA, the existing consequence evaluation was assessed not only for changes in initiating event impact (e.g. LOCA) but also the impact of PRA changes on mitigative system performance. However, as the EPRI RI-ISI approach is an order of magnitude approach (e.g. medium consequence rank ranges from 1E-04 to 1E-06 (CCDP)), only significant changes to the PRA are typically expected to result in impacts on the consequence evaluations and therefore the RI-ISI results.

Per Reference [5], inputs from the latest PRA model were provided (CR3_MOR_06). Table 1 provides a summary of CCDP / CLERP values for initiating events from the latest PRA model (Table 1B). Also shown in Table 1 is the resulting consequence rank

based on these updated results and the consequence rank from the original RI-ISI analyses, Reference [6] (Table 1A). As can be seen in Table 1, there are minimal changes to the CCDP/CLERP values of interest (LOCA, RT/TT) and no change to the consequence rankings. There are a few initiating events that changed rank but they went from Medium to Low and also were not used in the RI-ISI consequence analysis.

Additionally, system unavailabilities for mitigative systems in the form of RAW values were provided from the latest model. Per this input, Table 3.9 of Reference 6 has been updated and re-produced as Table 2 of this report. As can be seen in Table 2 while there were small changes in the associated CCDP values, the consequence rank remains the same.

Based upon the above, there are no changes required to the consequence ranking results due to reflecting the most recent PRA inputs.

Finally, as part of this review, the latest version of the outage risk management procedure [7] was reviewed and it was confirmed that the conclusions drawn in the original RI-ISI consequence assessment are still valid.

2.4 Failure Potential & Service History

A review of service history (e.g. exam indications, piping failures) was conducted. This review covered the period of time since implementation of the RI-ISI program. This review is provided in Reference [3].

The results of this review concluded that CR3 continues to monitor industry initiatives (e.g. industry OE, MRP-139) and as necessary conduct plant-specific actions [3, 4].

In addition to the above, a review of the inputs to the RI-ISI degradation mechanisms evaluation [8] was conducted to identify those inputs that need to be assessed for this update. Operating characteristics and system designs have not changed since the degradation mechanisms evaluations were performed. Review of the latest versions of the water chemistry procedure, as well as operating procedures and other important inputs was performed [e.g. 9, 10].

This review concluded that the assessments made in the RI-ISI degradation mechanism evaluation are still valid. Therefore, it is concluded that no changes to the RI-ISI degradation mechanism evaluation or its results are required.

2.5 Risk Ranking Results

The risk ranking portion of the EPRI RI-ISI methodology is built upon the outputs from the consequence assessment and the degradation mechanism evaluation. As such, if the outputs from these two sources do not change (including the reflection of service history, as applicable), then the risk ranking will also not change. That is, high risk locations will remain high risk (e.g. risk category 1, 2 or 3), medium risk locations will remain medium

risk (e.g. risk category 4 or 5) and low risk locations will remain low risk (e.g. risk category 6 or 7).

As a result of this update, no changes were identified that impact the RI-ISI program. As such, there are no changes required to the risk ranking results.

2.6 Element Selection Results

The EPRI RI-ISI methodology requires that 25 percent of high risk locations be subject to NDE requirements and that 10 percent of medium risk locations be subjected to NDE requirements. Other than VT-2 during periodic pressure testing, low risk locations do not require NDE. Per Section 3.6.4.2 of EPRI TR-112657, in addition to examination selection based on risk ranking, if the percentage of Class 1 piping locations selected for examination falls substantially below 10%, the basis for selection needs to be evaluated and justified. Initially, the CR3 RI-ISI Program selected 10.4% of the total population. Thus, the RI-ISI meets this criteria.

2.7 Risk Impact Analysis

This update only identified minor changes in the PRA input, and as such, the risk impacts of these changes are also expected to be minor. As documented in Reference 11, there is a reduction in risk as a result of implementing the RI-ISI program (5.8E-08) and therefore the acceptance criteria (1E-06 / 1E-07) are met. The controlling CCDP value used in the RI-ISI change in risk analysis was 3.5E-02. The controlling CCDP from the updated PSA input remains at 3.5E-02 (LLOCA). Therefore, the existing RI-ISI change in risk analysis remains valid using the latest PSA model.

3.0 Summary

The CR3 RI-ISI application is a Class 1only only application. As such, it is typical that there are little to no changes required of the program as a result of the update process. This review confirmed this assumption as there were some, but not significant, changes to inputs into the RI-ISI program. These changes were captured within existing plant programs and processes and had no impact on the risk ranking and element selection results.

4.0 References

1. USNRC Letter dated September 20, 2005 "Crystal River Unit 3 – Safety Evaluation for Relief Request Regarding the Risk-informed Inservice Inspection Program (TAC No. MC5085)".
2. Revised Risk-Informed Inservice Inspection Procedure, EPRI TR-112657, dated December, 1999.
3. e-mail from M Brannin to P.J. O'Regan, RE: Inputs, dated September 12, 2007.
4. e-mail from M Brannin to P.J. O'Regan, Last of the Inputs, dated September 17, 2007.
5. e-mail from M Brannin to P.J. O'Regan, FW: Reports for Risk Informed Updates, dated July 18, 2007.
6. Risk-informed Inservice Inspection, Consequence Evaluation of Class 1, Crystal River 3, Revision 2.
7. Outage Risk Management Procedure / Program
8. Degradation Mechanism Evaluation for the Class 1 (Category B-J/B-F) Piping at Crystal River Unit 3, Revision 2.
9. Crystal River Unit 3 "Optimized Primary Chemistry Program – Strategic Water Chemistry Plan" Revision 4.
10. CR3 Procedure OPS-4-54 R11 "Decay Heat Removal System."
11. Crystal River Unit 3, RI-ISI Risk Impact Analysis, Revision 0.

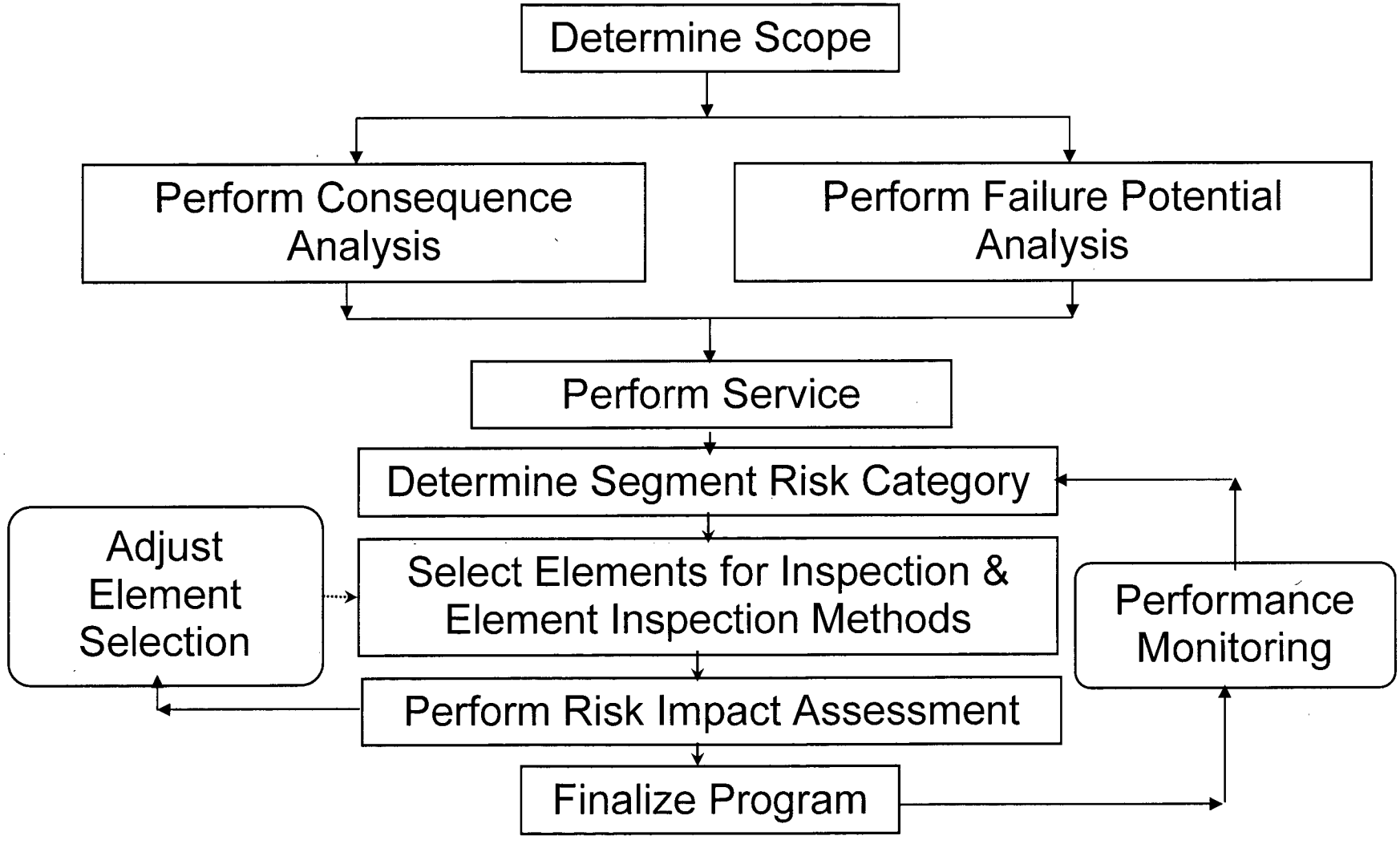
Determine Scope
Perform Consequence Analysis
Perform Failure Potential Analysis
Perform Service
Determine Segment Risk Category
Adjust Element Selection
Select Elements for Inspection & Element Inspection Methods
Performance Monitoring
Perform Risk Impact Assessment
Finalize Program

FIGURE – 1

Table 1A
Initiating Event Table

IE ID	IE Description	IE Frequency [1/yr]	CDF [1/yr]	LERF [1/yr]	CCDP	CLERP	RANK
IE_T1	Reactor/Turbine Trip	8.57E-01	1.66E-07	8.41E-11	1.94E-07	9.81E-11	LOW
IE_T2	Loss of Main Feedwater	2.14E-01	6.35E-08	1.38E-11	2.97E-07	6.45E-11	LOW
IE_T3	Loss of Off-Site Power (swyd/grid)	4.81E-03	2.65E-07	1.22E-10	5.51E-05	2.54E-08	MEDIUM
IE_T4	Excessive Feedwater	3.57E-02	2.92E-07	5.03E-11	8.18E-06	1.41E-09	MEDIUM
IE_T5	Steam/Feedline Break	1.30E-02	9.79E-08	1.69E-11	7.53E-06	1.30E-09	MEDIUM
IE_T7	Spurious ES Actuation	4.94E-02	4.18E-07	7.70E-11	8.46E-06	1.56E-09	MEDIUM
IE_T8	Loss of ES 4160V Bus "A"	3.21E-03	4.31E-08	6.54E-12	1.34E-03	2.04E-09	MEDIUM
IE_T9	Loss of ES 4160V Bus "B"	3.21E-03	2.89E-08	6.25E-12	9.60E-06	1.95E-09	MEDIUM
IE_T10	Loss of Service Water	1.27E-03	8.08E-08	9.54E-11	6.36E-05	7.51E-08	MEDIUM
IE_T11	Loss of Raw Water	1.61E-07	1.35E-10	1.42E-13	8.39E-04	8.82E-07	HIGH
IE_T12	Loss of Battery Backed Bus "A"	4.10E-03	8.21E-09	5.94E-12	2.00E-06	1.45E-09	MEDIUM
IE_T13	Loss of Battery Backed Bus "B"	4.10E-03	2.55E-08	6.28E-12	6.22E-06	1.53E-09	MEDIUM
IE_T14	Loss of Battery Backed Bus "C"	4.10E-03	7.48E-07	1.30E-10	1.82E-04	3.17E-08	HIGH
IE_T15	Loss of Off-Site Power (SUT/BEST)	1.18E-01	4.36E-07	4.97E-10	3.69E-06	4.21E-09	MEDIUM
IE_T16	Loss of Makeup	1.20E-03	1.26E-07	2.96E-11	1.05E-04	2.47E-08	HIGH
IE_A	Large Break LOCA	5.00E-06	1.74E-07	7.88E-11	3.48E-02	1.58E-05	HIGH
IE_M	Medium Break LOCA	4.00E-05	1.77E-07	7.62E-11	4.43E-03	1.91E-06	HIGH
IE_S	Small Break LOCA	5.00E-04	2.43E-06	4.71E-10	4.86E-03	9.42E-07	HIGH
IE_R	Steam Generator Tube Rupture (SGTR)	2.90E-03	3.26E-07	3.05E-07	1.12E-04	1.05E-04	HIGH
IE_V	Interfacing Systems LOCA (ISLOCA)	5.14E-08	5.14E-08	5.14E-08	1	1	HIGH
IE_Z	Reactor Vessel Rupture	5.00E-07	5.00E-07	2.38E-10	1	4.76E-04	HIGH

Table 1B
Initiating Event Table

Initiating Event	Description	IE Frequency	CDF	CCDP	LERF	CLERP	RANK
IE_A	Large LOCA	5.00E-06	1.74E-07	3.48E-02	7.63E-11	1.53E-05	High
IE_M	Medium LOCA	4.00E-05	1.09E-07	2.73E-03	4.52E-11	1.13E-06	High
IE_R	SGTR	3.00E-03	3.53E-07	1.18E-04	3.17E-07	1.06E-04	High
IE_S	Small LOCA	5.00E-04	1.52E-06	3.04E-03	2.52E-10	5.04E-07	High
IE_T1	Scram/TT	1.10E+00	2.73E-07	2.48E-07	4.59E-11	4.17E-11	Low
IE_T10	Loss of NSCCC	1.31E-03	1.07E-07	8.17E-05	3.54E-12	2.70E-09	Medium
IE_T11	Loss of RW/UHS	1.16E-04	3.14E-07	2.71E-03	4.46E-11	3.84E-07	High
IE_T12	Loss of DC "A"	4.10E-03	1.62E-08	3.95E-06	0.00E+00	0.00E+00	Medium
IE_T13	Loss of DC "B"	4.10E-03	5.17E-08	1.26E-05	2.47E-13	6.02E-11	Medium
IE_T14	Loss of DC "C"	4.10E-03	7.74E-08	1.89E-05	7.01E-12	1.71E-09	Medium
IE_T15	LOSP (partial)	1.89E-02	1.29E-09	6.83E-08	0.00E+00	0.00E+00	Low
IE_T16	Loss of Makeup	1.81E-03	1.53E-07	8.45E-05	8.79E-12	4.86E-09	Medium
IE_T2	Loss of Main FW	2.40E-01	1.22E-07	5.08E-07	1.18E-11	4.92E-11	Low
IE_T3	LOSP (swyd/grid)	7.27E-03	3.03E-07	4.17E-05	2.50E-11	3.44E-09	Medium
IE_T4	Excessive FW	4.10E-02	4.75E-08	1.16E-06	2.07E-12	5.05E-11	Medium
IE_T5	Steam/Feedline Break	1.30E-02	2.72E-08	2.09E-06	2.18E-13	1.68E-11	Medium
IE_T7	Spurious ES	5.00E-02	6.34E-08	1.27E-06	3.58E-12	7.16E-11	Medium
IE_T8	Loss of 4160V "A"	3.21E-03	2.63E-07	8.19E-05	2.00E-12	6.23E-10	Medium
IE_T9	Loss of 4160V "B"	3.21E-03	6.42E-08	2.00E-05	1.54E-12	4.80E-10	Medium
IE_V	ISLOCA	5.14E-08	5.14E-08	1.00E+00	5.14E-08	1.00E+00	High
IE_Z	RV Rupture	5.00E-07	5.00E-07	1.00E+00	2.37E-10	4.74E-04	High

Table 2: CCDP Values for Train Loss

CDF BASE CASE [1/yr]:	Basecase 6.83E-06	Update 4.66E-06		Basecase				Update				
System Lost	**Equivalent Component**	**Failure Mode**	**RAW**	**CDF [1/yr] (Given the loss of the system)**	**Exposure Time [yrs]**	**CCDP**	**Rank**	**RAW**	**CDF [1/yr] (Given the loss of the system)**	**Exposure Time [yrs]**	**CCDP**	**Rank**
Loss of Train A of DHR/CF Injection	CV: CFV-1	FTO	1.11	7.6E-06	1	7.5E-07	LOW	1.13	5.3E-06	1	6.1E-07	LOW
Loss of Train B of DHR/CF Injection	CV: CFV-3	FTO	1.11	7.6E-06	1	7.5E-07	LOW	1.13	5.3E-06	1	6.1E-07	LOW
Loss of MU Injection to RCP-1A Discharge	CV: MUV-43	FTO	1.01	6.9E-06	1	6.8E-08	LOW	1.09	5.1E-06	1	4.7E-07	LOW
Loss of MU Injection to RCP-1B Discharge	CV: MUV-42	FTO	1.01	6.9E-06	1	6.8E-08	LOW	1.09	5.1E-06	1	4.7E-07	LOW
Loss of MU Injection to RCP-1C Discharge	CV: MUV-36	FTO	1.01	6.9E-06	1	6.8E-08	LOW	1.03	4.8E-06	1	1.4E-07	LOW
Loss of MU Injection to RCP-1D Discharge	CV: MUV-37	FTO	1.01	6.9E-06	1	6.8E-08	LOW	1.09	5.1E-06	1	4.7E-07	LOW

Appendix A

Design Changes

EC Number	EC Type SubType	Date Set to Modified	EC Title
48032	PCHG-DESG	20051117	DPDP-4A/4B FUSE COORDINATION REVISE/CHANGE FUSES FOR DPDP-4A/4B (FUSE COORDINATION)
48082	PCHG-DESG	20051007	INSTALL ANALOG MULTIPLEXER TO ICS CPCO-118 (MUX 26) (REV. 6 - SPARE 7 POINTS) REV. 8 ADMIN REVISION TO DELETE CPCO-118 FROM AEL
48082	PCHG-DESG	20060425	INSTALL ANALOG MULTIPLEXER TO ICS CPCO-118 (MUX 26) (REV. 9 CONNECT 8 OF 9 POINTS DISCONNECTED IN REVISION 6) REV. 10 ADMIN REVISION TO CORRECT ERRORS ON 209-175 SHEETS 3 & 4
48089	PCHG-ALTR	20051207	"A" CONTROL ROD DRIVE TRANSFORMER REPLACEMENT
48089	PCHG-ALTR	20060427	"A" CONTROL ROD DRIVE TRANSFORMER REPLACEMENT
48690	PCHG-DESG	20050603	MODIFY FIRE SVC SYS DELUGE VALVES THIS "CHILD" EC SPARES EQUIPMENT ASSOCIATED WITH FSV-122 ON 124' ELEVATION CONTROL COMPLEX
48691	PCHG-DESG	20050817	MODIFY FIRE SVC SYS DELUGE VALVES THIS "CHILD" EC DELETES THE TRIP INTERLOCK FOR AHF 14A FROM FSV-112.
48692	PCHG-DESG	20050808	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-14B FAN TRIP) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48692	PCHG-DESG	20050819	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-14B FAN TRIP) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT. SEE MASTER EC 48051
48701	PCHG-DESG	20050627	MODIFY FIRE SVC SYS DELUGE VALVES THIS "CHILD" EC IS FOR IMPLEMENTING THE PORTION OF EC 48051 (MASTER EC) AFFECTING FSV-296 (FSCP-32) IN TSC.
48713	PCHG-DESG	20050603	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-18B FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48714	PCHG-DESG	20050808	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-7A FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48715	PCHG-DESG	20050808	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-7B FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48716	PCHG-DESG	20050603	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-44A FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48717	PCHG-DESG	20050603	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-44B FAN TRIP) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48718	PCHG-DESG	20050623	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-14C FAN TRIP) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48719	PCHG-DESG	20050808	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-14D FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48719	PCHG-DESG	20050823	MODIFY FIRE SVC SYS DELUGE VALVES (DELETE AHF-14D FAN INTERLOCK) REVISION 1 INCORPORATES FCN 1 INTO THE PACKAGE, DELETING FAN TRIPS AND SPARING FSV-122 EQUIPMENT.
48784	PCHG-COMM	20050623	DOCUMENT COMPUTER CABLE BETWEEN HOT SHOP AND COLD SHOP. REF. REA 02-0004
49232	PCHG-DESG	20051219	EH FLUID PUMP LOW LEVEL LOCKOUT LOGIC MODIFICATION

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49953	PCHG-DESG	20060515	REPLACE PLANT SECURITY COMPUTER PSCS-1 AND UPGRADE EXISTING SECURITY MULTIPLEXERS PSMU-1, 2, 3 AND 4
51260	PCHG-DESG	20060817	ELIMINATE RC PUMP MOTOR VIBRA SWITCHES (OUTAGE WORK) THIS IS A CHILD EC FROM MASTER EC 49097.
51724	PCHG-DESG	20060106	EQ EVALUATIONS OF NEW FORMULA RAYCHEM SPLICE MATERIALS AND KITS PER EQ TEST REPORTS EDR-5336 AND EDR-5389
52418	PCHG-COMM	20060127	REMOVAL OF OBSOLETE CHART RECORDER RC-154-PR/TR
52418	PCHG-COMM	20060202	REMOVAL OF OBSOLETE CHART RECORDER RC-154-PR/TR
52418	PCHG-COMM	20060607	REMOVAL OF OBSOLETE CHART RECORDER RC-154-PR/TR
52418	PCHG-COMM	20060608	REMOVAL OF OBSOLETE CHART RECORDER RC-154-PR/TR REV. 5 IS AN ADMIN REV. TO CORRECT DRAWING 212-047 RCR020 CIRCUITS RCR191 THRU RCR198 TO ADD CIRCUIT REVISION LEVELS
52418	PCHG-COMM	20060911	REMOVAL OF OBSOLETE CHART RECORDER RC-154-PR/TR REV. 5 IS AN ADMIN REV. TO CORRECT DRAWING 212-047 RCR020 CIRCUITS RCR191 THRU RCR198 TO ADD CIRCUIT REVISION LEVELS
52436	PCHG-DESG	20050701	(CHILD) "C" CIRCULATING WATER SYSTEM DEBRIS FILTER & CONDENSER TUBE CLEANING SYSTEM REPLACEMENT
52444	PCHG-DESG	20050701	(CHILD) "D" CIRCULATING WATER SYSTEM DEBRIS FILTER & CONDENSER TUBE CLEANING SYSTEM REPLACEMENT
52590	PCHG-COMM	20051126	CWV-136 REMOVAL - CHILD TO EC 50245 ADMININSTRATIVE CHANGE TO ALLOW TURNOVER/CLOSURE OF THE EC
52943	PCHG-DESG	20061109	SDT-1 TRENCH AND PIPE TO SETTLING POND. REV 2: ADMINISTRATIVE CHANGE
53808	PCHG-DESG	20060505	CHILD EC, TO CORRECT GROUNDING @ RM-A1I DETECTOR PREAMPLIFIERS. CHILD EC FOR RM-A1I.
53824	PCHG-DESG	20050822	CHILD EC, TO CORRECT GROUNDING @ RM-A4G DETECTOR CANCEL PER DIRECTION NCR 75097-26 AND MASTER EC 52697R6
53843	PCHG-DESG	20050817	CHILD EC, TO CORRECT GROUNDING @ RM-A8G DETECTOR
54010	PCHG-DESG	20060118	FSV-1181 NEW FIRE SERVICE RELIEF VALVE ADMINISTRATIVE CHANGE TO ADD NEW 50.59 NUMBER
54238	PCHG-DESG	20060426	CHILD - INSTALL A DRAIN VALVE ON CHHE-1B COOLER MARINE BOX
54693	PCHG-DESG	20060407	RECORDER REPLACEMENT FOR RC-19A/19B-PR1/PR2.
54745	PCHG-COMM	20060109	INSTALL MAST ROTATION ASSEMBLY ON FHCR-1 AND INSTALL THE TARGET ASSEMBLY FOR THE LOAD TEST FIXTURE, BOTH DEFERRED TO 14R. (DELETED FROM EC 52021 DURING 13R)
55094	PCHG-DESG	20051105	REVISE B.E.S.T. GROUND DIFFERENTIAL RELAYING TIME DIAL SETTING FROM 1 TO 0.5
55314	PCHG-DESG	20051011	CR-3 DEDICATED 12 KV FEEDER REV. 3 DELETES THE REQUIREMENT TO INSTALL CONCRETE BARRIER ADJACENT TO CONDUIT ON SOUTH BERM ZONE 8
55315	PCHG-DESG	20060807	ALTERNATE AC DIESEL GENERATOR
55315	PCHG-DESG	20061011	ALTERNATE AC DIESEL GENERATOR
55315	PCHG-DESG	20061128	ALTERNATE AC DIESEL GENERATOR

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55315	PCHG-DESG	20070118	ALTERNATE AC DIESEL GENERATOR
55512	PCHG-DESG	20050829	LOOSE PARTS MONITORING SYSTEM SOFTWARE SPECIFICATION
55544	PCHG-DESG	20060314	CR3C15 RELOAD DESIGN AND SAFETY ANALYSIS
55544	PCHG-DESG	20060607	CR3C15 RELOAD DESIGN AND SAFETY ANALYSIS
55544	PCHG-DESG	20060608	CR3C15 RELOAD DESIGN AND SAFETY ANALYSIS
56246	PCHG-DESG	20060623	EVALUATE REPLACEMENT FOR DLP-14 MOTOR
56246	PCHG-DESG	20060626	EVALUATE REPLACEMENT FOR DLP-14 MOTOR
56298	PCHG-DESG	20051120	ALTERNATE AC DIESEL GENERATOR (R14 BEST TIE -IN) REV. 3 IS AN ADMINISTRATIVE REVISION TO CORRECT DWG. 206-011
56504	PCHG-DESG	20051202	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR DHV-34 THIS EC PERFORMS ALL THE ELECTRICAL WORK ASSOCIATED WITH CIRCUIT REROUTES AND CONTROL COMPONENT RELOCATION
56504	PCHG-DESG	20051205	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR DHV-34 THIS EC PERFORMS ALL THE ELECTRICAL WORK ASSOCIATED WITH CIRCUIT REROUTES AND CONTROL COMPONENT RELOCATION
56505	PCHG-DESG	20051118	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR DHV-35
56506	PCHG-DESG	20051013	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR DHV-42
56507	PCHG-DESG	20051013	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR BSV-3 REV. 1 IS ADMINISTRATIVE TO ADD AFFECTED CALCS TO ADL
56508	PCHG-DESG	20051020	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR BSV-4
56508	PCHG-DESG	20060113	RESOLVE APPENDIX R CIRCUIT ROUTING ISSUES FOR BSV-4
56555	PCHG-COMM	20070220	FSV-10 DELUGE VALVE REPLACEMENT ADD SOLEOID RESET SWITCH
57874	PCHG-DESG	20050714	EMERGENCY LIGHTING FOR VARIOUS FIRE AREAS IN THE AUX. BUILDING
57875	PCHG-DESG	20050714	APPENDIX R- EMERGENCY LIGHTING FOR CONTROL COMPLEX CHILLER OPERATION FIRE AREA CC-164-121
57880	PCHG-COMM	20050916	FSV-82 DELUGE VALVE REPLACEMENT .
57880	PCHG-COMM	20051018	FSV-82 DELUGE VALVE REPLACEMENT REV 3 -ADMIN REV TO CORRECT ADL DWG 49-463SH SYS 6 SHT 6 TO DWG 49-463SH SYS 9 SHT 5. NO CHANGE TO FOLDER.
57915	PCHG-DESG	20070315	AHF-1B RECALL POINT 215 INDICATES OFF WITH FAN RUNNING REV 2 ADMINISTRATIVE REVISION TO ADD VALIDATION PLAN REV 3 ADMIN REVISION TO CORRECT AEL INC REQUIREMENT
57945	PCHG-COMM	20050916	FSV-67 DELUGE VALVE REPLACEMENT
57945	PCHG-COMM	20051018	FSV-67 DELUGE VALVE REPLACEMENT ADMIN REV. TO ADD DWG. 212-031 FSE31 TO ADL & SECTION C00
57982	PCHG-DESG	20050928	ALTERNATE AC DIESEL GENERATOR SWITCHGEAR SPECIFICATION SPECIFICATION CR3-E-0001 REV. 2

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58212	PCHG-DESG	20051204	INSTALLATION OF CONDUIT AND CABLE IN THE REACTOR BUILDING TO PROVIDE PERMANENT POWER TO LOCATIONS PRESENTLY SUPPLIED BY TEMPORARY POWER FOR OUTAGE ACTIVITIES ON THE STEAM GENERATORS.
58212	PCHG-DESG	20060726	INSTALLATION OF CONDUIT AND CABLE IN THE REACTOR BUILDING TO PROVIDE PERMANENT POWER TO LOCATIONS PRESENTLY SUPPLIED BY TEMPORARY POWER FOR OUTAGE ACTIVITIES ON THE STEAM GENERATORS.
58248	PCHG-COMM	20050916	REPLACE FSV-72 AND FSV-239
58346	PCHG-DESG	20051210	SPVR - HIGH PRIORITY, CDHE-1A/1B/2A/2B, HIGH-HIGH LEVEL THIS IS ASSOCIATED WITH ECR-4745
58425	PCHG-DESG	20060330	INSTALL NEW TRANSFER SWITCHES DPXS-1G & DPXS-1H (IN SUPPORT OF ALTERNATE AC DIESEL PROJECT)
58426	PCHG-DESG	20060109	DPBC-1H TRANSFER SWITCH (DPXS-1H) TIE-IN (IN SUPPORT OF ALTERNATEAC DIESEL PROJECT)
58468	PCHG-DESG	20060307	ADD FIRE SERVICE BRANCH CONNECTION AND ISOLATION VALVE TO MAIN HEADER
58531	PCHG-DESG	20051203	FWT-1 LEVEL SWITCH MODIFICATIONS (SHOEMAKER TO TAKE TO PRG)
58531	PCHG-DESG	20060914	FWT-1 LEVEL SWITCH MODIFICATIONS (SHOEMAKER TO TAKE TO PRG)
58614	PCHG-DESG	20060303	14R MODS, IN THE AREA OF THE OTSG'S, TO SUPPORT STEAM GENERATOR REPLACEMENT METROLOGY
58635	PCHG-DESG	20060117	PRESSURIZER PLATFORM EXTENSION IN "A" D-RING AT ELEVATION 156'-0"
58646	PCHG-DESG	20060307	REFUEL CAVITY SPIRAL STAIRCASE REV. 3: INCORPORATE RFR (REV. 2)& CLARIFY SHIM DETAIL
58688	PCHG-DESG	20051201	GOVERNOR VALVE TERMINATION BOX FOR LVDT AND SERVO VALVES (REFERENCE ECR-1608)
58689	PCHG-DESG	20051219	"A" CONTROL ROD DRIVE VOLTAGE REGULATOR REPLACEMENT
58689	PCHG-DESG	20060427	"A" CONTROL ROD DRIVE VOLTAGE REGULATOR REPLACEMENT
58690	PCHG-DESG	20051205	"B" CONTROL ROD DRIVE TRANSFORMER REPLACEMENT
58690	PCHG-DESG	20060427	"B" CONTROL ROD DRIVE TRANSFORMER REPLACEMENT
58692	PCHG-DESG	20051219	"B" CONTROL ROD DRIVE VOLTAGE REGULATOR REPLACEMENT
58692	PCHG-DESG	20060427	"B" CONTROL ROD DRIVE VOLTAGE REGULATOR REPLACEMENT
58698	PCHG-COMM	20050712	MARITIME TRANSPORTATION SECURITY ACT OCA CAMERAS
58699	PCHG-COMM	20050630	MICROWAVE RELOCATION/IIDS REPLACEMENT FOR ZONES 14, 15, AND 16 REV. 3 - REVISION TO REFLECT PHYSICAL INSTALLATION CHANGES
58699	PCHG-COMM	20051103	MICROWAVE RELOCATION/IIDS REPLACEMENT FOR ZONES 14, 15, AND 16 REV. 4 - ADD MISSED DRAWING TO ADL
58699	PCHG-COMM	20051122	MICROWAVE RELOCATION/IIDS REPLACEMENT FOR ZONES 14, 15, AND 16 REV. 5 - DELETE SUPERSEDED SECURITY PLAN (PSP) FROM ADL
58700	PCHG-DESG	20060608	CONTINUOUS DISSOLVED GAS ANALYZERS FOR THE STEP-UP TRANSFORMERS REV. 6 IS AN ADMIN REVISION TO DWG. 212-004 ACF20 TO ADD CIRCUIT REVISION LEVELS FOR CIRCUITS ACF192 THRU ACF196

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58700	PCHG-DESG	20060807	CONTINUOUS DISSOLVED GAS ANALYZERS FOR THE STEP-UP TRANSFORMERS REV. 6 IS AN ADMIN REVISION TO DWG. 212-004 ACF20 TO ADD CIRCUIT REVISION LEVELS FOR CIRCUITS ACF192 THRU ACF196
58700	PCHG-DESG	20061121	CONTINUOUS DISSOLVED GAS ANALYZERS FOR THE STEP-UP TRANSFORMERS.
58701	PCHG-COMM	20050719	ACP VEHICLE BARRIER ACTUATION FROM CAS AND SAS REVISION 1 INSTALLED TWO ADDITIONAL SOLENOIDS.
58702	PCHG-DESG	20051208	REPLACE THE STEP-UP TRANSFORMER SUDDEN PRESSURE (63) RELAYS
58754	PCHG-DESG	20050901	INSTALLATION OF A SHAFT GUARD ON DHV-7 ACTUATOR DRIVE SHAFT
58755	PCHG-DESG	20060501	DHV-8 SHAFT GUARD ON ACTUATOR REV 2 - ADMINISTRATIVE CHANGE TO CLARIFY U-BOLT TORQUE
58982	PCHG-DESG	20070831	REACTOR BUILDING SUMP STRAINER MODIFICATIONS CR3 TAG NOS: WDSU-1, WDX-10, WDX-11, WDX-12 14R PROJECT
59245	PCHG-DESG	20060307	INSTALL THREE HOUR RATED FIRE BARRIERS FOR APPENDIX R CIRCUIT REROUTES FOR DHV-34 AND DHV-42 (ECS 56504 & 56506).
59285	PCHG-COMM	20050603	REPLACEMENT ANNUNCIATOR FOR HYDROGEN MONITORING PANEL REV. 1 IS ADMINISTRATIVE CHANGE
59331	PCHG-COMM	20050706	EHPU-1 REPLACEMENT
59334	PCHG-COMM	20050916	REPLACE FSV-69
59356	PCHG-COMM	20050916	REPLACE FSV-61
59357	PCHG-COMM	20050916	REPLACE FSV-64
59358	PCHG-COMM	20050916	REPLACE FSV-66
59358	PCHG-COMM	20051018	REPLACE FSV-66 ADMIN CHANGE TO ADD DWG 215-202 TO ADL, NO CHANGE TO FOLDER
59358	PCHG-COMM	20060223	REPLACE FSV-66 ADMIN CHANGE TO ADD DWG 215-202 TO ADL, NO CHANGE TO FOLDER
59396	PCHG-DESG	20050817	"C" DEBRIS FILTER DRIVE UNIT PLANETARY REDUCER INSTALLATION REVISION 4: ANCHORAGE DETAILS FOR STEP LADDER
59396	PCHG-DESG	20060308	"C" DEBRIS FILTER DRIVE UNIT PLANETARY REDUCER INSTALLATION REVISION 5: ADMINISTRATIVE REVISION TO REVISE ADL.
59429	ED-	20060818	TO EVALUATE THE LAYDOWN SPACE REQUIREMENTS, TEMPORARY PARKING AND TEMPORARY AND PERMANENT FACILITIES REQUIRED FOR THE STEAM GENERATOR PROJECT DURING RFO-16
59476	PCHG-DESG	20051202	RB SUMP LEVEL INSTRUMENTATION MODIFICATIONS
59476	PCHG-DESG	20060324	RB SUMP LEVEL INSTRUMENTATION MODIFICATIONS
59476	PCHG-DESG	20070212	RB SUMP LEVEL INSTRUMENTATION MODIFICATIONS
59477	PCHG-DESG	20050921	RB SUMP STRAINER SPECIFICATION
59596	PCHG-DESG	20051120	FEEDWATER PUMP DEMAND FUNCTION GENERATOR CURVE CHANGE. IC-571-FW AND IC-581-FW
59637	PCHG-DESG	20070702	CYCLE 14 APSR WITHDRAWAL STRATEGY

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59651	PCHG-DESG	20060131	REDUCED APSR USE
59757	PCHG-ALTR	20051117	CFV-17/18/19 AND 20 ALTERNATIVE REPLACEMENT WITH EPDM DISC INSERT ENGINEERING CONTROL IS NOT REQUIRED
59799	PCHG-DESG	20060117	CHILD: PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT HPI LINE TO MUV-42 AT RCP-1B
59887	PCHG-DESG	20060307	SNUBBER REPLACEMENT DURING 14R
59893	PCHG-DESG	20060803	GW-42-FIT INSTALLATION - CHILD EC MASTER EC 48900 - GW SYSTEM UPGRADE PROJECT
59894	PCHG-DESG	20050711	GWV-3 REPLACEMENT - CHILD EC MASTER EC 48900 - GW SYSTEM UPGRADE PROJECT
59895	PCHG-DESG	20050708	GWV-5 REPLACEMENT -CHILD EC MASTER EC 48900 - GW SYSTEM UPGRADE PROJECT
59913	PCHG-DESG	20051101	CHILD: MUH-761 PIPE SUPPORT MODIFICATIONS OUTSIDE CONTAINMENT
59914	PCHG-DESG	20060307	CHILD: MUH-768 PIPE SUPPORT MODIFICATIONS OUTSIDE CONTAINMENT
59915	PCHG-DESG	20060123	CHILD: RWH-27 & RWH-70A PIPE SUPPORT MODIFICATIONS OUTSIDE CONTAINMENT
59916	PCHG-DESG	20051101	CHILD: SWH-150A PIPE SUPPORT MODIFICATIONS OUTSIDE CONTAINMENT
59925	PCHG-DESG	20060123	CHILD: FWH-126, FWH-127, FWH-129 SNUBBER REMOVAL PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59926	PCHG-DESG	20060222	CHILD: FWH-130 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59927	PCHG-DESG	20060117	CHILD: FWH-599 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59928	PCHG-DESG	20060123	CHILD: MUH-1086 AND MUH-1087 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59929	PCHG-DESG	20051205	CHILD: SWH-372 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59930	PCHG-DESG	20060227	CHILD: SWH-471 AND SWH-472 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59931	PCHG-DESG	20051205	CHILD: SWH-494A, SWH-495A, SWR-526, & SWR-527
59931	PCHG-DESG	20060222	CHILD: SWH-494A, SWH-495A, SWR-526, & SWR-527
59932	PCHG-DESG	20060123	CHILD: SWH-265 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59934	PCHG-DESG	20060110	CHILD: CR3-P-4123 SW-1 & CR3-P-4124 SW-2 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59939	PCHG-DESG	20060222	CHILD: MSH-170 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
59944	PCHG-DESG	20060222	CHILD: MUH-51 PIPE SUPPORT MODIFICATIONS INSIDE CONTAINMENT
60150	PCHG-DESG	20050914	DISCONNECT WATT HOUR METER FROM OPT
60150	PCHG-DESG	20051012	DISCONNECT WATT HOUR METER FROM OPT ADMIN REV TO DELETE SP-300 FROM ADL PER OPS.
60155	PCHG-DESG	20050914	DISCONNECT WATT HOUR METER "AL" FROM BACKUP ES TRANSFORMER

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60155	PCHG-DESG	20051012	DISCONNECT WATT HOUR METER "AL" FROM BACKUP ES TRANSFORMER REV. 4 - ADMIN REV. TO DELETE SP-300 FROM ADL PER OPS.
60244	PCHG-DESG	20051122	"D" DEBRIS FILTER DRIVE UNIT PLANETARY REDUCER INSTALLATION
60302	PCHG-COMM	20051019	RESOLVE PROBLEM WITH WHITE PERMISIVE LIGHT FOR RB PURGE SUPPLY FANS AHF-6A AND AHF-6B (AR#106462) CAT. 2, PRI 2, RR
60324	PCHG-DESG	20051115	MSH-169 SNUBBER REMOVAL DURING 14R PRI 2, CAT 2, 14R DESIGN CIVIL/STRUCTURAL
60528	PCHG-DESG	20051103	RM-A12 FLOW FILTER INSTALLATION
60529	PCHG-DESG	20060712	CHILD EC WILL CHANGE LONG TIME DELAY SETTING IMPLEMENTED ON MTSW-3J-2B(SS-4 TRIP UNIT) FROM THE EXISTING SETTING OF MAXIMUM DELAY TO THE NEW SETTING OF INTERMEDIATE DELAY (REF MASTER EC 59740)
60665	PCHG-DESG	20060807	SWV-299/300/306/307 TIE-OFF REV- 1: ADMINISTRATIVE CHANGE BASED ON FEEDBACK FROM OP'S
60755	PCHG-COMM	20050728	REVISE TURBINE GLAND STEAM INSTRUMENT DATA SHEETS
60763	PCHG-DESG	20050926	ALTERNATE AC DIESEL GENERATOR (PRE-R14 OUTAGE)
60919	PCHG-DESG	20050623	INSTALLATION OF SECURITY BULLET RESISTANT POSITION STATIONS TURBINE AND SPENT FUEL BUILDINGS
60944	PCHG-COMM	20050913	WASTE GAS ANALYZER SAMPLE COOLER INSTALLATION ADMIN CHANGE
60986	PCHG-COMM	20050725	DELAY BARRIERS FOR PHASE IV SECURITY UPGRADES REV. 1 IS AN ADMINISTRATIVE REVISION FOR REVIEWER COMMENTS
60986	PCHG-COMM	20050725	DELAY BARRIERS FOR PHASE IV SECURITY UPGRADES REV. 2: ADMIN REV ADDING COMMENT ABOUT REMOVABLE FENCE PANELS
60992	PCHG-COMM	20050727	EFP-3 ROOF CONCEALMENT BARRIER FOR PHASE IV SECURITY UPGRADE REV.2: ADMIN REV DOCUMENTING "INTERNAL" FENCE MOUNTING OPTION
61000	PCHG-DESG	20051202	REPLACE GENERATED MEGAWATTS TRANSDUCERS MWT-1 AND MWT-2
61013	PCHG-DESG	20051114	RELOCATE PRESSURIZER HEATER LOSS OF DC POWER INTERLOCK AUXILIARY RELAY RC-3-AR4 TO NNI CABINET 4
61015	PCHG-DESG	20051202	TRICON GROUNDING UPGRADE
61022	PCHG-DESG	20060308	MSV-28 VALVE REPLACEMENT (SEE ME 6788R00 FOR REPLACEMENT VALVE DETAILS)
61028	PCHG-DESG	20050825	EGDG-1B FUEL HEADER MODIFICATION TO PREVENT FUEL HEADER DEPLETION
61030	PCHG-DESG	20050811	EGDG-1A FUEL HEADER MODIFICATION TO PREVENT FUEL HEADER DEPLETION
61032	PCHG-COMM	20050801	REVISE PLC LADDER LOGIC FOR "C" CONDENSER TUBE CLEANING SYSTEM
61032	PCHG-COMM	20060207	REVISE PLC LADDER LOGIC FOR "C" CONDENSER TUBE CLEANING SYSTEM
61032	PCHG-COMM	20060713	REVISE PLC LADDER LOGIC FOR "C" CONDENSER TUBE CLEANING SYSTEM
61042	ED-	20050616	NEED ENGINEERING ASSISTANCE TO CHANGE ENCLOSURE 7 OF OP-402.
61056	PCHG-COMM	20050801	REVISE PLC LADDER LOGIC FOR "D" CONDENSER TUBE CLEANING SYSTEM
61056	PCHG-COMM	20060207	REVISE PLC LADDER LOGIC FOR "D" CONDENSER TUBE CLEANING SYSTEM

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61056	PCHG-COMM	20060713	REVISE PLC LADDER LOGIC FOR "D" CONDENSER TUBE CLEANING SYSTEM
61150	PCHG-COMM	20070210	CORRECT DESIGN DEFICIENCIES IDENTIFIED BY CALC. E90-0044, REV. 4 FOR THE MACHINE SHOP MCC 3 (MTMC-20) AND ACDP 47 WHERE THE AVAILABLE SHORT CIRCUIT CURRENT EXCEEDS THE SHORT CIRCUIT RATING.
61152	PCHG-COMM	20060509	REPLACE ACDP-127 CIRCUIT BREAKERS DUE TO EXCEEDING OF AVAILABLE SHORT CIRCUIT EQUIPMENT RATING (NCR 00157825)
61153	PCHG-COMM	20060918	REPLACE ACDP-156 CIRCUIT BREAKERS DUE TO EXCEEDING OF AVAILABLE SHORT CIRCUIT EQUIPMENT RATING (NCR 00157825)
61169	PCHG-DESG	20051208	RCV-31 WELD CAP TO END OF PIPE.
61302	PCHG-DESG	20050906	UPDATE NUCLEAR APPLICATION SOFTWARE SYSTEM (NAS) WITH NEW CORE LOAD DATA/CALCULATIONS FOR R14 (REFERENCE EC 59637 - CYCLE 14 APSR WITHDRAWAL STRATEGY AND CYCLE EXTENSION)
61347	PCHG-DESG	20060223	"A" TRAIN SLUR ALARM RELAY SETPOINT CHANGE
61348	PCHG-DESG	20060223	"B" TRAIN SLUR RELAY ALARM SETPOINT CHANGE
61379	PCHG-DESG	20060424	CHILD EC, TO CORRECT GROUNDING @ RM-A2P DETECTOR THIS CHILD WILL RESTORE GROUNDING TO ORIGINAL CONFIGURATION
61408	PCHG-DESG	20060110	FOURTH REACTOR COOLANT PUMP START TEMPERATURE INTERLOCK SETPOINT CHANGE. REV. 1 IS A MINOR ADMINISTRATIVE REVISION
61464	PCHG-DESG	20060922	REACTOR COOLANT SYSTEM PH CONTROL
61474	PCHG-DESG	20050721	SWP-2A GROUT BASEPLATE
61619	PCHG-DESG	20051108	FUSE SIZE CHANGES AND CABLE REPLACEMENT PER CALC E91-0015R1 REF. NCR 60678-5 REROUTE CIRCUIT RSF5 AND RSF15 (FROM MASTER EC 60931)
61619	PCHG-DESG	20060303	FUSE SIZE CHANGES AND CABLE REPLACEMENT PER CALC E91-0015R1 REF. NCR 60678-5 REROUTE CIRCUIT RSF5 AND RSF15 (FROM MASTER EC 60931)
61620	PCHG-DESG	20051111	FUSE SIZE CHANGES AND CABLE REPLACEMENT PER CALC E91-0015R1 REF. NCR 60678-5 RESIZE CHF20 FUSE (VBDP-11-5-FU-01)
61621	PCHG-DESG	20051114	FUSE SIZE CHANGES AND CABLE REPLACEMENT PER CALC E91-0015R1 REF. NCR 60678-5 RESIZE EFF42 FUSE (VBDP-8-4-FU-01)
61622	PCHG-DESG	20051114	FUSE SIZE CHANGES AND CABLE REPLACEMENT PER CALC E91-0015R1 REF. NCR 60678-5 RESIZE RSF16 FUSE (VBDP-9-3-FU-01)
61713	PCHG-DESG	20050805	MSV-187 HINGE PIN PLUG SEAL WELD
61858	PCHG-DESG	20051207	RESTORE PLANT OPERATION ON UNIT AUXILIARY TRANSFORMER
61858	PCHG-DESG	20060516	RESTORE PLANT OPERATION ON UNIT AUXILIARY TRANSFORMER
61891	PCHG-DESG	20060316	REPLACE MCC BREAKERS FOR NON-1E BATTERY CHARGER DPBC-1G (REFERENCE MASTER EC-61237) (REFERENCE ECR-5737)
61895	PCHG-DESG	20060316	REPLACE MCC BREAKERS FOR NON-1E BATTERY CHARGER DPBC-1H (REFERENCE MASTER EC-61237) (REFERENCE ECR-5737)
61897	PCHG-DESG	20060316	REPLACE MCC BREAKERS FOR NON-1E BATTERY CHARGER DPBC-1I (REFERENCE MASTER EC-61237) (REFERENCE ECR-5737)
62013	PCHG-COMM	20060829	REMOVE UNSUPPORTED FIRE SPRINKLER PIPE
62058	PCHG-COMM	20060926	REMOVE THE EYEWASH HEADER TANK (DOT-3) - SEE NOTES REV 2 - SEE FILE FOLDER A00R2 FOR CHANGE

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62061	PCHG-DESG	20070402	SP-332 MFWI TESTING TEST SWITCH "A" CHANNEL
62067	PCHG-DESG	20070328	SP-332 MFWI TESTING TEST SWITCH "B" CHANNEL
62173	PCHG-DESG	20060131	UPDATE NUCLEAR APPLICATION SOFTWARE SYSTEM (NAS) WITH NEW CORE LOAD DATA/CALCULATIONS FOR R14 (REFERENCE EC 55544) AND ADD MISCELLANEOUS NEW COMPUTER POINTS.
62207	PCHG-DESG	20051210	ICS TRACK DEADBAND EXPANSION & ANALOG MEMORY MODULE INSTALLATION
62218	PCHG-DESG	20051013	REINSTALL CLUTCH TRIPPER FINGERS IN DHV-34 NOTE: THIS EC WAS CREATED FROM ORIGINAL EC 56504 TO PERFORM TRIPPER FINGER INSTALLATION PREOUTAGE (SEE XREF)
62219	PCHG-DESG	20051020	REINSTALL CLUTCH TRIPPER FINGERS IN DHV-35 THIS EC WORK IS BEING TAKEN FROM EC 56505 FOR TURNOVER PURPOSES (PREOUTAGE INSTALLATION FOR DOSE REDUCTION)
62372	PCHG-COMM	20061221	CHANGE CIV-68 TO 125 PSIG SET PRESSURE THIS EC SUPERSEDES ECR5821 CURRENT VALVE IS LEAKING PAST SEAT
62372	PCHG-COMM	20061222	CHANGE CIV-68 TO 125 PSIG SET PRESSURE REV 1: PLANNED ADMINISTRATIVE CHANGE TO COMPLETE AR'S AND ADD EXISTING RELIEF VALVE DATA.
62419	PCHG-COMM	20060203	CHILD - ONLINE RELOCATE CONTROLLER GS-7-PC ON-LINE INSTALLATION CHILD ADMIN REVISION TO AEL DUE TO CHANGES IN MASTER EC 61690R2
62541	PCHG-COMM	20060117	REPLACMENT OF CAMX-3, MOTOR
62647	PCHG-DESG	20061218	BATTERY/INVERTER POWER TO EFIC OTSG RECALL POINTS CHILD EC #3 FROM MASTER EC 62212 IMPLEMENT CHILD EC #3 INSTRUCTIONS FROM MASTER EC 62212
62722	PCHG-DESG	20060117	MS SAFETY RELIEF VALVE MANUAL LIFTING DEVICE REMOVAL
62746	PCHG-COMM	20051205	INSTALL HIGH TEMP PIGTAIL FOR RCV-10 TO CABLE RCE64
62784	PCHG-COMM	20051205	INSTALL JUNCTION BOX ON MAIN TURBINE GENERATOR FOR FLUX METER TEST CONNECTION
62786	PCHG-DESG	20060413	ISSUE A REVISION TO THE EQ PLANT PROFILE DOCUMENT WHICH REFLECTS A CHANGE IN ENVIRONMENTAL CONDITIONS FROM A 40 YEAR TO 60 YEAR PLANT LIFE. THIS IS IN SUPPORT OF CR3 PLANT LIFE EXTENSION.
62857	PCHG-COMM	20070711	REPLACE VIBRATION MONITORING FIBER OPTICS PENETRATION FLANGES ON TBTG-1 WITH BLANK FLANGES. **HYDRO - #3 OF 12 HI ECS (12-15-05)**
62864	PCHG-DESG	20051204	RCP MOTOR REPLACEMENT (ELECTRICAL) RCP-1D REV. 2: AS-BUILD 208-047 RC-024 (LEGACY MAR 92-01-02-03)
62864	PCHG-DESG	20051205	RCP MOTOR REPLACEMENT (ELECTRICAL) RCP-1D REV. 2: AS-BUILD 208-047 RC-024 (LEGACY MAR 92-01-02-03)
62868	PCHG-DESG	20051205	(CHILD) RCP-1D MOTOR LUBE OIL COLLECTION/LUBE OIL SYSTEMS REPLACEMENT
62872	PCHG-DESG	20060527	DL-11-TS RELOCATION ON EGDG-1A
62878	PCHG-DESG	20051129	TBF-1B BREAKER TRIP SETTING CHANGE
62880	PCHG-COMM	20060117	TURBINE LUBE OIL RESERVOIR VAPOR EXTRACTOR FLOW IMPROVEMENT
62923	PCHG-COMM	20051222	INSTALL CONDENSATE ISOLATION VALVE FOR SDT-1 RELEASE

EC Number	EC Type SubType	Date Set to Modified	EC Title
62945	PCHG-COMM	20060224	FSV-1211 NEW FIRE SERVICE RELIEF VALVE FOR FSV-1139 TRIM
62953	PCHG-COMM	20060224	FSV-1212 NEW FIRE SERVICE RELIEF VALVE FOR FSV-1151 TRIM
62954	PCHG-COMM	20060620	FSV-832 ADD NEW RELIEF VALVE IN TRIM
62955	PCHG-COMM	20061219	FSV-822 ADD NEW RELIEF VALVE IN TRIM
62956	PCHG-COMM	20070131	FSV-641 ADD NEW RELIEF VALVE IN TRIM
63059	PCHG-DESG	20060112	DO-2-PS SETPOINT CHANGE
63242	PCHG-DESG	20060525	EGDG-1A MODIFIED TAPPET DRAIN REV 1 - ADD A SECOND TAPPET DRAIN CONNECTION
63250	PCHG-DESG	20060509	DL-12-TS RELOCATION ON EGDG-1B
63281	PCHG-DESG	20060330	2006Q1 UPDATE - CR3 PLANT PROCESS COMPUTER SYSTEMS (EM & CP)
63287	PCHG-DESG	20060527	REPLACE EGDG-1A 480 VAC CONTACTORS
63288	PCHG-DESG	20060508	REPLACE EGDG-1B 480 VAC CONTACTORS
63484	PCHG-DESG	20060303	REMOVE DOV-233
63487	PCHG-COMM	20060403	INSTRUCTIONS FOR SERVERON COMMUNICATION WITH OSI/PI
63496	PCHG-COMM	20061208	"DO" SYSTEM RE-ROUTE COMPONENT COOLING CONFIGURE DO WITHIN THE PLANT SUCH THAT ALL COMPONENT COOLING COMES OFF THE DO STORAGE TANK.
63515	PCHG-DESG	20060327	MTTR-3B REPLACEMENT
63515	PCHG-DESG	20060712	MTTR-3B REPLACEMENT
63613	PCHG-COMM	20070125	FSV-642 ADD NEW RELIEF VALVE IN TRIM
63638	PCHG-COMM	20061220	FSV-892 ADD NEW RELIEF VALVE IN TRIM
63639	PCHG-COMM	20070124	FSV-48 ADD NEW RELIEF VALVE IN TRIM
63640	PCHG-COMM	20070124	FSV-59 ADD NEW RELIEF VALVE IN TRIM
63641	PCHG-COMM	20061219	FSV-56 ADD NEW RELIEF VALVE IN TRIM
63642	PCHG-COMM	20061220	FSV-100 ADD NEW RELIEF VALVE IN TRIM
63719	PCHG-COMM	20060327	COMPUTER POINTS A308/309/310 BRIDGE CORRECTION
63725	PCHG-DESG	20060417	"DC" SMALL BORE PIPE SUPPORT CHANGE
63748	PCHG-DESG	20060803	DF-7-LI REMOVAL
63749	PCHG-DESG	20060803	DF-8-LI REMOVAL

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63829	PCHG-COMM	20070226	REROUTE ASV-34 AND ASV-35 DISCHARGE COVER DRAIN
63888	PCHG-COMM	20061011	REROUTE RHV-11 AND RHV-12 DISCHARGE DRAINS FROM THR ROOF DRAIN SYSTEM TO THE FLOOR DRAIN SYSTEM
64014	PCHG-DESG	20070710	CR3 DISTRIBUTED CONTROL SYSTEM (DCS) INFRASTRUCTURE
64141	PCHG-DESG	20060613	CR-3 PIPING SPECIFICATION SP-5206 (REV 8) REVISION
64169	PCHG-DESG	20070226	INSTALL SHOOTING POSITION PLATFORM INSIDE TURBINE BUILDING
64337	PCHG-COMM	20060623	ADD NEW COMPUTER PONT FOR RB LEVEL INDICATION
64353	PCHG-DESG	20060802	CARS-3 PRESSURE INCREASE
64424	PCHG-DESG	20070313	ABANDONMENT OF LIQUID WASTE DISPOSAL SYSTEM HEAT TRACING
64492	PCHG-DESG	20060713	DH-37-JX POWER SUPPLY REPLACEMENT
64666	PCHG-COMM	20070108	BYPASS OF LOW PRESSURE CUTOUT FOR WDP-1A AND WDP-1B.
64769	PCHG-DESG	20070517	RCBT FEED OVERPRESSURE RESOLUTION
64769	PCHG-DESG	20070524	RCBT FEED OVERPRESSURE RESOLUTION
64769	PCHG-DESG	20070726	RCBT FEED OVERPRESSURE RESOLUTION
64804	PCHG-COMM	20070502	FIRE PUMP HOUSE SPRINKLER MOD. TO COMPLY WITH NFPA-13 ADMINISTRATIVE CHANGE TO ADD AS-BUILT DWG.
64805	PCHG-COMM	20070504	95' CONTROL COMPLEX SPRINKLER MOD. TO COMPLY WITH NFPA-13 ADMIN CHANGE TO CLARIFY TESTING
64805	PCHG-COMM	20070523	95' CONTROL COMPLEX SPRINKLER MOD. TO COMPLY WITH NFPA-13 ADMIN / PLANNED REVISION FOR AS-BUILDING DRAWINGS
65001	PCHG-DESG	20061211	CHANGE BREAKER SETTING FOR DLP-14, MTMC-25, UNIT 3B
65168	PCHG-COMM	20070614	CDP-1B PIT CORNER PLATE TOOL TO AIDE WITH TRANSPORTING THE CDP-1B MOTOR/COUPLING REV 1 - ADMIN CHANGE TO AS-BUILT DWG
65208	PCHG-COMM	20070316	H-202 REPLACE DOORS & LOCK
65227	PCHG-DESG	20070501	REPLACE FIRE DOOR C-502
65228	PCHG-DESG	20070816	REPLACE FIRE DOOR C-503 PER ECR 8330 AND UPGRADE PER ECR 7247
65264	PCHG-DESG	20070828	MODIFY/REPLACE CYCLONE SEPARATOR AND REPLACE SEAL ON DHP-1B (CORR 169248)
65275	PCHG-COMM	20070502	CENTRAL ALARM STATION (CAS) FRESH AIR VENTILATION
65324	PCHG-DESG	20070316	INSTALL TWO (2) MAGNETIC LOCKS ON DOOR H202
65389	PCHG-DESG	20070418	REPLACE OBSOLETE RECORDER MT-190-EIR WITH NEW DIGITAL PAPERLESS RECORDER. PART OF EPPL PLAN AR 65847 SEE NOTES PANEL FOR EC REVISIONS
65666	PCHG-COMM	20070226	CWP-2C MOTOR REPLACEMENT

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65666	PCHG-COMM	20070308	CWP-2C MOTOR REPLACEMENT REV. 1 ADMINISTRATIVE REVISION TO LINK NEW MOTOR MMV IN PASSPORT
65882	PCHG-DESG	20070621	MODIFY/REPLACE CYCLONE SEPARATOR ON DHP-1A (CORR 169248-05)
65882	PCHG-DESG	20070719	MODIFY/REPLACE CYCLONE SEPARATOR ON DHP-1A (CORR 169248-05)
65883	PCHG-DESG	20070621	MODIFY/REPLACE CYCLONE SEPARATOR ON BSP-1A (AR 169248)
65883	PCHG-DESG	20070719	MODIFY/REPLACE CYCLONE SEPARATOR ON BSP-1A (AR 169248)
65884	PCHG-DESG	20070828	MODIFY/REPLACE CYCLONE SEPARATOR ON BSP-1B (CORR 169248)
65907	PCHG-DESG	20070307	MODIFY CP & EM DAYLIGHT SAVINGS TIME (DST) START AND END DAYS PER SAST 177250
65926	ED-	20070426	ASV-204 CALIBRATION DATA SHEET REVISION 7
65944	PCHG-DESG	20070424	DAYLIGHT SAVINGS TIME UPDATE TO PLANT SECURITY SYSTEM (PS)
66383	PCHG-COMM	20070529	CIHE-1A/B DW WATER SUPPLY NO REVISION WAS NECESSARY. NO CHANGES TO THE FOLDER WERE MADE.
66385	PCHG-COMM	20070502	CWTS-2 MOTOR TRIP LEVER
66695	PCHG-COMM	20070425	TBP-9 MOTOR REPLACEMENT
67135	ED-	20070529	BSV-16 CALIBRATION DATA SHEET REVISION 5
67170	PCHG-COMM	20070905	REPLACE TB-160-PIT EQUIPMENT ADMINISTRATIVE REVISION TO REMOVE REQUIREMENT TO ISSUE PERMANENT REVISION TO SP-300 - TEMPORARY CHANGE IS PERMITTED.
67316	PCHG-COMM	20070806	CHANGE CX DEMIN RESIN TRAP HIGH DP ALARM TO 18.5 PSID