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4.2.4 EVALUATION OF CONSTRUCTION QUALITY ASSURANCE

4.2.4.1 Introduction

PGandE advised NRC-NRR of their intent to proceed with such an evaluation of Construction Quality Assurance (CQA) by letter of September 7, 1982, following verbal presentation at a September 1, 1982, NRC-IDVP PGandE meeting. The "Adjunct Program for Evaluation of Construction Quality Assurance" was a Quality Assurance Audit of a representative sample of construction activities. It was termed an "Adjunct Program" to the Phase II Program because it was to be performed under the direction of the IDVP Program Manager, TES; by an organization which was participating in the IDVP, SWEC. The evaluation was to be performed in accordance with the applicable portions of the Phase II Program Management Plan; in the general time frame of the Phase II Program; but, was not design-related nor required by the Commission Order or Staff Letter so was not an essential part of the IDVP Phase II Program.

The "Adjunct Program for Evaluation of CQA" was issued by TES on October 5, 1982, with the following overall objectives:

> "... to assess whether the construction of Diablo Canyon was performed in accordance with quality requirements appropriate for the time of plant construction. The approach is to evaluate the work of two of the principal contractors which performed work important to safety at the plant. The review is structured to provide reasonable confirmation that the construction quality program meets the applicable standards for the time of nuclear power plant construction.
>
> "The review will start with an evaluation of whether the construction documentation gives confidence that the construction

work correctly incorporates essential design features. To confirm this, samples of actual construction will be used to verify that the facilities were correctly built and that other construction requirements were met."

The two construction contractors selected by PGandE, the scope of their work, and the applicable ITR were:

- Guy F. Atkinson Co. (GFA) -- civil/structural work on the containment building (see ITR-36).

- Wismer & Becker (W-B) -- installation of NSSS piping (see ITR-38).

An appropriate sample for evaluation was selected from the work of each contractor to provide evidence of his quality practices in each major area of activity. The documents used during this review to determine the extent of compliance with the requirements were those applicable to the contractors when their work was performed.

With the purpose of implementing the overall objective, Section 3.0 of the CQA Plan provided the following definition for each of these tasks:

a. Task A - Quality Assurance

"Evaluate the two designated contractors' quality programs to determine if adequate controls and practices to assure the quality of construction and the incorporation of essential design features into the completed plant were evident and to determine if controls were consistent with applicable NRC requirements at the time the work was performed."

b. Task B - Construction Verification Review

"Evaluate if physical installation of selected components of safety systems and structures conforms to the requirements of design drawings and specifications; and that required inspections were performed."

c. Task C - Processing of Findings

"Review all Potential Findings identified during the review and provide for evaluating and classifying the significance of Potential Findings."

4.2.4.2 Task Implementation

Detailed descriptions of the three tasks included in this program and a fourth (Task D), on reporting, are given in the following:

a. Task A - Quality Assurance Program Evaluation

The specified evaluations were conducted by experienced auditors qualified and certified in accordance with ANSI N45.2.23. Areas and items examined and the results of the examination were identified and documented on checklists. The checklists were developed, as appropriate, to:

- Evaluate each contractor's QA program and procedures to determine if practices adequate to assure that construction requirements (i.e., drawings, instructions, specifications) were met by those responsible for the construction activity.

- Evaluate each contractor's QA program to determine if practices covering audits and inspections were adequate.

- Evaluate each contractor's QA program to determine if practices governing the identification, control, and dispositioning of construction nonconformances were adequate.

Checklist attributes for GFA were developed based on requirements of PGandE Specification 8831R "Construction of Buildings and Related Structures," and applicable contractor and subcontractor QA programs in effect at the time of construction. The checklist items were separated into different major work categories such as Reinforcing Steel, Concrete Work, Embedded Metal, Containment Liner, and Quality Assurance in the same manner as these categories appeared in Specification 8831R. Documentation was randomly selected based upon PGandE documentation indexes and consisted of material certifications, test and inspection reports, drawings, material and procedure approvals, concrete placement cards, batch plant tapes, receiving reports, equipment calibration records, nonconformance reports (NCRs), corrective action reports (CAR), audit records, and general correspondence.

The evaluation of W-B was conducted using a prepared checklist consisting of attributes that were derived from requirements contained in the following documents: PGandE Specification 8752, "Installation of the Nuclear Steam Supply Systems for Units 1 and 2 -Diablo Canyon Site," May 3, 1972; Wismer & Becker QA/QC Manual, June 6, 1973; and applicable drawings. Records obtained from the perma-

nent plant file were reviewed, on a random basis, for objective evidence that requirements were met in a satisfactory manner. The type of records reviewed included ASME III Certificates of Authorization, Certified Material Test Report (CMTRs), Code Data Reports, Operation Process Sheet Travelers (installation and inspection documentation), drawings, welding procedures, welder qualification records, weld data sheets, welding electrode control records, nondestructive examination (NDE) procedures, personnel qualifications and reports, hydrostatic test procedures reports, audit reports, and nonconformance reports (NCRs).

b. Task B - Construction Verification Review

Procedures and checklists (as appropriate) were developed to:

- Verify that construction of selected components reflects essential design features.

- Verify that appropriate documentation was provided to record variations, and, where required, as-constructed conditions.

Items for physical verification of key elements were chosen from work of the contractors and specified on a checklist. The list of items and attributes verified was considered to be sufficiently representative to permit conclusions as to the adequacy of installation work. The specified inspections and verifications were conducted utilizing experienced personnel certified in accordance with ANSI N45.2.6 in the discipline being examined. Areas

and items examined and the results of the examination were identified and documented so as to be repeatable. The physical verification was intended to determine whether specified requirements have been met.

Checklist attributes for verification of the GFA physical installation were developed based on requirements of PGandE Specification 8831R, PGandE and contractor drawings, and applicable contractor and subcontractor QA programs. GFA "Concrete Lift Drawings", C-Series for containment, and I-Series for interior containment concrete, were very detailed and provided much of the criteria used in developing the physical verification checklist. Visual inspection of the accessible completed work was then performed to verify that work was done in accordance with the approved design drawings and specifications. Items examined included concrete surfaces, construction joint locations, weld size and location, linear erection, and embedment locations.

Checklists for verification of the W-B physical installation were prepared based on design drawings, specification requirements, reported as-built conditions, and other appropriate design data (i.e., flow diagrams) for conducting the physical verification of construction practices of the following systems:

- Reactor coolant piping
- Pressurizer surge line piping
- Bottom mounted instrumentation (BMI) tubing
- Reactor vessel leak detection line
- Pipe and tubing supports for the four items above

Inspections were performed utilizing prepared checklists consisting of attributes extracted from specifications, drawings, and quality assurance/quality control procedures.

In conjunction with the physical verification, supporting documentation (i.e., welder qualification, weld procedure approvals, NDE qualifications, and other inspection reports) were reviewed for compliance to specification and program requirements for the time of construction.

c. Task C - Processing of Findings

In the performance of Tasks A and B all Potential Findings were identified by issuance of an Open Item Report (OIR) in the EOI system see (3.6.2).

A Findings Review Committee was established that comprised several senior SWEC personnel and a TES staff member, all with broad experience in nuclear power plant engineering, quality assurance, and construction management. The Committee:

- Defined the criteria for determining the degree of impact that Potential Findings have on plant adequacy.

- Established a procedure to process Potential Findings which provided an opportunity for PGandE to comment on the definition and accuracy of Potential Findings.

- Reviewed each Potential Finding for definition and accuracy and assessed its impact on the adequacy of the plant. The committee recommended classification of Potential Findings to TES in accordance with the following:

Committee Determination	Classification	EOI Resolution
1. Finding accurate and had potential for significant impact on adequacy of Diablo Canyon Unit 1 (DCNPP-1)	QA Finding	ER/A
2. Finding accurate but did not have potential for significant impact on adequacy of DCNPP-1	QA Observation	ER/C
3. Finding not accurate	Invalid	PPR/CI

The Findings Review Committee evaluations were conducted in the same manner as would be used for a plant under construction today. That is, the Potential Finding was evaluated to determine the potential for significant impact on adequacy - both with respect to the "as is" condition and with respect to the consequences of restoration to the precise condition specified. If the adequacy in the "as is" condition was equivalent to the adequacy in the "as specified" condition, resolution was as a QA Observation. The major role of the experienced members of The Findings Review Committee was to judge the state of equivalence.

d. Task D: Reports

Semimonthly Reports and Interim Technical Reports were prepared.

In addition, the Error or Open Item (EOI) report system described in 3.6.2 of this report was adapted to the CQA effort in the following manner:

- Open Item Reports (OIR) were issued by SWEC to report Potential Findings. The file number was assigned in sequence from the range of numbers 9000-9999.

- Issuance of the OIR initiated PGandE action to verify the definition and accuracy of Potential Findings. PGandE reported their results to TES and SWEC by use of a PGandE Resolution Sheet.

- The Findings Review Committee reported their recommendation to TES, with a copy to PGandE, as follows:

  (1) A Potential Error Report as a Class A Error (ER/A) was used for recommended QA Findings.

  (2) A Potential Error Report as a Class C Error was used for recommended QA Observations.

  (3) A Potential Program Resolution Report as a Closed Item was used for recommended invalid Potential Findings.

- When the recommendation of the Findings Review Committee was considered by TES to be in compliance

with the CQA Program Plan:

(1) An Error Report as a Class A Error was issued for QA Findings.

(2) An Error Report as a Class C Error was issued for QA Observation.

(3) A Program Resolution Report as a Closed Item was issued for invalid Potential Findings.

- In reponse to a QA Finding (ER/A), PGandE developed and implemented corrective action. Following completion of the corrective action, PGandE notified TES and SWEC by issuance of a PGandE Completion Report; TES issued an Open Item Report, keeping the same File number; and SWEC verified the corrective action.

- When SWEC verified and accepted the corrective action, including review by the Findings Review Committee, the Findings Review Committee reported its recommendation to TES, with a copy to PGandE, by issuing a Potential Program Resolution Report as a Closed Item.

- The recommendations of the Findings Review Committee were evaluated and, when accepted by TES, reported by a Program Resolution Report as a Closed Item.

- An IDVP Completion Report was issued by TES following issuance of an Error Report as a Class C Error (QA Observation) and following issuance of a Program

Resolution Report as a Closed Item (invalid Potential Findings or resolved QA Findings).

4.2.4.3 Summary of GFA Evaluation (ITR-36)

a. GFA Quality Assurance Program

Based on the checklist, 1880 documents were reviewed against the appropriate attributes. Unless otherwise noted, the documents were legible and sufficiently detailed to verify that the work was performed as required. PGandE involvement in the QA program was evidenced by their approval of contractor and subcontractor QA programs, approvals of NCRs, audits of subcontractors and corrective action follow-up.

The review revealed the existence of deficiencies at the very start of concrete production when leveling mats were being placed and later with "fill" concrete for the "soldier beams" in the containment. It also identified two isolated instances where small amounts of aluminum powder were used in grout within the containment.

b. GFA Physical Installation

Based on the checklist attributes, 323 items were visually inspected. All GFA "C" and "I" Series concrete lift drawings used in the verification showed evidence of PGandE approval.

The review revealed two areas (i.e., the exterior of the containment and the inside surface of blockouts on interior walls), where the surface finish did not appear

to meet specification requirements.

c. EOI Files On GFA Work

Four EOI Files (EOIs 9008, 9015, 9016, and 9021) were opened for the Construction Quality Assurance evaluation of the work performed by Guy F. Atkinson on the Containment Building at DCNPP-1. All four files were opened as a result of SWEC Field Auditor activities at the site, and were transmitted to PGandE for comment on the definition and accuracy of the Potential Finding in accordance with the program plan. The Findings Review Committee considered the PGandE response to the Potential Finding and based on the committee conclusions and their acceptance by TES, all four files were resolved as QA Observations (ER/C). That is, they were determined to be non-conformances that did not require further evaluation because they had no apparent real or potential impact on quality. No physical modifications were required.

4.2.4.4 Summary of W-B Evaluation (ITR-38)

a. Quality Assurance Program

W-B was found to be in compliance with requirements for the majority of the 80 attributes that were evaluated. In accordance with specification requirements, the contractor's Quality Assurance Program was submitted to and approved by PGandE. In addition, the contractor was a holder of the ASME Certification of Authorization for installation of nuclear piping. The required Code Data Reports were properly signed and certified by the Authorized Nuclear Inspector (ANI). Travelers, specifications,

drawings, and procedures were approved by PGandE prior to work being performed; the travelers, which included inspection and test requirements, were completed as work was performed including the signoff at designated hold points by the contractor's inspector and the ANI. Further examples of activities which were found to be in compliance with the source documents and associated codes and standards are as follows:

- Installation operations (setting, shimming, alignment, etc) of NSSS major components
- Cleanliness and cleaning and flushing operations in accordance with procedures approved by PGandE
- Qualification of welding procedures and approval by PGandE and the ANI
- Selection of proper welding process (GTAW, SMAW)
- Control of welding electrodes
- Control of interpass temperatures
- Repair of reported weld defects in accordance with procedures approved by PGandE
- Approval of NDE procedures and NDE personnel qualifications by PGandE and the ANI
- Performance of required NDE
- Performance of audits

- Control of reported nonconformances, including the approval of dispositions by PGandE

A total of 3,528 documents were reviewed. As a result of the review, 16 EOI Files were opened to document Potential Findings which required resolution. Most of these items can be characterized as omissions or as an inspection activity which had to be evaluated to determine its impact on the physical installation.

b. W-B Physical Installation

W-B was found to be in compliance with program requirements for the vast majority of the attributes that were verified. The configuration, cleanliness, surface finish of welds, and overall workmanship were in compliance with drawings and specifications with some exceptions noted in the report. Of 2,298 items inspected, 9 EOI Files were opened. These items identified either a conflict between a drawing requirement and the installation or apparent field changes that may not have been properly documented.

c. EOI Files On W-B Work

Twenty-five EOI Files were opened for the Construction Quality Assurance evaluation of the work performed by W-B on NSSS piping at the DCNPP-1. All were opened as a result of the SWEC Field Auditor activities at the site, and were transmitted to PGandE for comment on the definition and accuracy of the Potential Finding in accordance with the program plan. The PGandE response was considered by the Findings Review Committee in their evaluation of

the Potential Finding. One of the files, EOI 9026, was considered to be a QA Finding and is described further in 4.2.4.4d.

Based upon the conclusions of the Findings Review Committee, and acceptance of their recommendations by TES, the remaining 24 files were resolved as follows:

- 5 of the files (EOI 9005, 9009, 9010, 9014, and 9028) were considered to be invalid, and Program Resolution Report as a Closed Item was issued.

- 19 of the files were considered to be QA Observations (ER/C).

That is, 19 of the files (9001-9004, 9006, 9007, 9011-9013, 9017-9020, 9022-9025, 9027, and 9029) were determined to be nonconformances that did not require further evaluation because they had no apparent real or potential impact on quality. No physical modifications were required.

d. QA Finding

For the 2,298 W-B items inspected, nine EOI Files were opened and one (EOI 9026) was resolved as a QA Finding (ER/A). That is, EOI 9026 was considered to be a nonconformance "that requires evaluation due to its size or potential impact on quality."

The Site Review Team reported to the FRC that documentation was not available to assure that liquid penetrant inspection of lug removal areas on the reactor coolant piping had been performed as required. The FRC reviewed

the PFR and concurred that the inspection was required and the Potential Finding was valid. EOI File 9026 was issued.

DCP reported that its review had not located the documentation and Pullman Power Company had been retained to perform the inspection (early 1983). The FRC reviewed the results of the Pullman Power Company inspection, including the NDE procedures used. The documentation was complete and showed that the lug removal areas were inspected, indications removed where required, and thickness measurements taken where grinding was performed. All lug removal areas were acceptable to Pullman Power Company procedures with the exception of one linear indication which was not allowed by Pullman's acceptance criteria. Information on that area was supplied by DCP. Qualified DCP personnel performed a liquid penetrant exam to PGandE's procedure utilizing the acceptance criteria from the Westinghouse procedure and the applicable code and accepted the indication.

The FRC determined that an independent LP exam should be performed by a SWEC Level III Examiner witnessed by a member of the FRC. The examination was performed and a determination was made that the examinations by both Pullman Power Company and DCP were valid, and the indication was considered acceptable per the Code and within the DCNPP inservice inspection requirements.

The FRC concurred with the corrective action taken by DCP and concluded with TES agreement, that, based on the action taken by DCP review of the facts by the FRC, and the independent examination performed for the FRC, the

Code and specification requirements were met and there were no safety concerns. This is the only reported item to be classified as a Finding. Since the review verified the performance of all other required inspections and this was the only exception, it is considered to be a unique occurrence. No physical modification is required.

4.2.4.5 Conclusion

For each of the PGandE contractors reviewed, G.F. Atkinson and Wismer & Becker, it was the conclusion of the IDVP that in the areas reviewed the work performed in constructing DCNPP-1 was satisfactory. The IDVP found that adequate controls and practices were used by PGandE and the two contractors to assure the quality of construction. Further, to the extent reviewed, the as-constructed physical installation met the intent of the requirements of design drawings and specifications, and the required inspections were performed and appropriately documented. The IDVP considered the number and significance of the Observations to be consistent with expectations for the extensive review performed for both hardware and documentation. The installation was considered to be acceptable and no additional verification was recommended.

The single QA Finding on W-B, identified by EOI 9026, was considered by the Findings Review Committee (FRC) to be a unique occurrence, since the review verifies the performance of all other required inspections. There were also a total of 23 QA Observations, 10 of which were categorized as programmatic. Four of the 23 applied to GFA with the remaining being applicable to W-B.

The Construction Quality Assurance evaluation by the IDVP used a sample of two construction contractors. The IDVP sought to identify the presence of generic deficiencies, using the same sampling and verification techniques used to review the design process. The IDVP found no indication that PGandE failed to adequately control the activities of the construction contractors.

	REV. 0		LATEST REV.			ACTION	PG&E			
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
910	820106	FID	0	820106	RLCA	OIR	RLCA	RCW		RACEWAY SUPPORTS.
COMMENT: THREE OF TWENTY SAMPLE RACEWAY SUPPORTS FOUND TO VARY FROM INSTALLATION CRITERIA(SAMPLES 04,15,& 20),PG&E ADDRESSING COMMUNICATION PROBLEM ASSOCIATED WITH SAMPLE 04.										
910	820106	FID	1	820406	RLCA	OIR	RLCA	RCW		RACEWAY SUPPORTS.
COMMENT: FOUR OF TWENTY RACEWAY SUPPORTS FOUND TO VARY FROM PG&E INSTALLATION CRITERIA; RLCA NOTES PG&E SET-UP PROGRAM TO COMMUNICATION PROBLEM IN SAMPLE 04.										
910	820106	FID	2	820430	RLCA	PPRR/OIP	TES	RCW		RACEWAY SUPPORTS.
COMMENT: PG&E HAS ESTABLISHED PROGRAM TO RESOLVE ELECTRICAL RACEWAY FIELD VARIANCES.										
910	820106	FID	3	820511	TES	PRR/OIP	PG&E	RCW		RACEWAY SUPPORTS.
COMMENT: ITR-1, 3.7.4 PG&E EXECUTE FIELD PROGRAM TO RESOLVE ELECTRICAL RACEWAY FIELD VARIANCES.										
910	820106	FID	4	820721	TES	OIR	RLCA	RCW		RACEWAY SUPPORTS.
COMMENT: ITR-1, 3.7.4 PG&E EXECUTE FIELD PROGRAM. TES AND RLCA WILL RECONSIDER AND RESOLVE FILE BASED ON PG&E REEVALUATION OF SUPPORTS BEING DONE IN ITP AS PRESENTED IN JULY 14-16, 1982 PRESENTATION.										
910	820106	FID	5	820722	RLCA	PPRR/CI	TES	RCW		RACEWAY SUPPORTS.
COMMENT: ITR-1, 3.7.4 PG&E EXECUTE FIELD PROGRAM. REEVALUATION OF SUPPORTS IN PROGRESS; COMBINE THIS EOI WITH 983 AS A CLASS 'A' ERROR.										
910	820106	FID	6	820723	TES	PRR/CI	TES	RCW		RACEWAY SUPPORTS.
COMMENT: DELETE FROM ITR-1, 3.7.4 REEVALUATION OF SUPPORTS IN PROGRESS; COMBINE THIS EOI WITH 983 AS A CLASS 'A' ERROR.										
910	820106	FID	7	820723	TES	CR	NONE	RCW	NO	RACEWAY SUPPORTS.
COMMENT: FOUR OF TWENTY RACEWAY SUPPORTS FOUND TO VARY FROM PG&E INSTALLATION CRITERIA. BASED ON PG&E PRESENTATION (JULY 14-16, 1982) ON THEIR INTERNAL TECHNICAL PROGRAM WHICH INCLUDES A COMPLETE EVALUATION OF ALL RACEWAY SUPPORTS, THIS FILE IS COMBINED WITH EOI 983 AS AN ERROR CLASS A.										
920	820106	SID	0	820106	RLCA	OIR	RLCA	RDC		AUX BLDG FLOOR RESP SPECTRA DIFF.
COMMENT: SOME OF THE AUXILIARY BUILDING FLOOR RESPONSE SPECTRA IN THE N-S DIRECTION CONTAINED IN THE HOSGRI REPORT DIFFER FROM THOSE IN THE OCTOBER 1979 BLUME REPORT.										
920	820106	SID	1	820322	RLCA	PPRR/OIP	TES	RDC		AUX. BLDG FLOOR RESP SPECTRA DIFF
COMMENT: RLCA HAS RECOMMENDED THAT PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										
920	820106	SID	2	820417	TES	PRR/OIP	PG&E	RDC		AUX BLDG FLOOR RESP SPECTRA DIFF
COMMENT: ITR-1, 3.9.4 PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										
920	820106	SID	3	820719	TES	OIR	RLCA	RDC		AUX BLDG FLOOR RESP SPECTRA DIFF
COMMENT: ITR-1, 3.9.4 PG&E ASSEMBLE SPECTRA. BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUXILIARY BUILDING IS BEING COMPLETELY REANALYZED, TES AND RLCA TO CONSIDER AND RESOLVE THIS FILE.										
920	820106	SID	4	820721	RLCA	PPRR/CI	TES	RDC		AUX BLDG FLOOR RESP SPECTRA DIFF
COMMENT: ITR-1, 3.9.4 PG&E ASSEMBLE SPECTRA. THIS FILE TO BE COMBINED WITH 1097 (ER/AB)										
920	820106	SID	5	820722	TES	PRR/CI	TES	RDC		AUX BLDG FLOOR RESP SPECTRA DIFF
COMMENT: DELETE FROM ITR-1, SECTION 3.9.4. BASED ON PG&E PRESENTATION ON JULY 14 TO 16, 1982, THE AUX. BLDG. IS BEING REANALYZED IN THE PG&E ITP(INTERNAL TECHNICAL PROGRAM). THIS FILE IS COMBINED INTO EOI 1097 (ER/AB).										
920	820106	SID	6	820722	TES	CR	NONE	RDC	NO	AUX BLDG FLOOR RESP SPECTRA DIFF
COMMENT: FLOOR RESPONSE SPECTRA IN THE N-S DIRECTION CONTAINED IN THE HOSGRI REPORT DIFFER FROM THOSE IN THE OCTOBER 1979 BLUME REPORT. BASED ON PG&E ITP, THE AUX. BLDG. IS BEING REANALYZED. THIS FILE IS COMBINED INTO 1097 (ER/AB)										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
930	820106	SID	0	820106	RLCA	OIR	RLCA	RCW		RACEWAY CRITERIA
COMMENT: RLCA INDICATES POSSIBLE UNCONSERVATIVE SEISMIC LOAD EVALUATION DUE TO 5 CONCERNS; SUPPORT CALCULATIONS CANNOT PROCEED UNTIL ITEMS ADDRESSED.										
930	820106	SID	1	820430	RLCA	PPRR/OIP	TES	RCW		RACEWAY CRITERIA
COMMENT: PG&E TESTING PROGRAM TO ADDDRESS POSSIBLE UNCONSERVATIVE SEISMIC LOADS.										
930	820106	SID	2	820511	TES	PRR/OIP	PG&E	RCW		RACEWAY CRITERIA
COMMENT: ITR-1, 3.7.4 PG&E EXECUTE TEST PROGRAM. PG&E TESTING PROGRAM TO ADDRESS POSSIBLE UNCONSERVATIVE SEISMIC LOADS.										
930	820106	SID	3	820721	TES	OIR	RLCA	RCW		RACEWAY CRITERIA
COMMENT: ITR-1, 3.7.4 PG&E EXECUTE TEST PROGRAM. TES AND RLCA WILL RECONSIDER AND RESOLVE FILE BASED ON PG&E REEVALUATION OF SUPPORTS BEING DONE IN ITP AS DESCRIBE IN 820414-16 PRESENTATION.										
930	820106	SID	4	820722	RLCA	PPRR/CI	TES	RCW		RACEWAY CRITERIA
COMMENT: REEVALUATION OF SUPPORTS IS IN PROGRESS. THIS EOI TO BE COMBINED WITH EOI 983 AS A CLASS 'A' ERROR.										
930	820106	SID	5	820723	TES	PRR/CI	TES	RCW		RACEWAY CRITERIA
COMMENT: DELETE FROM ITR-1. 3.2.4 ; REEVALUTION OF SUPPORTS IN PROGRESS. THIS EOI TO BE COMBINED W/ EOI 983 AS A CLASS 'A' ERROR.										
930	820106	SID	6	820723	TES	CR	NONE	RCW	NO	RACEWAY CRITERIA
COMMENT: RLCA PRELIMINARY REVIEW OF PG&E RACEWAY CRITERIA INDICATES THE POSSIBILITY OF UNCONSERVATIVE SEISMIC LOAD EVALUATION DUE TO FIVE CONCERNS, BASED ON PG&E PRESENTATION (JULY 14-16, 1982) ON THEIR INTERNAL TECHNICAL PROGRAM WHICH INCLUDES A COMPLETE REVALUATION OF ALL RACEWAY SUPPORTS, THIS EOI IS COMBINED WITH EOI 983 AS AN ERROR CLASS A. (ALSO ITR-7).										
931	820106	FID	0	820106	RLCA	OIR	RLCA	RDF		VALVE 9001A ORIEN. LINE 264, AUX. BUILDING.
COMMENT: PG&E ISO SHOWS VALVE IN HORIZONTAL POSITION; RLCA FIELD INFO SHOWS IN VERTICAL POSITION.										
931	820106	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		VALVE 9001A ORIEN. LINE 264, AUX. BUILDING.
COMMENT: PG&E PIPING ANALYSIS SHOWS VALVE IN VERTICAL POSITION; PG&E TO REVISE ISO.										
931	820106	FID	2	820417	TES	PRR/DEV	PG&E	RDF		VALVE 9001A ORIEN. LINE 264, AUX. BUILDING.
COMMENT: PG&E PIPING ISO 446540, REV.9 ; PG&E PIPING ANALYSIS 8-33. DATE OF RUN: 3/18/80. ISO DISAGREES WITH FIELD AND PG&E ANALYSIS. PG&E TO REVISE ISO.										
931	820106	FID	3	820524	TES	CR	NONE	RDF	NO	VALVE 9001A ORIEN. LINE 264, AUX. BUILDING.
COMMENT: VALVE 9001A ON CONTAINMENT SPRAY ISO 446540 R9 IS SHOWN IN HORIZONTAL POSITION. VALVE IS VERTICAL IN FIELD. DESIGN ANALYSIS 8-33 (820318) SHOWS VALVE VERTICAL. DEVIATION. NO PHYSICAL MODS PER PG&E COMPLETION SHEET 820521.										
932	820106	FID	0	820106	RLCA	OIR	RLCA	RDF		CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: ISO SHOWS SUPPORT AS RIGID VERTICAL; RLCA FIELD INFO. INDICATES DEAD LOAD SUPPORT ONLY; PG&E CLAIMS RIGID VERT. NOT NEEDED.										
932	820106	FID	1	820319	RLCA	PER/A	TES	RDF		CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: USING DEAD LOAD SUPPORT ONLY, STRESSES EXCEED ALLOWABLE; WITH A RIGID VERTICAL SUPPORT, STRESSES WELL BELOW ALLOWABLE; RLCA RECOMMENDS PHYS. MODS. BE MADE.										
932	820106	FID	2	820417	TES	ER/A	PG&E	RDF		CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: PG&E PIPING ISO 446540, REV-9 ; PG&E PIPING ANALYSIS 8-33. (3/18/80) RLCA PIPING ANALYSIS RLCA 100. COMPUTER RUN NOS: K15IRLZ 3/10/82, K15YD7F 3/14/82. LINE OVERSTRESSED WITH SUPPORT INACTIVE. LINE BELOW ALLOWABLE WITH SUPPORT ACTIVE. PG&E SHOWS A RIGID VERTICAL SUPPORT, RLCA FIELD INFORMATION INDICATES A DEAD LOAD SUPPORT ONLY.										
932	820106	FID	3	820417	TES	OIR	RLCA	RDF	YES	CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: PG&E COMPLETED TASK ON CLASS 'A' ERROR; RLCA TO REVERIFY.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
932	820106	FID	4	820430	RLCA	PPRR/CI	TES	RDF	YES	CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: RLCA HAS FIELD VERIFIED MODS. TO SUPPORT.										
932	820106	FID	5	820510	TES	PRR/CI	TES	RDF	YES	CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: REVIEWED RLCA FILE P105-4-591.5-067. SUPPORT 58S/23R HAS BEEN MODIFIED BY PG&E AND INSPECTED BY RLCA.										
932	820106	FID	6	820510	TES	CR	NONE	RDF	YES	CONTAINMENT SPRAY SUPT. 58S-23R DIRECTION
COMMENT: PG&E RESOL. SHT. 820603, REPORTS PHY. MODS. MADE. SUPT. 58S-23R ON ISO 446540 R9 & ANALYSIS 8-33 SHOWS AS A Y-Z RIGID,FIELD INSPECTION SHOWED SUPT. AS A DEADWEIGHT AND Z. RLCA 100 ANALYSIS FAILS WITH DEADWEIGHT SUPT. PASSES W/ Y-RIGID. ERROR CLASS A.SUPT. MODIFIED & FIELD VERIFIED.										
933	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		RHR LINE 110 DIMENSION. AUXILIARY BUILDING.
COMMENT: ISO 446541 REV.7 SHOWS 'AS-BUILT' LENGTH OF LINE 110 BETWEEN SUPPORTS 55S/90A AND 54S/26R TO DISAGREE WITH RLCA FIELD INSPECTION.										
933	820120	FID	1	820426	RLCA	PER/C	TES	RDF		RHR LINE 110 DIMENSION. AUXILIARY BUILDING.
COMMENT: DESIGN ANALISIS 8-3 SHOWS LENGTH OF LINE TO BE 9.07 FT. RLCA FIELD INSPECTION SHOWED DIMENSION AS 12 FT. WHICH EXCEEDS 79-14 TOLERANCES BUT SHOWS NO OVERSTRESS.										
933	820120	FID	2	820510	TES	ER/C	PG&E	RDF		RHR LINE 110 DIMENSION. AUXILIARY BUILDING.
COMMENT: PG&E PIPING ISO 446541, REV.7, PG&E PIPING ANALYSIS 8-3. DATE OF RUN: 3/18/80. RLCA PIPING ANALYSIS RLCA 103. COMPUTER RUN NOS. K152F0Z 4/8/82, K152P0Z 4/9/82, K152R8J 4/23/82. 'AS-BUILT' LENGTH EXCEEDS 79-14 TOLERANCES. FIELD DIMENSION NOT USED IN ANALYSIS. ALL PIPE STRESS LESS THAN ALLOWABLE.										
933	820120	FID	3	820524	TES	CR	NONE	RDF	NO	RHR LINE 110 DIMENSION. AUXILIARY BUILDING.
COMMENT: LINE 110 FROM SUPPORT 55S/90A TO 54S/26R ON RHR ISO 446541 R7 IS 9 3/4 IN. PER FIELD INSPECTION, 12 FT. PER DESIGN ANALYSIS 8-3, 9.07 FT. RLCA 103 ANALYSIS SHOWS STRESS LESS THAN ALLOWABLE. DIMENSION DIFFERENCE EXCEEDS 79-14 TOLERANCES ERROR CLASS C. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820518.										
934	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		RHR SUPT. 72-11R DIRE. LINE 110 AUX. BUILDING.
COMMENT: ISO 446541 REV.7 DOES NOT GIVE DIRECTION OF RESTRAINT FOR SUPPORT 72/11R ; FIELD INSPECTION SHOWED SUPPORT TO BE ACTIVE IN VERTICAL DIRECTION.										
934	820120	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		RHR SUPT. 72-11R DIRE. LINE 110 AUX. BUILDING.
COMMENT: PG&E PIPING ANALYSIS SHOWS SUPPORT TO BE ACTIVE IN VERTICAL DIRECTION; PG&E TO REVISE ISO.										
934	820120	FID	2	820417	TES	PRR/DEV	PG&E	RDF		RHR SUPT. 72-11R DIRE. LINE 110 AUX. BUILDING.
COMMENT: PG&E PIPING ISO 446541 REV.7, PG&E PIPING ANALYSIS 8-3 DATE OF RUN 3/18/80. ISO DISAGREES WITH FIELD AND PG&E ANALYSIS.										
934	820120	FID	3	820524	TES	CR	NONE	RDF	NO	RHR SUPT. 72-11R DIRE. LINE 110 AUX. BUILDING.
COMMENT: DIRECTION OF RESTRAINT FOR SUPPORT 72/11R ON RHR ISO 446541 REV.7 IS NOT GIVEN. RLCA FIELD INSPECTION SHOWED SUPPORT ACTIVE IN VERTICAL DIRECTION. DESIGN ANALYSIS 8-33 (820318) SHOWS SUPPORT ALSO VERTICAL. DEVIATION. NO PHYSICAL MODS. PER PG&E COMPLETION SHEET 820521.										
935	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		RHR LINE 931 CONNECTION TO LINE 1971.AUX. BLDG.
COMMENT: ISO 446542 SHOWS 3 INCH LINE NUMBER 931 TO TEE OF LINE 1971 BETWEEN VALVE 8804A AND HEAT EXCHANGER 1-1 ; RLCA FIELD INSPECTION SHOWED NO SUCH LINE.										
935	820120	FID	1	820309	RLCA	PPRR/CI	TES	RDF		RHR LINE 931 CONNECTION TO LINE 1971.AUX. BLDG.
COMMENT: LINE 931 DOES NOT TEE OFF LINE 1971, BUT DOES TEE OFF TWO OTHER LINES; RLCA MISREAD ISO.										
935	820120	FID	2	820409	TES	CR	NONE	RDF	NO	RHR LINE 931 CONNECTION TO LINE 1971.AUX. BLDG.
COMMENT: RLCA MISREAD RHR ISO. 446542 R.10 AS HAVING LINE 931 TEE OFF LINE 1971 BETWEEN VALVE 8804A AND THE RHR HEAT EXCHANGER 1-1. RLCA FIELD INSPECTION SHOWED NO 3 INCH LINE ATTACHED TO LINE 1971.										
936	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		RHR LINE 1971 DIMENSION. AUXILIARY BUILDING.
COMMENT: ISO 446542 REV.10 SHOWS LENGTH OF VERTICAL RUN BETWEEN VALVE 8804A AND HEAT EXCHANGER 1-1 TO DISAGREE WITH RLCA FIELD INSPECTION. EXCEEDS 79-14 CRITERIA.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
936	920120	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		RHR LINE 1971 DIMENSION, AUXILIARY BUILDING.
COMMENT: PIPING ANALYSIS 3-1 SHOWS VERTICAL RUN LENGTH TO DIFFER FROM FIELD INSPECTION. DIFFERENCE IS WITHIN 79-14 TOLERANCE. PG&E TO REVISE ISO.										
936	820120	FID	2	820417	TES	PRR/DEV	PG&E	RDF		RHR LINE 1971 DIMENSION, AUXILIARY BUILDING.
COMMENT: PG&E PIPING ISO 446542, REV.10. PG&E PIPING ANALYSIS 8-31. DATED 5/28/80. FIELD AND ANALYSIS DISTANCE WITHIN 79-14 TOLERANCE. ISO OUTSIDE TOLERANCE.										
936	820120	FID	3	820510	TES	PRR/DEV	PG&E	RDF		RHR LINE 1971 DIMENSION, AUXILIARY BUILDING.
COMMENT: TO CORRECT TES FORMAT ERROR ON REV.2 REPORT. FIELD AND ANALYSIS DISTANCE WITHIN 79-14 TOLERANCE. ISO OUTSIDE TOLERANCE. PG&E TO REVISE ISO. 446542.										
936	820120	FID	4	820524	TES	CR	NONE	RDF	NO	RHR LINE 1971 DIMENSION, AUXILIARY BUILDING.
COMMENT: THE LENGTH OF VERTICAL RUN OF LINE 1971 BETWEEN VALVE 8804A AND RHR HEAT EXCHANGER 1-1 ON RHR ISO, 446542 REV.10 IS 2'-0". RLCA FIELD INSPECTION SHOWED THIS DIMENSION TO BE 2'-10". DESIGN ANALYSIS 8-31 (800528) SHOWS DIMENSION AS 2'-8" (WITHIN 79-14 TOLERANCES). DEVIATION. NO PHYSICAL MODS. PER PG&E COMPLETION SHEET 820521.										
937	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		CHEM. VOL. CONTROL LINE 44 FLANGE. AUX. BLDG.
COMMENT: ISO 446544 REV.11 DOES NOT SHOW SECOND FLANGE ON VERTICAL RUN ON LINE 44 FROM STABILIZER/SEPARATOR. FIELD INSPECTION SHOWED SECOND FLANGE TO BE 13 INCHES ABOVE FIRST FLANGE.										
937	820120	FID	1	820519	RLCA	PER/C	TES	RDF		CHEM. VOL. CONTROL LINE 44 FLANGE. AUX. BLDG.
COMMENT: PIPING ANALYSIS RLCA 102 SHOWS ALL STRESSES BELOW ALLOWABLE.										
937	820120	FID	2	820607	TES	ER/C	PG&E	RDF		CHEM. VOL. CONTROL LINE 44 FLANGE. AUX. BLDG.
COMMENT: PG&E PIPING ISO 446544, REV.11. PG&E PIPING ANALYSIS 8-25. RLCA 102 COMPUTER RUN NOS. K15TN87 5/12/82, K15TLIR 5/12/82. ADDED FLANGE IN RLCA PIPING ANALYSIS DOES NOT PRODUCE AN OVERSTRESS.										
937	820120	FID	3	820707	TES	CR	NONE	RDF	NO	CHEM. VOL. CONTROL LINE 44 FLANGE. AUX. BLDG.
COMMENT: ISO 446544 R11 DOES NOT SHOW A SECOND SET OF FLANGES ON THE VERTICAL RUN OF LINE 44 FROM THE STABILIZER/SEPARATOR. DESIGN ANALYSIS 8-25 ALSO DOES NOT SHOW THIS FLANGE. RLCA 102 ANALYSIS (RUN SEQ # K15TN87 & K15TLIR) INCLUDED ADDED FLANGES AND SHOWS NO OVERSTRESS.ERROR CLASS C. NO PHYS. MODS. PER PG&E RESOL. SHEET 820621.										
938	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: ISO 446544 REV.11 SHOWS VALVE 8805B IN VERTICAL POSITION; FIELD INSPECTION SHOWED VALVE IN HORIZONTAL POSITION.										
938	820120	FID	1	820519	RLCA	OIR	RLCA	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: PG&E PIPING ANALYSIS 8-24 INCORPORATES VERTICAL MOUNTING OF VALVE. RLCA PIPING ANALYSIS RLCA 102 SHOWED ALL STRESSES UNDER ALLOWABLE; PG&E TO ASSESS SIGNIFICANCE OF HORIZONTAL VALVE MOUNTING.										
938	820120	FID	2	820520	RLCA	PPRR/OIP	TES	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: ANCHOR VALVE DRAWING DC 663219-458-2 INDICATES VALVE MUST BE MOUNTED IN VERTICAL DIRECTION. RLCA RECOMMENDS PG&E ASSESS SIGNIF. OF HORIZ. VALVE MOUNTING.										
938	820120	FID	3	820619	TES	PRR/OIP	PG&E	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: ITR-1, 3.2.4, PG&E ASSESS ACCEPTANCE OF OUT-OF POSITION VALVES. PG&E WILL ASSESS SIGNIFICANCE OF HORIZONTAL MOUNTING IN VIEW OF POSITION REQUIREMENTS GIVEN IN DRAWING DC663219-458-2.										
938	820120	FID	4	821027	TES	PRR/OIP	PG&E	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: REV.4 OF THIS FILE IS ISSUED TO INDICATE THAT FILE 1105 HAS BEEN COMBINED WITH FILE 938. THE CONCERN OF FILE 1105 WILL BE REVIEWED UNDER THIS FILE.										
938	820120	FID	5	821109	TES	OIR	RLCA	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: RLCA TO REVIEW RESOLUTION SHEET. 1) VALVE 8805B WILL BE ROTATED TO VERTICAL POSITION. 2) VALVES 8724A,8726A, 8728A REQUIRE NO PIPING MODS DUE TO W LTR. PGE-4735 (821026) WHICH ALLOW VALVES TO BE MOUNTED HORIZONTALLY. BASED ON ITEM 1, TES RECOMMENDS THIS FILE BE CONSIDERED AN ERROR CLASS A.										
938	820120	FID	6	821110	RLCA	PER/A	TES	RDF		VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.
COMMENT: VALVE 8805B WILL BE ROTATED SO THAT THE STEM ORIENTATION IS IN THE VERTICAL POSITION (ERROR CLASS A). WESTINGHOUSE LETTER PG&E-4735 (821026) PERMITS VALVES 8724A, 8726A AND 8728A TO BE INSTALLED IN THE HORIZONTAL DIRECTION (CLOSED ITEM).										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
938	820120	FID	7	821123	TES	ER/A	PG&E RDF		YES	VALVE 8805B ORIENT. LINE 1988, AUX. BUILDING.

COMMENT: VALVE 8805B WILL BE ROTATED TO VERTICAL POSITION REQUIRED BY PG&E DRAWING DC663219-458-2(ERROR CLASS A). WESTINGHOUSE LETTER PG&E-4735 (821026) PERMITS VALVES 8726A, 8724A AND 8728A TO BE INSTALLED IN HORIZONTAL DIRECTION (CLOSED ITEM). ALSO IN ITR 12.

938	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		11	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		12	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		13	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

938	0		14	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

939	820120	FID	0	820120	RLCA	OIR	RLCA RDF			SUPT. 73-72R DIRECTION. LINE 1988, AUX. BUILDING.

COMMENT: ISO 446544 REV.11 SHOWS SUPPORT 73/72R TO BE ACTIVE IN N-S DIRECTION ONLY; FIELD INSPECTION SHOWS SUPPORT TO BE ACTIVE IN BOTH N-S & E-W DIRECTIONS.

939	820120	FID	1	820519	RLCA	PER/C	TES RDF			SUPT. 73-72R DIRECTION. LINE 1988, AUX. BUILDING.

COMMENT: RLCA 102 ANALYSIS SHOWED ALL STRESSES LESS THAN ALLOWABLE. PG&E ANALYSIS 8-25 SHOWS SUPPORT ACTIVE IN N-S DIRECTION ONLY

939	820120	FID	2	820621	TES	ER/C	PG&E RDF			SUPT. 73-72R DIRECTION. LINE 1988, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4 ; PG&E LETTER DCVP-RLCA-74 DATED APRIL 23, 1982 (RLCA FILE P105-4-939-006).PG&E PIPING ANALYSIS 8-25 (RLCA FILE P105-4-432).RLCA PIPING ANALYSIS RLCA 102. SUPPORT ACTIVE IN THE N-S & E-W DIRECTION. ALL PIPE STRESSES LESS THAN ALLOWABLES.

939	820120	FID	3	820708	TES	CR	NONE RDF		NO	SUPT. 73-72R DIRECTION. LINE 1988, AUX. BUILDING.

COMMENT: SUPT. 73/72R ON CVC ISO 446544 R11 AND DESIGN ANALYSIS 8-25 IS SHOWN AS X-DIR SUPPORT. FIELD INSPECTION INDICATED SUPT. IN X-Z DIRECTION. RLCA 102 ANALYSIS SHOWS STRESSES LESS THAN ALLOWABLE. PG&E LETTER DCVP-RLCA-74 (820423 AGREES WITH FIELD INSPECTION. ERROR CLASS C. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820701.

940	820120	FID	0	820120	RLCA	OIR	RLCA RDF			LINE 103 DIMENSION. TURBINE BUILDING.

COMMENT: ISO 449316 REV.3 SHOWS "AS-BUILT" LENGTH OF LINE 103 SOUTH OF SUPPORTS 18/2R & 18/12SL AS 15 FT,6 INCHES. RLCA FIELD INSPECTION SHOWED DIMENSION AS 6 FT.

940	820120	FID	1	820510	RLCA	PER/C	TES RDF			LINE 103 DIMENSION. TURBINE BUILDING.

COMMENT: THE DESIGN ANALYSES 4-2 & 4-3 DO NOT SHOW CORRECT DIMENSION. PIPE STRESSES IN RLCA 102 ANALYSIS DO NOT EXCEED ALLOWABLE.

940	820120	FID	2	820619	TES	ER/C	PG&E RDF			LINE 103 DIMENSION. TURBINE BUILDING.

COMMENT: ITR-1, 3.2.4 ; PG&E LTR DCVP-RLCA-80 (5/2/82) (RLCA FILE P105-4-940-003).PIPING ISO 449316, REV.03 (RLCA FILE - P105-4-454).PG&E PIPING ANALYSIS 4-2 (RLCA FILE P105-4-432).& 4-3(RLCA FILE P105-4-432).RLCA PIPING ANALYSIS RLCA 104 COMPUTER SEQ. NO K15RF7J (RLCA FILE P105-4-521-045).ALL STRESSES LESS THAN ALLOWABLE. DIM DIFF. EXCEED 79-14 TOLERANCE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
940	820120	FID	3	820708	TES	CR	NONE RDF		NO	LINE 103 DIMENSION, TURBINE BUILDING.
COMMENT: LENGTH OF LINE 103 SOUTH OF SUPPORTS 18/2R AND 18/12SL ON CCW ISO 449316 R3 IS SHOWN AS 15 FT. 6 IN. RLCA FIELD INSPECTION SHOWED 6 FT. THE DIFFERNCE BETWEEN THE PG&E DESIGN ANALYSIS AND FIELD EXCEEDS 79-14 TOLERANCE. RLCA 104 ANALYSIS SHOWS NO OVERSTRESS. ERROR CLASS C. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820701.										
941	820120	FID	0	820120	RLCA	OIR	RLCA RDF			SUPT. 18-4R DIRECTION. LINE 104,TURBINE BUILDING.
COMMENT: ISO 449316 REV.3 DOES NOT GIVE DIRECTION OF RESTRAINT FOR SUPPORT 18/4R ; FIELD INSPECTION SHOWED SUPPORT ACTIVE IN VERTICAL DIRECTION.										
941	820120	FID	1	820309	RLCA	PPRR/DEV	TES RDF			SUPT. 18-4R DIRECTION. LINE 104,TURBINE BUILDING.
COMMENT: PG&E PIPING ANALYSIS 4-3 (800130) SHOWS SUPPORT 18/4R TO BE ACTIVE IN VERTICAL DIRECTION; PG&E TO REVISE ISO.										
941	820120	FID	2	820417	TES	PRR/DEV	PG&E RDF			SUPT. 18-4R DIRECTION. LINE 104,TURBINE BUILDING.
COMMENT: PG&E PIPING ISO 449316, REV.3 ; PG&E PIPING ANALYSIS 4-3, DATE OF RUN 1/30/80. ANALYSIS AGREES WITH FIELD CONFIGURATION. PG&E TO REVISE ISO.										
941	820120	FID	3	820524	TES	CR	NONE RDF		NO	SUPT. 18-4R DIRECTION. LINE 104,TURBINE BUILDING.
COMMENT: THE DIRECTION OF RESTRAINT FOR SUPPORT 18/4R IS NOT GIVEN ON COMPONENT COOLING WATER ISO 449316 R3. RLCA FIELD INSPECTION SHOWED SUPPORT ACTIVE IN VERTICAL DIRECTION. DESIGN ANALYSIS 4-3 (800130) SHOWS SUPPORT ACTIVE IN VERTICAL DIRECTION. DEVIATION. NO PHYSICAL MODS PER PG&E COMPLETION REPORT 820521.										
942	820120	FID	0	820120	RLCA	OIR	RLCA RDF			SUPT. 18-7R LOCATION. LINE 2277, TURBINE BLDG.
COMMENT: ISO 449316 REV.3 DOES NOT SHOW SUPPORT 18/7R; FIELD INSPECTION SHOWS SUPPORT TO BE LOCATED BETWEEN VALVE FCV355 & FE46 ON LINE 2277.										
942	820120	FID	1	820430	RLCA	PPRR/DEV	TES RDF			SUPT. 18-7R LOCATION. LINE 2277, TURBINE BLDG.
COMMENT: PG&E DESIGN ANALYSIS 4-3(800130)SHOWS SUPPORT AT NODE 12 (WITHIN 79-14 TOLERANCES).										
942	820120	FID	2	820510	TES	PRR/DEV	PG&E RDF			SUPT. 18-7R LOCATION. LINE 2277, TURBINE BLDG.
COMMENT: PG&E PIPING ISO 449316, REV.3 ; PG&E PIPING ANALYSIS 4-3, DATE OF RUN 1/30/80. FIELD AGREES WITH PG&E ANALYSIS WITHIN 79-14 TOLERANCES. IDVP COMPLETION REPORT CAN BE ISSUED IF PG&E INFORMS TES THAT THERE WILL BE NO PHYSICAL MODS.										
942	820120	FID	3	820524	TES	CR	NONE RDF		NO	SUPT. 18-7R LOCATION. LINE 2277, TURBINE BLDG.
COMMENT: SUPPORT 18/7R IS NOT SHOWN ON COMPONENT COOLING WATER ISO 449316 REV.3. RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE LOCATED BETWEEN VALVE FCV355 AND FE46 ON LINE 2277. DESIGN ANALYSIS 4-3 (800130) LOCATED THIS SUPPORT WITHIN 79-14 TOLERANCES. DEVIATION NO PHYSICAL MODS. PER PG&E COMPLETION SHEET 820521.										
943	820120	FID	0	820120	RLCA	OIR	RLCA RDF			SUPT. 5006/V LOCATION. LINE 102, TURBINE BLDG.
COMMENT: ISO 449316 REV.3 DOES NOT SHOW SUPPORT 5006/V; FIELD INSPECTION SHOWED SUPPORT TO BE LOCATED 18 INCHES NORTH OF CENTER LINE OF VALVE FCV 431.										
943	820120	FID	1	820430	RLCA	PPRR/DEV	TES RDF			SUPT. 5006/V LOCATION. LINE 102, TURBINE BLDG.
COMMENT: DESIGN ANALYSIS 4-3(800130) SHOWS SPRING HANGER 5006/V IN CORRECT LOCATION.										
943	820120	FID	2	820510	TES	PRR/DEV	PG&E RDF			SUPT. 5006/V LOCATION. LINE 102, TURBINE BLDG.
COMMENT: PG&E PIPING ISO 449316, REV.3 ; PG&E PIPING ANALYSIS 4-3, DATE OF RUN 1/30/80. FIELD AGREES WITH PG&E ANALYSIS. IDVP COMPLETION REPORT CAN BE ISSUED IF PG&E INFORMS TES THAT THERE WILL BE NO PHYSICAL MODS.										
943	820120	FID	3	820524	TES	CR	NONE RDF		NO	SUPT. 5006/V LOCATION. LINE 102, TURBINE BLDG.
COMMENT: SUPPORT 5006/V IS NOT SHOWN ON COMPONENT COOLING WATER ISO 449316 R3. RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE LOCATED 18 IN. NORTH OF THE CENTER LINE OF VALVE FCV 431. DESIGN ANALYSIS 4-3 (800130) SHOWS THIS SPRING HANGER IN THE CORRECT LOCATION. DEVIATION. NO PHY. MODS. PER PG&E COMPLETION REPORT 820521.										
944	820120	FID	0	820120	RLCA	OIR	RLCA RDF			SUPT. 5003/V LOCATION.LINE 101, TURBINE BLDG.
COMMENT: ISO 449316 REV.3 DOES NOT ADEQUATELY LOCATE S PPORT 5003/V; FIELD INSPECTION SHOWS IT TO BE 18 INCHES NORTH OF CENTER LINE OF VALVE FCV 430.										
944	820120	FID	1	820309	RLCA	PPRR/DEV	TES RDF			SUPT. 5003/V LOCATION.LINE 101, TURBINE BLDG.
COMMENT: PIPING ANALYSIS 4-3(800130) LOCATES SUPPORT AT CENTER LINE OF VALVE; PG&E TO REVISE ISO; RLCA WILL NOT REVIEW CHANGE.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
944	820120	FID	2	820417	TES	PRR/DEV	PG&E	RDF		SUPT. 5003/V LOCATION.LINE 101, TURBINE BLDG.
COMMENT: PG&E PIPING ISO 449316, REV.3 ; PG&E PIPING ANALYSIS 4-3, DATE OF RUN 1/30/80.FIELD AGREES WITH PG&E ANALYSIS WITHIN 79-14 TOLERANCES. PG&E TO REVISE ISO.										
944	820120	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 5003/V LOCATION.LINE 101, TURBINE BLDG.
COMMENT: SUPPORT 5003/V ON COMPONENT COOLING WATER ISO 449316 R3 IS NOT ADEQUATELY LOCATED. RLCA FIELD INSPECTION SHOWED SUPPORT TO BE LOCATED 18 IN. NORTH OF THE CENTER LINE OF VALVE FCV430. DESIGN ANALYSIS 4-3 (800130) LOCATED SUPPORT AT THE CENTER LINE OF VALVE FCV 430.WITHIN 79-14 TOLERANCE. DEVIATION. NO PHY. MODS. PER PG&E RESOL. SHEET 820521.										
945	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		SUPT. 55S-20R DIRE.& ID.NO.LINE 104,AUX. BLDG.
COMMENT: ISO 449314 REV.3 SHOWS SUPPORT ON LINE 104 AT J COLUMN BUT DOES NOT IDENTIFY; FIELD INSPECTION IDENTIFIES SUPPORT AS 55S/20R										
945	820120	FID	1	820430	RLCA	PPRR/DEV	TES	RDF		SUPT. 55S-20R DIRE.& ID.NO.LINE 104,AUX. BLDG.
COMMENT: DESIGN ANALYSIS 4-3(800130) SHOWS SUPPORT 55S/20R AT J COLUMN.										
945	820120	FID	2	820510	TES	PRR/DEV	PG&E	RDF		SUPT. 55S-20R DIRE.& ID.NO.LINE 104,AUX. BLDG.
COMMENT: PG&E PIPING ISO 449314, REV.3 ; PG&E PIPING ANALYSIS 4-3, DATE OF RUN 1/30/80. FIELD AGREES WITH PG&E ANALYSIS. IDVP COMPLETION REPORT CAN BE ISSUED IF PG&E INFORMS TES THAT THERE WILL BE NO PHYSICAL MODS.										
945	820120	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 55S-20R DIRE.& ID.NO.LINE 104,AUX. BLDG.
COMMENT: COMPONENT COOLING WATER ISO 449314 REV.3 SHOWS LINE 104 SUPPORTED AT THE J COLUMN LINE. NO SUPPORT ID NUMBER IS SPECIFIED. RLCA FIELD INSPECTION SHOWED SUPPORT LABELED AS 55S/20R. THIS SUPPORT WAS INCLUDED IN THE DESIGN ANALYSIS 4-3(800130). DEVIATION. NO PHY. MODS. PER PG&E COMPLETION SHEET 820521.										
946	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		LINE 1980 DIMENSION. AUXILIARY BUILDING.
COMMENT: ISO 446546 REV.8 DOES NOT SPECIFY DIMENSION OF VERTICAL RUN OF LINE 1980 BETWEEN VALVES 8922A AND 8921A ; FIELD INSPECTION SHOWED DIMENSION TO BE 8 INCHES.										
946	820120	FID	1	820319	RLCA	PER/C	TES	RDF		LINE 19[illegible] DIMENSION. AUXILIARY BUILDING.
COMMENT: PG&E ANALYSIS 8-21(780110) SHOWS DIMENSION BETWEEN VALVES TO BE 17 INCHES. DIFFERENCE EXCEEDS 79-14 TOLERANCE.										
946	820120	FID	2	820417	TES	ER/C	PG&E	RDF		LINE 1980 DIMENSION. AUXILIARY BUILDING.
COMMENT: PG&E PIPING ISO 446546, REV.8 ; PG&E PIPING ANALYSIS 8-21 DATED 1/10/78. RLCA 101 COMPUTER RUN SEQUENCE NO. RT2VBE7, DATED 2/26/82; 'AS-BUILT' LENGTH & DESIGN ANALYSIS DIFFER BY MORE THAN 79-14 TOLERANCE. ALL PIPE STRESS LESS THAN ALLOWABLE.										
946	820120	FID	3	820524	TES	CR	NONE	RDF	NO	LINE 1980 DIMENSION. AUXILIARY BUILDING.
COMMENT: THE LENGTH OF LINE 1980 BETWEEN VALVES 8922A AND 8921A ON D.R. ISO 446546 R8 IS NOT GIVEN. RLCA FIELD INSPECTION SHOWED 8 IN. DESIGN ANALYSIS 8-21 SHOWS 17 IN. RLCA 101 ANALYSIS SHOWS NO OVERSTRESS. DIMENSION DIFFERENCE EXCEEDS 79-14 TOLERANCE. ERROR CLASS C. NO PHYSICAL MODS. PER PG&E RESOLUTION SHEET 820521.										
947	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		VALVE 8821A ORIEN.LINE 3849, AUX. BUILDING.
COMMENT: SAFETY INJECTION ISO 446546 REV.8 SHOWS VALVE 8821A IN HORIZONTAL POSITION; FIELD INSPECTION SHOWED VALVE IN VERTICAL POSITION.										
947	820120	FID	1	820319	RLCA	ER/C	TES	RDF		VALVE 8821A ORIEN.LINE 3849, AUX. BUILDING.
COMMENT: PG&E ANALYSIS 8-1 SHOWS VALVE 8821A MODELED IN INCORRECT POSITION; RLCA WILL EXAMINE VALVE QUALIFICATION ACCELERATIONS; STRESSES DO NOT EXCEED ALLOWABLE.										
947	820120	FID	2	820417	TES	ER/C	PG&E	RDF		VALVE 8821A ORIEN.LINE 3849, AUX. BUILDING.
COMMENT: PG&E PIPING ISO 446546, REV.8. PG&E PIPING ANALYSIS 8-21 (1/10/78). RLCA 101 COMPUTER RUN SEQ. NO RT2VBE7 (2/26/82) VALVE INSTALLED VERTICALLY, ANALYZED HORIZONTALLY. ALL PIPE STRESS LESS THAN ALLOWABLE.										
947	820120	FID	3	820524	TES	CR	NONE	RDF	NO	VALVE 8821A ORIEN.LINE 3849, AUX. BUILDING.
COMMENT: VALVE 8821A IS SHOWN ON SAFETY INJECTION ISO 446546 R.8 AS BEING INSTALLED IN THE HORIZONTAL POSITION. RLCA FIELD INSPECTION SHOWED VALVE INSTALLED VERTICALLY. DESIGN ANALYSIS 8-21 (780110) SHOWS VALVE INSTALLED HORIZONTALLY. PG&E 101 ANALYSIS RUN (RT2VBE7) SHOWS NO OVERSTRESS. ERROR CLASS C. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820519.										
948	820120	FID	0	820120	RLCA	OIR	RLCA	RDF		SUPT. 13-23SL DIREC.LINE 314,CONTAINMENT BLDG.
COMMENT: PRESSURIZER POWER RELIEF ISO 446491 R. 10 DOES NOT GIVE DIRECTION OF RESTRAINT FOR SUPPORT 13/23SL ; FIELD INSPECTION SHOWED SNUBBER ACTING IN VERTICAL DIRECTION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
948	820120	FID	1	820302	RLCA	PPRR/DEV	TES	RDF		SUPT. 13-23SL DIREC.LINE 314,CONTAINMENT BLDG.
COMMENT: PIPING ANALYSIS 4A-5 REV.4 SHOWS SUPPORT 13/23SL TO BE ACTING IN VERTICAL DIRECTION; PG&E TO REVISE ISO.										
948	820120	FID	2	820417	TES	PRR/DEV	PG&E	RDF		SUPT. 13-23SL DIREC.LINE 314,CONTAINMENT BLDG.
COMMENT: PG&E PIPING ISO 446491, REV.10 ; PG&E PIPING ANALYSIS 4A-5. INFORMATION MISSING ON ISO. FIELD AGREES WITH PG&E ANALYSIS. PG&E TO REVISE ISO.										
948	820120	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 13-23SL DIREC.LINE 314,CONTAINMENT BLDG.
COMMENT: THE DIRECTION OF RESTRAINT FOR SUPPORT 13/23SL ON PRESSURIZER POWER RELIEF ISO 446491 REV.10 IS NOT GIVEN. RLCA FIELD INSPECTION SHOWED THE SNUBBER ACTING IN THE VERTICAL DIRECTION. DESIGN ANALYSIS 4A-5 SHOWS SUPPORT TO BE ACTING IN A VERTICAL DIRECTION. DEVIATION. NO PHYSICAL MODS. PER PG&E COMPLETION SHEET 820521.										
949	820120	ICD	0	820120	RLCA	PER/AB	TES	CHK		MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: ORIGINAL ANALYSIS CONSIDERED CABINET RIGID IN LONGITUDINAL DIRECTION. FIRST MODE FREQ. 14 Hz OR LESS BY INDEPENDENT CALCS. SEISMIC BRACING AT TOP OF CABINET - ANCHOR BOLTS EXCEED ALLOWABLE PULL OUT LOAD. ANNUNCIATOR EQUIPMENT QUALIFICATION WAS BASED ON A RIGID CABINET ASSUMPTION.										
949	820120	ICD	1	820421	TES	ER/AB	PG&E	CHK	YES	MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: ITR-1, 3.5.2.4 TO BE REVISED TO DELETE ADDITIONAL VERIFICATION. MAIN CONTROL BOARD IN WESTINGHOUSE SCOPE. PG&E CORRECTIVE ACTION NEEDED. SEE EOI 1008. MAIN ANNUNCIATOR CABINET ORIGINALLY CONSIDERED RIGID. INDEPENDENT CALCULATION BY RLCA (P105-4-570-001) FOUND FREQ. AS LOW AS 14 Hz. PG&E TO INVESTIGATE.										
949	820120	ICD	2	820903	TES	OIR	RLCA	CHK	YES	MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: DELETE FROM ITR-1.RLCA TO REVIEW PG&E CORRECTIVE ACTION SUBMITTED WITH PG&E RESOLUTION SHEET 820806 AND DWG-66 3101-75-2										
949	820120	ICD	3	830517	RLCA	PPRR/CI	TES	CHK	YES	MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: ORIGINAL ANALYSIS CONSIDERED CABINET RIGID IN LONGITUDINAL DIRECTION. INDEPENDENT CALC. SHOWED FIRST MODE FREQUENCY 14 HZ OR LESS. PG&E PROPOSED CHANGES OUTLINED IN RESOLUTION SHEET DATED 820806 AND REANALYZED IN DC663101-75-2. CABINET, AS MODIFIED, MEETS HOSGRI CRITERIA.										
949	820120	ICD	4	830523	TES	PRR/CI	TES	CHK	YES	MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: ORIGINAL ANALYSIS CONSIDERED CABINET RIGID IN LONGITUDINAL DIRECTION. INDEPENDENT CALC. SHOWED FIRST MODE FREQUENCY 14 HZ OR LESS. PG&E PROPOSED CHANGES OUTLINED IN RESOLUTION SHEET DATED 820806 AND REANALYZED IN DC663101-75-2. CABINET, AS MODIFIED, MEETS HOSGRI CRITERIA.										
949	820120	ICD	5	830523	TES	CR	NONE	CHK	YES	MAIN ANNUNCIATOR CABINET,AUX.BLDG.,RIGIDITY & FREQ.
COMMENT: ORIGINAL ANALYSIS CONSIDERED CABINET RIGID IN LONGITUDINAL DIRECTION. INDEPENDENT CALC. SHOWED FIRST MODE FREQUENCY 14 HZ OR LESS. PG&E PROPOSED CHANGES OUTLINED IN RESOLUTION SHEET DATED 820806 AND REANALYZED IN DC663101-75-2. CABINET, AS MODIFIED, MEETS HOSGRI CRITERIA. CLOSED ITEM.										
950	820128	FID	0	820128	RLCA	OIR	RLCA	JCT		VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: ITR-1, 3.5.1.3, FIELD INSPECTION SHOWS UNDERSIZE PLATE INSTALLED ON FCV-95. DCO-G-M-876 REQUIRES 1/2 INCH PLATE. 3/8 INCH PLATE INSTALLED.										
950	820128	FID	1	820419	RLCA	PER/C	TES	JCT		VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: RLCA P105-4-550-017 SHOWS ALL STRESSES BELOW ALLOWABLE.										
950	820128	FID	2	820510	TES	ER/C	PG&E	JCT		VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: VALVE FCV-95 MODIFIED BY PG&E DCO-G-M-876. PLATES SHOWN 1/2IN THICK. RLCA FIELD INSPECTION SHOWS PLATES 3/8IN THICK. RLCA INDEPENDENT CALCS OF VALVE SHOWS ALL STRESSES BELOW ALLOWABLE. IDVP COMPLETION REPORT CAN BE ISSUED IF PG&E INFORMS TES THAT THERE WILL BE NO PHYSICAL MODIFICATIONS.										
950	820128	FID	3	820524	TES	OIR	RLCA	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: PHYSICAL MODIFICATION TO BE MADE PER PG&E RESOLUTION REPORT 820521.										
950	820128	FID	4	820526	TES	OIR	RLCA	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: ITR-1, 3.5.1.3, REV. 4 ISSUED TO CORRECT VALVE # GIVEN IN R.3										
950	820128	FID	5	820628	RLCA	PPRR/CI	TES	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.
COMMENT: ITR-1, 3.5.1.3, PHYSICAL MODIFICATION COMPLETE PER RLCA P 105-4-591.5-108										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
950	820128	FID	6	820701	TES	PRR/CI	TES	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: ITR-1, 3.5.1.3, PHYSICAL MODIFICATION COMPLETE, TES SITE VISIT SUMMARY, 820625.

950	820128	FID	7	820701	TES	CR	NONE	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: FIELD INSPECTION SHOWS UNDERSIZE PLATE INSTALLED ON FCV-95. DCO-G-M-876 REQUIRES 1/2 INCH PLATE. 3/8 INCH PLATE INSTALLED. PHYSICAL MOD. PER PG&E COMPLETION SHEET 820713 CORRECTED DISCREPENCY. ER/C, ALL STRESSES BELOW ALLOWABLE WITH OR WITHOUT MOD.

950	820128	FID	8	830422	TES	OIR	RLCA	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: MODIFICATION OF 1/2" STIFFENER PLATE TO VALVE FCV-37 PER DCO-G-M-876 NOT IMPLEMENTED. FIELD OBSERVED TO HAVE 3/8" PLATES. CONCERNED DESIGN ANALYSIS FOR THESE VALUES MAY NOT REFLECT AS-BUILT CONDITION. RLCA TO REVIEW AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

950	820128	FID	9	830429	RLCA	PPRR/OIP	TES	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: DURING FIELD VERIFICATION BY IDVP FOR OTHER EQUIPMENT, OBSERVATION THAT FCV-37 STIFFNER PLATES WERE 3/8" NOT 1/2" PER DCO-G-M-876. DESIGN ANALYSES FOR THESE VALVES MAY NOT REFLECT AS-BUILT. PG&E TO REEXAMINE AS-BUILT AND RESPOND.

950	820128	FID	10	830504	TES	PRR/OIP	PG&E	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: DURING FIELD VERIFICATION BY IDVP FOR OTHER EQUIPMENT, OBSERVATION THAT FCV-37 STIFFNER PLATES WERE 3/8" NOT 1/2" PER DCO-G-M-876. DESIGN ANALYSES FOR THESE VALVES MAY NOT REFLECT AS-BUILT. PG&E TO REEXAMINE AS-BUILT AND RESPOND.

950	820128	FID	11	830608	TES	OIR	RLCA	JCT	YES	VALVE FCV 95 PLATE THICKNESS. AUX. BUILDING.

COMMENT: DESIGN ANALYSIS FOR THESE VALVES MAY NOT REFLECT AS-BUILT CONDITIONS. TES REQUESTS RLCA TO VERIFY THAT 1/2" PLATES HAVE BEEN INSTALLED ON THE SEVEN VALVES INCLUDED IN DCO-G-M-876.

950	0		12	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

950	0		13	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

950	0		14	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

950	0		15	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

950	0		16	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

951	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 1-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: AUXILIARY FEEDWATER ISO 445878 REV.14 LOCATION OF SUPPORT 1/27R DISAGREES WITH FIELD INSPECTION LOCATION. ISO SHOWS DIMENSION AS 9 INCHES FROM ELBOW. RLCA FIELD INSPECTION SHOWED 35 INCHES FROM ELBOW.

951	820129	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		SUPT. 1-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: PG&E PIPING ANALYSIS 2-17 LOCATION DISAGREES WITH FIELD INSPECTION LOCATION; PG&E ANALYSIS SHOWS DIMENSION AS 33.25 INCHES FROM ELBOW. PG&E TO REVISE ISO.

951	820129	FID	2	820417	TES	PRR/DEV	PG&E	RDF		SUPT. 1-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: PG&E PIPING ISO 445878, REV.14 ; PG&E PIPING ANALYSIS 2-17 DATED 5/7/82. INFORMATION INCORRECT ON ISO. FIELD AGREES WITH DESIGN ANALYSIS WITHIN 79-14 TOLERANCES.

951	820129	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 1-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: SUPPORT 1/27R IS SHOWN ON AUX. FEEDWATER ISO 445878 REV.14 TO BE LOCATED 9 INCHES FROM THE ELBOW.RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE LOCATED 35 INCHES FROM THE ELBOW. DESIGN ANALYSIS 2-17 (820507) SHOWS SUPPORT 1/27R TO BE LOCATED 33 1/4" FROM ELBOW (WITHIN 79-14 TOLERANCE) DEVIATION. NO PHY. MODS. PER PG&E COMPLETION SHEET 820521.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
952	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 3-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: AUXILIARY FEEDWATER ISO 445878 REV.14 DIMENSION BETWEEN VALVE FCV-37 AND SUPPORT 3/27V DISAGREES WITH FIELD INSPECTION DIMENSION. ISO SHOWS DIMENSION AS 4 INCHES. RLCA SHOWS DIMENSION AS 12 INCHES.

952	820129	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		SUPT. 3-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: PG&E PIPING ANALYSIS 2-17 DIMENSION DISAGREES WITH FIELD INSPECTION DIMENSION; PG&E ANALYSIS SHOWS DIMENSION AS 14 IN. PG&E TO REVISE ISO.

952	820129	FID	2	820417	TES	PRR/DEV	PG&E	RDF		SUPT. 3-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: PG&E PIPING ISO 445878, REV.14 ; PG&E PIPING ANALYSIS 2-17 DATED 5/7/82. INFORMATION INCORRECT ON ISO. FIELD AGREES WITH DESIGN ANALYSIS WITHIN 79-14 TOLERANCES.

952	820129	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 3-27 LOCATION.LINE 593, AUX. BUILDING.

COMMENT: THE DIMENSION BETWEEN VALVE FCV 37 & SUPPORT 3/27V IS SHOWN ON AUX. FEEDWATER ISO 445878 R 14. TO BE 4 INCHES. RLCA FIELD INSPECTION SHOWED THIS DIMENSION TO BE 12 INCHES. DESIGN ANALYSIS 2-17 820507 SHOWS DIMENSION TO BE 14 INCHES, WITHIN 79-14 TOLERANCE. DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820519.

953	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 58S-69R DIREC.LINE 574, AUX. BUILDING.

COMMENT: AUXILIARY FEEDWATER ISO 447119 REV.12 SHOWS SUPPORT 58S/69R TO BE ACTIVE IN 'Z' & 'Y' DIRECTIONS; FIELD INSPECTION SHOWED 'X','Y' AND 'Z' DIRECTIONS.

953	820129	FID	1	820430	RLCA	PER/C	TES	RDF		SUPT. 58S-69R DIREC.LINE 574, AUX. BUILDING.

COMMENT: PG&E ANALYSIS 2-14 USES Y & Z DIRECTION SUPPORT. THE INPUTTING OF AN X, Y, & Z SUPPORT DOES NOT CAUSE OVERSTRESS IN RLCA 109 ANALYSIS.

953	820129	FID	2	820607	TES	ER/C	PG&E	RDF		SUPT. 58S-69R DIREC.LINE 574, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4 ; PG&E PIPING ISO 447119, REV.12 ; PG&E PIPING ANALYSIS 2-14 DATED 7/26/77 AND 1/6/82. RLCA PIPING ANALYSIS RLCA 109 SEQ # K15YCVF DATED 5/9/82. ADDITIONAL SUPPORT ADDED IN FIELD. ALL PIPE STRESS LESS THAN ALLOWABLE.

953	820129	FID	3	820708	TES	CR	NONE	RDF	NO	SUPT. 58S-69R DIREC.LINE 574, AUX. BUILDING.

COMMENT: SUPPORT 58S/69R IS SHOWN ON AUX. FEEDWATER ISO 447119 REV.12 TO BE ACTIVE IN THE Z & Y DIRECTION. RLCA FIELD INSPECTION SHOWED THIS SUPT. TO BE ACTIVE IN THE X,Y & Z DIRECTIONS. DESIGN ANAL. 2-14 (770726 & 820106) SHOWS A Z & Y SUPPORT RLCA 109 ANALYSIS RUN (K154CVF) SHOWS NO OVERSTRESS.ERROR CLASS C.NO PHY.MODS.PER PG&E RESOL. SHEET 820628

954	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 58S-56R LOCATION. LINE 574,AUX. BLDG.

COMMENT: PG&E AUXILIARY FEEDWATER ISO 447119 REV.12 SHOWS SUPPORT 58S/56R 5 FT. 2 IN. FROM ELBOW. RLCA FOUND SUPPORT 7 FT. 8 IN. FROM ELBOW.

954	820129	FID	1	820430	RLCA	PER/C	TES	RDF		SUPT. 58S-56R LOCATION. LINE 574,AUX. BLDG.

COMMENT: SUPPORT 58S/56R LOCATION IN DESIGN ANALYSIS 2-14 AGREES WITH ISOMETRIC. THIS ERROR DOES NOT CAUSE AN OVERSTRESS.

954	820129	FID	2	820510	TES	ER/C	PG&E	RDF		SUPT. 58S-56R LOCATION. LINE 574,AUX. BLDG.

COMMENT: ITR-1, 3.2.4 ;PG&E PIPING ISO 447119, REV.12 ; PG&E PIPING ANALYSIS 2-14 DATED 7/26/77 AND 1/6/82. RLCA PIPING ANALYSIS RLCA 109 SEQ # K15YCVF DATED 5/9/82. SUPPORT RELOCATED MORE THAN 79-14 ALLOWANCE. ALL PIPE STRESS LESS THAN ALLOWABLE.

954	820129	FID	3	820708	TES	CR	NONE	RDF	NO	SUPT. 58S-56R LOCATION. LINE 574,AUX. BLDG.

COMMENT: SUPPORT 58S/56R IS SHOWN ON AUX. FEEDWATER ISO 447119 R.12 TO BE 5'-2" FROM THE ELBOW. RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE LOCATED 7'-8" FROM ELBOW. DESIGN ANALYSIS 2-14 (770726 & 820106) SHOWS SUPPORT TO BE LOCATED 5'-2" FROM THE ELBOW, OUTSIDE 79-14 TOLERANCES. ERROR CLASS C.NO PHY. MODS. PER PG&E RESOLUTION SHEET 820621.

955	820129	OD	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 58S-57R IDENT.LINE 574, AUX. BLDG.

COMMENT: TWO SUPPORTS, BOTH LABELED 58S/57R, ARE SHOWN ON PG&E AUXILIARY FEEDWATER ISO. 447119 R.12. IT IS RLCA'S UNDERSTANDING THAT PG&E'S UNIT 1 SUPPORT NOMENCLATURE CALLS FOR UNIQUE NUMBERS AT SPECIFIC LOCATIONS.

955	820129	OD	1	820316	RLCA	PPRR/CI	TES	RDF		SUPT. 58S-57R IDENT.LINE 574, AUX. BLDG.

COMMENT: TWO SUPPORTS, BOTH LABELED 58S/57R, ARE SHOWN ON PG&E AUXILIARY FEEDWATER ISO. 447119 R.12. THE PG&E DRAWING FOR THE SUPPORT SHOWS THIS RESTRAINT AT TWO SEPERATE LOCATIONS ON THE LINE.

955	820129	OD	2	820409	TES	CR	NONE	RDF	NO	SUPT. 58S-57R IDENT.LINE 574, AUX. BLDG.

COMMENT: 2 SUPPORTS, BOTH LABELED 58S/57R, ARE SHOWN ON AUX.FEEDWATER ISO 447119 REV.12.PG&E DRAWING FOR SUPPORT 58S/57R (SUPPORT DRAWING 049264 SHEETS 48 & 48A) SHOWS THIS RESTRAINT AT TWO SEPARATE LOCATIONS ON LINE 574. INVALID.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
956	820129	FID	0	820129	RLCA	DIR	RLCA	RDF		SUPT. 58S-69R LOCATION,LINE 574, AUX. BLDG.

COMMENT: SUPPORT 58S/69R ON PG&E AUXILIARY FEEDWATER ISO 447119, REV.12, IS LOCATED 3 FT. FROM ELBOW. RLCA FOUND DIMENSION TO BE 2 FT. 1 INCH.

956	820129	FID	1	820430	RLCA	PER/C	TES	RDF		SUPT. 58S-69R LOCATION,LINE 574, AUX. BLDG.

COMMENT: DESIGN ANALYSIS 2-14 AGREES WITH ISOMETRIC. DIFFERENCES EXCEED THE 79-14 TOLERANCE. DOES NOT CAUSE AN OVERSTRESS IN RLCA 109 ANALYSIS.

956	820129	FID	2	820510	TES	ER/C	PG&E	RDF		SUPT. 58S-69R LOCATION,LINE 574, AUX. BLDG.

COMMENT: ITR-1, 3.2.4 ; PG&E PIPING ISO 447119, REV.12. PG&E PIPING ANALYSIS 2-14 DATED 7/26/77 AND 1/6/82. RLCA PIPING ANALYSIS RLCA 109 SEQ # K15YCVF DATED 5/9/82. SUPPORT RELOCATED MORE THAN 79-14 ALLOWANCE. ALL PIPE STRESS LESS THAN ALLOWABLE.

956	820129	FID	3	820524	TES	CR	NONE	RDF	NO	SUPT. 58S-69R LOCATION,LINE 574, AUX. BLDG.

COMMENT: SUPT. 58S/69R ON AFW ISO 447119 R.12 IS 3 FEET FROM ELBOW. SUPT. INSTALLED 2 FEET 1 INCH FROM ELBOW. PG&E DESIGN ANALYSIS 2-14 SHOWS SUPPORT 3 FEET FROM ELBOW, OUTSIDE 79-14 TOLERANCE, RLCA 109 ANALYSIS (K15YCVF) SHOWS NO OVERSTRESS. ERROR CLASS C. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820519.

957	820129	FID	0	820129	RLCA	DIR	RLCA	RDF		LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: PG&E AUXILIARY FEEDWATER ISO 447119 REV.12 SHOWS LINES 577 & 578 TO BE INSULATED. RLCA FOUND THEM NOT TO BE.

957	820129	FID	1	820510	RLCA	PER/C	TES	RDF		LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: PG&E CURRENTLY INSULATING LINES. SLIGHT DIFFERENCE IN WEIGHT OF LINES. THIS ITEM DOES NOT CAUSE AN OVERSTRESS IN RLCA 109 ANALYSIS.

957	820129	FID	2	820607	TES	ER/C	PG&E	RDF		LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4 ; PG&E PIPING ISO 447119, REV.12 ; PG&E LETTER DCVP-RLCA-49 DATED 4/7/82. RLCA LETTER TO ROY FRAY FROM EDWARD DENISON DATED 3/10/82. RLCA PIPING ANALYSIS RLCA 109 SEQ # K15CVF (5/9/82). INSULATION NOT INSTALLED AS INPUT IN PG&E DESIGN ANALYSIS. NO OVERSTRESS.

957	820129	FID	3	820707	TES	DIR	RLCA	RDF	YES	LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4, RLCA TO VERIFY PG&E CORRECTIVE ACTION IN ADDING INSULATION.

957	820129	FID	4	820715	RLCA	PPRR/CI	TES	RDF	YES	LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4 ; RLCA FIELD VERIFICATION SHOWED THAT THE LINES HAD BEEN INSULATED IN RESPONSE TO THIS EOI.

957	820129	FID	5	820723	TES	PRR/CI	TES	RDF	YES	LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: ITR-1, 3.2.4 ; P105-4-591. 5-110 RLCA FIELD VERIFICATION (7-14-82) SHOWED THAT THE LINES HAD BEEN INSULATED IN RESPONSE TO THIS EOI.

957	820129	FID	6	820723	TES	CR	NONE	RDF	YES	LINES 577 & 578 INSULATION, AUX. BUILDING.

COMMENT: LINES 577 & 578 ON AFW ISO 447119 R.12 TO BE INSULATED. NOT INSULATED IN FIELD. PG&E DESIGN ANALYSIS 2-14 HAS INSULATION ON LINES. RLCA 109 ANALYSIS (K15YCVF) SHOWS NO OVERSTRESS AND DIFFERENT WT/IN. ERROR CLASS C. INSULATION LATER INSTALLED AND VERIFIED.

958	820129	FID	0	820129	RLCA	DIR	RLCA	RDF		SUPT. 58S-55V LOCATION,LINE 577, AUX. BLDG.

COMMENT: PG&E AUXILIARY FEEDWATER ISO 447119, REV.12 SHOWS SUPPORT 58S/55V ON HORIZONTAL RUN ABOVE TEE. RLCA LOCATES SUPPORT 8 IN. BELOW TEE.

958	820129	FID	1	820521	RLCA	PER/C	TES	RDF		SUPT. 58S-55V LOCATION,LINE 577, AUX. BLDG.

COMMENT: ITR-1, 3.2.4; PG&E LOAD BALANCE 2-14 AGREES WITH ISOMETRIC. THIS ITEM DOES NOT CAUSE AN OVERSTRESS IN RLCA PIPING ANALYSIS 109.

958	820129	FID	2	820629	TES	DIR	RLCA	RDF		SUPT. 58S-55V LOCATION,LINE 577, AUX. BLDG.

COMMENT: ITR-1, 3.2.4 THE MOVING OF A SPRING HANGER 8" DOWN ON A VERTICAL 3" PIPE WILL NOT AFFECT LOADS OR STRESSES ON THE PIPING IN ANY WAY AND THEREFORE TES IS NOT IN AGREEMENT WITH RLCA'S POTENTIAL ERROR C IN FILE REVISION 1. TES FEELS THAT THIS ITEM SHOULD BE CONSIDERED A DEVIATION.

958	820129	FID	3	820702	RLCA	PPRR/DEV	TES	RDF		SUPT. 58S-55V LOCATION,LINE 577, AUX. BLDG.

COMMENT: ITR-1, 3.2.4 THE MOVING OF A SPRING HANGER 8" DOWN ON A VERTICAL 3" PIPE WILL NOT AFFECT LOADS OR STRESSES ON THE PIPING IN ANY WAY.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
958	820129	FID	4	820707	TES	PRR/DEV	PG&E	RDF		SUPT. 58S-55V LOCATION.LINE 577, AUX. BLDG.
COMMENT: DELETE FROM ITR-1, 3.2.4 ; PG&E PIPING ISO 447119, REV.12. PG&E PIPING ANALYSIS 2-14. RLCA PIPING ANALYSIS RLCA 109 SEQ # K15YCVF DATED 5/9/82. THE DESIGN ISO DOES NOT AGREE WITH FIELD CONFIGURATION WITHIN THE 79-14 TOLERANCES. A VERTICAL SPRING HANGER 8" DOWN ON A VERTICAL 3" PIPE WILL NOT AFFECT LOADS OR STRESSES ON THE PIPING.										
958	820129	FID	5	820708	TES	CR	NONE	RDF	NO	SUPT. 58S-55V LOCATION.LINE 577, AUX. BLDG.
COMMENT: SUPPORT 58S/55V ON AFW ISO 447119 R.12 AND LOAD BALANCE 2-14 IS ON HORIZ. RUN OF TEE. RLCA LOCATED IT 8 INCH BELOW TEE OUTSIDE 79-14 TOLERANCE. RLCA 109 ANALYSIS (K15YCVF) SHOWS NO OVERSTRESS. INSTALLED LOCATION HAS NO AFFECT ON LOADS. DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820615.										
959	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 11-49SL LOCATION.LINE 20, CONTAINMENT BLDG.
COMMENT: PG&E PRESSURIZER RELIEF ISO 445884, REV.8 SHOWS SUPPORT 11/49SL NEXT TO REDUCER AT EL. 163 FT. ON LINE 20. RLCA FOUND IT TO BE NEXT TO BEND AT EL. 155 FT.										
959	820129	FID	1	820519	RLCA	PER/C	TES	RDF		SUPT. 11-49SL LOCATION.LINE 20, CONTAINMENT BLDG.
COMMENT: ITR-1, 3.2.4 ; DESIGN ANALYSIS 3-5 AGREES WITH ISOMETRIC. STRESSES IN RLCA PIPING ANALYSIS 105 IS BELOW ALLOWABLES.										
959	820129	FID	2	820619	TES	ER/C	PG&E	RDF		SUPT. 11-49SL LOCATION.LINE 20, CONTAINMENT BLDG.
COMMENT: ITR-1, 3.2.4 ; PG&E LETTER DCVP-RLCA-80 (RLCA FILE P105-4-959-003), PIPING ISO 445884,R.8 (RLCA FILE P105-4-454), PIPING ANALYSIS 3-5 (9/2/77) (RLCA FILE P105-4-432).RLCA PIPING ANALYSIS RLCA 105 COMPUTER SEQUENCE NO K15TNGB (RLCA FILE P105-4-521-036) MAXIMUM STRESS FOR THIS MODEL IS APPROXIMATELY 7,200 PSI. THIS IS BELOW ALLOWABLE.										
959	820129	FID	3	820628	TES	CR	NONE	RDF	NO	SUPT. 11-49SL LOCATION.LINE 20, CONTAINMENT BLDG.
COMMENT: SUPPORT 11/49SL IS SHOWN ON PRESSURIZER RV. SYSTEM ISO 445884 REV.8 AND IN DESIGN ANALYSIS 3-5(770902) ADJACENT TO REDUCER AT EL 163' ON LINE 20. RLCA FIELD INSPECTION SHOWED THE SUPPORT TO BE LOCATED ADJACENT TO THE BEND AT EL.155 FEET. RLCA 105 ANALYSIS RUN (K15TNGB) SHOWED NO OVERSTRESS.ERROR C.NO PHYS.MODS. PER PG&E RESOLUTION SHEET 820615.										
960	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		PRV LINE 19 DIMENSION, CONTAINMENT BLDG.
COMMENT: PG&E PRESSURER RELIEF ISO 445884, REV.8 HAD ELEVATION OF FIRST 45 DEGREE ELBOW ABOVE HEADER ON LINE 19 AS 166 FT. 21" RLCA SHOWED ELEVATION AS 155 FT. 1 INCH.										
960	820129	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		PRV LINE 19 DIMENSION, CONTAINMENT BLDG.
COMMENT: PG&E USED 156 FT. 1 3/16 IN. ON DESIGN ANALYSIS 3-5. PG&E FIELD INSPECTION FOUND ELEVATION TO BE 156 FT. 2 INCHES. PG&E TO REVISE ISO.										
960	820129	FID	2	820417	TES	PRR/DEV	PG&E	RDF		PRV LINE 19 DIMENSION, CONTAINMENT BLDG.
COMMENT: PG&E ISO. 445884 R.8 , PG&E ANALYSIS 3-5 (800703). INFORMATION ON ISOMETRIC INCORRECT. FIELD AGREES WITH PG&E ANALYSIS WITHIN 79-14 TOLERANCES. PG&E TO REVISE ISO.										
960	820129	FID	3	820524	TES	CR	NONE	RDF	NO	PRV LINE 19 DIMENSION, CONTAINMENT BLDG.
COMMENT: THE ELEVATION OF THE LINE 19 45 ELBOW ABOVE HEADER ON PRV ISO 445884 R8 IS 166'-21"; 155' 1" PER RLCA FIELD INSPEC; 156'-1 3/16" PER DESIGN ANALYSIS 3-5; 156'-2" PER PG&E FIELD INSPECTION. DOCUMENTED IN DENISON-TRESLER 820306 TELECON DEVIATION. NO PHY. MOD PER PG&E RES. 820519										
961	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.
COMMENT: PRESSURIZER RELIEF ISO 445884 REV.8 SHOWS SUPPORT 11/59SL TO BE ACTIVE IN VERTICAL DIRECTION; RLCA FIELD INSPECTION SHOWED TWO SKEWED SNUBBERS 20 & 25 DEGREES RESPECTIVELY FROM VERTICAL.										
961	820129	FID	1	820519	RLCA	PPRR/OIP	TES	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.
COMMENT: SEISMIC LOAD COMPUTED BY RLCA ANALYSIS RLCA 105 IS GREATER THAN THAT IN THE DESIGN ANALYSIS 3-5 ; RECOMMEND PG&E TO ASSESS THE IMPACT OF THIS ITEM										
961	820129	FID	2	820619	TES	PRR/OIP	PG&E	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.
COMMENT: ITR-1, 3.2.4,PG&E LTR DCVP-RLCA-115(6/3/82)(P105-4-961-005),PIPING ISO 445884,R.8(P105-4-454),SUPT. DWG. 049309,R.2 (P105-4-454),RLCA PIPING ANALYSIS RLCA 105 COMPUTER SEQ. NO. K15TNGB (P105-4-521-036).STRESSES ARE LESS THAN ALLOWABLE SINCE THE SNUBBER LOADS DUE TO SEISMIC HAVE INCREASED.PG&E SHOULD ASSESS IMPACT.										
961	820129	FID	3	820910	TES	OIR	RLCA	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.
COMMENT: BASED ON PG&E PRESENTATIONS (AUGUST 6 & 26, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, TES AND RLCA WILL RECONSIDER COMBINING THIS FILE WITH FILES 1021, 1058, 1059 & 1098 INTO ONE ERROR CLASS A OR B FILE.										
961	820129	FID	4	820913	RLCA	PPRR/CI	TES	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.
COMMENT: BASED ON PG&E PRESENTATIONS (8/6/82 AND 8/26/82) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 1021, 1058, 1059, AND 1098 INTO ONE ERROR CLASS "A" OR "B" FILE. SEE FILE 1098 FOR ERROR REPORT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
961	820129	FID	5	820921	TES	PRR/CI	TES	RDF		PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.

COMMENT: DELETE FROM ITR-1, 3.2.4 ; PG&E LETTER DCVP-RLCA-115(6/3/82); PG&E ISO. 445884 R8; PG&E SUPT DWG 049309, R2; RLCA PIPING ANAL 105 (K15TWGB). SNUBBER LOADS DUE TO SEISMIC HAVE INCREASED. THIS FILE HAS BEEN COMBINED INTO 1098 AND IS DESIGNATED AS ERROR A/B.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
961	820129	FID	6	820921	TES	CR	NONE	RDF	NO	PRV SUPT.11-59SL DIREC.LINE 19,CONT. BLDG.

COMMENT: SUPT. 11/59SL IS SHOWN TO BE ACTIVE IN THE VERT. DIRE. ON PG&E DESIGN. REVIEW ISO 445884 REV.8.RLCA FIELD INSPECT.SHOWED 2 SKEWED SNUBBERS 20 & 25 DEGS RESP FROM VERTICAL.THE SEIMIC LOAD COMPUTED(RLCA)IS GREATER THAN THAT COMPUTED IN THE DESIGN ANAL.THIS FILE HAS BEEN COMBINED INTO FILE 1098 AND DESIGNATED AS AN ERROR A/B.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
962	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		PRV SUPT.48-44R DIREC.LINE 21, CONT. BLDG.

COMMENT: SUPPORT 48/44R SHOWN IN PG&E PRESSURIZER RELIEF ISO 445884,REV.8 ACTIVE IN E-W DIRECTION. RLCA FOUND IT ACTIVE E-W & N-S DIRECTION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
962	820129	FID	1	820519	RLCA	PPRR/CI	TES	RDF		PRV SUPT.48-44R DIREC.LINE 21, CONT. BLDG.

COMMENT: INITIAL RLCA FIELD INFO IN ERROR. SUPPORT NOT ACTIVE IN N-S DIRECTION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
962	820129	FID	2	820621	TES	PRR/CI	TES	RDF		PRV SUPT.48-44R DIREC.LINE 21, CONT. BLDG.

COMMENT: PG&E PIPING ISO 445884, REV.8, RLCA FIELD NOTES P105-4-591.5-070, SHEET 11 OF 12. SUPPORT NOT ACTIVE IN N-S DIRECTION. INITIAL RLCA FIELD INFORMATION WAS IN ERROR.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
962	820129	FID	3	820621	TES	CR	NONE	RDF	NO	PRV SUPT.48-44R DIREC.LINE 21, CONT. BLDG.

COMMENT: SUPPORT 48/44R IS SHOWN ON PRESSURIZER RV ISO 445884 REV.8 TO BE ACTIVE IN THE E-W DIRECTION. RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE ACTIVE IN BOTH THE E-W & N-S DIRECTIONS. LATER RLCA WALKDOWN (DOCUMENTED IN P105-4-591.5-070) INDICATED INITIAL RLCA FIELD INFORMATION WAS IN ERROR.THE SUPPORT IS NOT ACTIVE IN THE N-S DIRECTION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: RHR ISO 446542 REV.10 SHOWS SUPT. 58S/32R ON LINE 2519 TO BE ACTIVE IN VERTICAL AND EW DIRECTIONS. RLCA FIELD INSPECTION SHOWS 1/4" GAP IN BOTH DIRECTIONS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	1	820316	RLCA	OIR	RLCA	RDF		SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: SUPPORT 58S/32R IS LOCATED ON LINE 279, NOT LINE 2519 AS SHOWN ON REV.0 OF EDI 963. PG&E RHR ISO 446542 REV.10 SHOWS SUPPORT ACTIVE IN BOTH VERTICAL AND E-W DIRECTIONS. RLCA FIELD INSPECTION SHOWS 1/4 INCH GAP IN BOTH DIRECTIONS OF RESTRAINT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	2	820510	RLCA	PER/C	TES	RDF		SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: DESIGN ANALYSIS 8-34 AND PG&E ISO. 446542 REV. 10 SHOW SUPPORT ACTIVE IN VERTICAL AND E-W DIRECTION. RLCA 107 ANALYSIS (WITH SUPPORT INACTIVE) SHOWS NO OVERSTRESS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	3	820709	TES	OIR	RLCA	RDF		SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: ITR-1, 3.2.4, TES RECOMMENDS ER/B ANALYSIS TO SHOW GAPS ACCEPTABLE. TES FEELS GAPS ACCEPTABLE FOR PIPE STRESS REQUIREMENTS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	4	820713	RLCA	PER/B	TES	RDF		SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: ALTHOUGH GAPS EXCEED 79-14 TOLERANCES, THEY WILL RESTRAIN A PORTION OF TOTAL FREE DISPLACEMENT THAT ANALYSIS INDICATED WOULD OCCUR IF SUPPORTS DID NOT EXIST.NONLINEAR ANALYSIS WOULD PROBABLY INDICATE EXISTNG GAPS ARE ACCEPTABLE FOR PIPE STRESS REQUIREMENTS. PG&E TO SHOW GAPS ACCEPTABLE OR SHIM THE GAPS TO MEET DCM-M9.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	5	820719	TES	ER/B	PG&E	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: ITR-1, 3.2.4, SUPPORT 58S/32R ON ISO 446542 R10 & IN PG&E ANALYSIS 8-34 IS DESIGNATED AS A Y-Z SUPT. FIELD INSPECTION SHOWED 1/4 IN. GAP IN BOTH DIRECTIONS. RLCA 107 ANALYSIS SHOWS PIPING MOVES MORE THAN 1/4 IN. AND HIGH STRESSES. IDVP SUGGESTS PG&E TO EITHER PERFORM A NONLINEAR ANALYSIS OR SHIM THE SUPPORT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	6	821013	TES	OIR	RLCA	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: RATHER THAN PERFORM NONLINEAR ANALYSIS, PG&E WENT PRACTICAL ROUTE AND SHIMMED THE GAPS TO REFLECT DESIGN ANALYSIS. PG&E COMP. REPORT (820930) FROM R.R.FRAY INDICATED APPROPRIATE MODS. WERE COMPLETED. RLCA TO VERIFY THE ADDITION OF SHIMS TO SUPPORT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	7	821015	TES	OIR	RLCA	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: TO CORRECT TYPOGRAPHICAL ERROR ON REV.6. RATHER THAN PERFORM NONLINEAR ANALYSIS, PG&E WENT PRACTICAL ROUTE AND SHIMMED THE GAPS TO REFLECT DESIGN ANALYSIS. PG&E COMP. REPORT (820930) FROM R.R.FRAY INDICATED APPROPRIATE MODS. WERE COMPLETED RLCA TO VERIFY THE ADDITION OF SHIMS TO SUPPORT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	8	821021	RLCA	PPRR/CI	TES	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: THE VERTICAL AND EW GAPS ON SUPPORT 58S/32R HAVE BEEN SHIMMED TO WITHIN THE 79-14 TOLERANCE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
963	820129	FID	9	821029	TES	PRR/CI	TES	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: P105-4-591.5-150 RLCA FIELD VERIFICATION (821015). THE VERTICAL AND EW GAPS ON SUPPORT 58S/32R HAVE BEEN SHIMMED TO WITHIN THE 79-14 TOLERANCES.

963	820129	FID	10	821029	TES	CR	NONE	RDF	YES	SUPT. 58S-32R DIREC. CONT. SPRAY LINE 279,AUX.BLDG.

COMMENT: PG&E ISO 446542 R 10 AND DESIGN ANALYSIS 8-34 SHOWS SUPPORT 58S/32R ACTIVE IN BOTH VERTICAL AND EW DIRECTIONS. RLCA FIELD INSPECTION SHOWED A 1/4" GAP IN BOTH DIRECTIONS OF RESTRAINT. GAP EXCEEDS 79-14 TOLERANCE. FIELD VERIFICATION (821015) SHOWS GAP ON SUPPORTS TO BE SHIMMED WITHIN TOLERANCE. CLOSED ITEM.

964	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		CONT-SPRAY LINE 2519 SUPT. IDEN. AUX. BLDG.

COMMENT: FIELD INSPECTION SHOWED A N-S RIGID SUPPORT ON LINE 2519 TO BE LOCATED 3 FT. 10 INCHES FROM THE ELBOW BELOW ELEVATION 100. RHR ISO 446542 R. 10 SHOWS NO SUPPORT.

964	820129	FID	1	820403	RLCA	OIR	RLCA	RDF		CONT-SPRAY LINE 2519 SUPT. IDEN. AUX. BLDG.

COMMENT: REV.0 INCORRECTLY IDENTIFIED LINE AS 2519. LINE 279 IS CORRECT.

964	820129	FID	2	820426	RLCA	PER/C	TES	RDF		CONT-SPRAY LINE 2519 SUPT. IDEN. AUX. BLDG.

COMMENT: DESIGN ANALYSIS 8-34 DOES NOT SHOW THIS SUPPORT. THIS ITEM DOES NOT CAUSE AN OVERSTRESS IN ANALYSIS RLCA 107.

964	820129	FID	3	820510	TES	ER/C	PG&E	RDF	YES	CONT-SPRAY LINE 2519 SUPT. IDEN. AUX. BLDG.

COMMENT: PG&E ISO 446542, REV.10 ; PG&E PIPING ANALYSIS 8-34 DATED 7/1/80; RLCA PIPING ANALYSIS RLCA 107,SEQUENCE # K15TRR7 (3/3/82).THE ADDITION OF NS RIGID SUPPORT ON LINE 279 DOES NOT PRODUCE AN OVERSTRESS. PG&E RESOLUTION 820602 STATES MODIFICATION REQUIRED. TES ISSUE OIR WHEN COMPLETE.

964	820129	FID	4	821201	TES	CR	NONE	RDF	NO	CONT-SPRAY LINE 2519 SUPT. IDEN. AUX. BLDG.

COMMENT: FIELD INSPECTION SHOWED N-S RIGID SUPPORT ON LINE 2519 LOCATED 3' 10" FROM ELBOW BELOW EL. 100'. RHR ISO 446542 REV. 10 SHOWS NO SUPPORT. WRONG LINE NUMBERS, 279 IS CORRECT. DESIGN ANALYSIS 8-34 DOESN'T SHOW SUPPORT. NO OVERSTRESS IN RLCA ANALYSIS 107. PG&E RERAN LINE. NO OVERSTRESS. NO PHY. MODS PER PG&E RESOL. SHEET 821122. ERROR CLASS C.

965	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		RHR SUPT. 55S-128V LOC.LINE 279,AUX.BLDG.

COMMENT: SPRING HANGER 55S/128V IS SHOWN ON PG&E RHR ISO 446542 REV.10 TO BE LOCATED 7 FT. 10 3/4 IN. FROM ELBOW BELOW EL. 100 FT. RLCA FIELD INSPECTION LOCATED SUPPORT 8 FT. 10 IN. FROM ELBOW.

965	820129	FID	1	820510	RLCA	OIR	RLCA	RDF		RHR SUPT. 55S-128V LOC.LINE 279,AUX.BLDG.

COMMENT: SPRING HANGER 55S/128V IS SHOWN ON PG&E ISO 446542 REV.10, TO BE LOCATED 7 FT. 10 3/4 IN. FROM ELBOW BELOW EL. 100 FT. RLCA FIELD INSPECTION SHOWED SUPPORT TO BE 8 FT. 10 IN. FROM ELBOW. RLCA NEEDS DEADWEIGHT DESIGN ANALYSIS.

965	820129	FID	2	820519	RLCA	PPRR/DEV	TES	RDF		RHR SUPT. 55S-128V LOC.LINE 279,AUX.BLDG.

COMMENT: PG&E LOAD BALANCES 85A PART 4 I & II SHOWS 55S/128V TO BE LOCATED 8 FT. 5 IN. FROM ELBOW. RLCA SHOWS DIMENSION AS 8 FT. 10 IN. WITHIN THE 79-14 TOLERANCES.

965	820129	FID	3	820607	TES	PRR/DEV	PG&E	RDF		RHR SUPT. 55S-128V LOC.LINE 279,AUX.BLDG.

COMMENT: PG&E PIPING ISO 446542, REV.10 ; PG&E PIPING ANALYSIS 85A, PART 4, I & II. INFORMATION ON ISO INCORRECT. FIELD AGREES WITH PG&E ANALYSIS WITHIN 79-14 TOLERANCES.

965	820129	FID	4	820619	TES	CR	NONE	RDF	NO	RHR SUPT. 55S-128V LOC.LINE 279,AUX.BLDG.

COMMENT: SPRING 55S/128V ON RHR ISO 446542 R10 IS LOCATED 7 FT. 10 3/4 IN. FROM ELBOW. PER FIELD INSPECTION, 8 FT. 10 IN. FROM ELBOW. PER PG&E LOAD BALANCE 85A PART 4 I & II, 8 FT. 5 IN. FROM ELBOW. FIELD AGREES WITH ANALYSIS WITHIN 79-14 TOLERANCES. DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHT. 820611.

966	820129	FID	0	820129	RLCA	OIR	RLCA	RDF		RHR SUPT.14-33SL LOC.LINE 279,AUX. BLDG.

COMMENT: SUPPORT 14/33SL SHOWN ON PG&E RHR ISO 446542, REV.10,TO BE 7 FT. 10 3/4 IN. FROM ELBOW. RLCA FIELD INSPECTION SHOWED SUPPORT TO BE 4 FT. 5 IN. FROM ELBOW.

966	820129	FID	1	820309	RLCA	PPRR/DEV	TES	RDF		RHR SUPT.14-33SL LOC.LINE 279,AUX. BLDG.

COMMENT: PG&E PIPING ANALYSIS 8-34 SHOWS SUPPORT 4 FT. 11 1/2 IN. FROM ELBOW. RLCA SHOWS 4 FT. 5 IN.

966	820129	FID	2	820417	TES	PRR/DEV	PG&E	RDF		RHR SUPT.14-33SL LOC.LINE 279,AUX. BLDG.

COMMENT: PG&E PIPING ISO 446542, REV.10 ; PG&E PIPING ANALYSIS 8-34 DATED 7/1/80. INFORMATION ON ISO INCORRECT. FIELD AGREES WITH PG&E ANALYSIS WITHIN 79-14 TOLERANCES.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
966	820129	FID	3	820524	TES	CR	NONE	RDF	NO	RHR SUPT.14-33SL LOC.LINE 279,AUX. BLDG.

COMMENT: SUPPORT 14/33SL IS SHOWN ON RHR ISO 446542 REV.10 TO BE LOCATED 7 FT. 10 3/4 IN. FROM THE ELBOW. RLCA FIELD INSPECTION SHOWED THIS SUPPORT TO BE LOCATED 4 FT. 5 IN. FROM THE ELBOW. DESIGN ANALYSIS 8-34 (800701) SHOWS SUPPORT TO BE 4 FEET 11 1/2 IN. FROM THE ELBOW, THIS IS WITHIN 79-14 TOLERANCES. DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820519.

967	820130	SID	0	820130	RLCA	OIR	RLCA	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: SOME MAX ABSOLUTE ACCELERATIONS IN TABLE I-53 OF THE HOSGRI REPORT DIFFER FROM THOSE OF MAY 79 BLUME REPORT.

967	820130	SID	1	820322	RLCA	PPRR/OIP	TES	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: THE EFFECT OF THIS ITEM ON THE VARIOUS QUALIFICATIONS OF PIPING & EQUIPMENT IS TO BE ADDRESSED BY PG&E. RLCA HAS RECOMMENDED THAT PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.

967	820130	SID	2	820417	TES	PRR/OIP	PG&E	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: ITR-1, SECTION 3.9.4, PG&E TO ASSEMBLE SPECTRA AND DETERMINE EFFECT ON VARIOUS QUALIFICATIONS.

967	820130	SID	3	820903	TES	OIR	RLCA	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: ITR-1, 3.9.4, PG&E TO ASSEMBLE SPECTRA AND DETERMINE EFFECT ON VARIOUS QUALIFICATIONS. BASED ON PG&E INTERNAL TECHNICAL PROGRAM PRESENTED AUG. 6 & SEPT. 1, 1982, THIS FILE IS REOPENED. TES & RLCA ARE TO CONSIDER COMBINING THIS FILE INTO EOI 1022 WHICH ALSO PERTAINS TO THE INTAKE STRUCTURE.

967	820130	SID	4	820907	RLCA	PPRR/CI	TES	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: ITR-1, SECT. 3.9.4, PG&E IS TO ASSEMBLE SPECTRA & DETERMINE EFFECT ON VARIOUS QUALIFICATIONS OF EQUIPMENT & PIPING. EOI 967 IS TO BE COMBINED INTO 1022 WHICH IS RECOMMENDED AS AN ER/AB.

967	820130	SID	5	820910	TES	PRR/CI	TES	RDC		INTAKE STRUCTURE ACCELERATIONS

COMMENT: DELETE FROM ITR-1, THIS FILE COMBINED INTO EOI 1022 BASED ON PG&E ITP WHICH INCLUDES REVIEW AND/OR REANALYSIS OF INTAKE STRUCTURE.

967	820130	SID	6	820910	TES	CR	NONE	RDC	NO	INTAKE STRUCTURE ACCELERATIONS

COMMENT: SOME MAX ACCELERATIONS IN HOSGRI REPORT DIFFER FROM THOSE IN MAY 79 BLUME REPORT. THIS FILE WAS COMBINED INTO 1022 (ER/AB) BECAUSE PG&E IS REVIEWING OR REANALYZING INTAKE STRUCTURE IN ITP.

968	820130	QAR	0	820130	RLCA	OIR	TES	MAR		HARDING LAWSON ASSOC. QA FINDING

COMMENT: HLA WAS NOT REQUIRED BY PG&E TO IMPLEMENT A FORMAL Q.A PROGRAM FOR THEIR ACTIVITIES PRIOR TO 780410.

968	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		HARDING LAWSON ASSOC. QA FINDING

COMMENT: RECOMMENDS ADDITIONAL ENGINEERING VERIFICATION.

968	820130	QAR	2	820524	TES	CR	NONE	MAR	NO	HARDING LAWSON ASSOC. QA FINDING

COMMENT: HLA WAS NOT REQUIRED BY PG&E TO IMPLEMENT A FORMAL Q.A. PROGRAM FOR THEIR ACTIVITIES PRIOR TO 780410. REPLACED BY EOI 3000. CLOSED ITEM.

969	820130	QAR	0	820130	RLCA	OIR	TES	MAR		HARDING LAWSON ASSOC. QA FINDING

COMMENT: HLA Q.A PROGRAM AND OPERATING PROCEDURES APPLICABLE TO ACTIVITIES PERFORMED PRIOR TO 6/78 DID NOT PRESCRIBE ADEQUATE CONTROLS TO COMPLY WITH APPLICABLE CRITERIA REQUIREMENTS OF 10CFR50, APPENDIX B.

969	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		HARDING LAWSON ASSOC. QA FINDING

COMMENT: RECOMMENDS ADDITIONAL ENGINEERING VERIFICATION.

969	820130	QAR	2	820524	TES	CR	NONE	MAR	NO	HARDING LAWSON ASSOC. QA FINDING

COMMENT: HLA Q.A PROGRAM AND OPERATING PROCEDURES APPLICABLE TO ACTIVITIES PERORMED PRIOR TO 6/78 DID NOT PRESCRIBE ADEQUATE CONTROLS TO COMPLY WITH APPLICABLE CRITERIA REQUIREMENTS OF 10CFR50, APPENDIX B. REPLACED BY EOI 3000. CLOSED ITEM.

970	820130	QAR	0	820130	RLCA	OIR	TES	MAR		HARDING LAWSON ASSOC. QA FINDING

COMMENT: INSUFFICIENT EVIDENCE AVAILABLE AT HLA TO ESTABLISH THAT A CONTROLLED SYSTEM HAS IN EFFECT, COMPARABLE TO REQUIREMENTS OF 10CFR50, APPENDIX B.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
970	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		HARDING LAWSON ASSOC. QA FINDING
COMMENT: RECOMMENDS ADDITIONAL ENGINEERING VERIFICATION.										
970	820130	QAR	2	820524	TES	CR	NONE	MAR	NO	HARDING LAWSON ASSOC. QA FINDING
COMMENT: INSUFFICIENT EVIDENCE AVAILABLE AT HLA TO ESTABLISH THAT A CONTROLLED SYSTEM WAS IN EFFECT, COMPARABLE TO REQUIREMENTS OF 10CFR50, APPENDIX B. REPLACED BY EOI 3000. CLOSED ITEM.										
971	820130	QAR	0	820130	RLCA	OIR	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: BACKUP DOCUMENTATION, NEEDED TO VERIFY THAT EDS FOLLOWED THE 'DESIGN REVIEW CRITERIA' IN PERFORMANCE OF THEIR 7/78 DESIGN REVIEW FOR PG&E, COULD NOT BE LOCATED. EVIDENCE WAS FOUND THAT EDS DID COMPLY WITH THE CRITERIA.										
971	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
971	820130	QAR	2	820409	TES	CR	NONE	MAR	NO	EDS NUCLEAR QA OBSERVATION
COMMENT: BACKUP DOCUMENTATION, NEEDED TO VERIFY THAT EDS FOLLOWED THE 'DESIGN REVIEW CRITERIA' IN PERFORMANCE OF THEIR 7/78 DESIGN REVIEW FOR PG&E, COULD NOT BE LOCATED. EVIDENCE WAS FOUND THAT EDS DID COMPLY WITH THE CRITERIA. NO 3000 SERIES EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
972	820130	QAR	0	820130	RLCA	OIR	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: IN EDS CALCULATIONS, REFERENCES WERE NOT CONSISTENTLY SPECIFIED.										
972	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
972	820130	QAR	2	820409	TES	CR	NONE	MAR	NO	EDS NUCLEAR QA OBSERVATION
COMMENT: IN EDS CALCULATIONS, REFERENCES WERE NOT CONSISTENTLY SPECIFIED. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
973	820130	QAR	0	820130	RLCA	OIR	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO EVIDENCE OF QA MGR. CONCURRENCE ON RESOLUTION OF DISCREPANCIES, AS REQUIRED BY EDS QAP 3.7. SIGN-OFFS WERE NOT COMPLETE.										
973	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
973	820130	QAR	2	820409	TES	CR	NONE	MAR	NO	EDS NUCLEAR QA OBSERVATION
COMMENT: NO EVIDENCE OF QA MGR. CONCURRENCE ON RESOLUTION OF DISCREPANCIES, AS REQUIRED BY EDS QAP 3.7. SIGN-OFFS WERE NOT COMPLETE. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
974	820130	QAR	0	820130	RLCA	OIR	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO MEANS OF DOCUMENTING PROJECT PERSONNEL FAMILIARIZATION WITH REQUIRED INTERFACE INSTRUCTIONS.										
974	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
974	820130	QAR	2	820409	TES	CR	NONE	MAR	NO	EDS NUCLEAR QA OBSERVATION
COMMENT: NO MEANS OF DOCUMENTING PROJECT PERSONNEL FAMILIARIZATION WITH REQUIRED INTERFACE INSTRUCTIONS. NO SERIES 3000 EOI FILE ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
975	820130	QAR	0	820130	RLCA	OIR	TES	MAR		EDS NUCLEAR QA OBSERVATION
COMMENT: USE OF MEMORANDA IN LIEU OF TECHNICAL INSTRUCTIONS WAS NOT IN COMPLIANCE WITH QA MANUAL.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
975	820130	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EDS NUCLEAR QA OBSERVATION

COMMENT: NO CORRECTIVE ACTION REQUIRED.

975	820130	QAR	2	820409	TES	CR	NONE	MAR	NO	EDS NUCLEAR QA OBSERVATION

COMMENT: USE OF MEMORANDA IN LIEU OF TECHNICAL INSTRUCTIONS WAS NOT IN COMPLIANCE WITH QA MANUAL. NO SERIES 3000 EOI WAS ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.

976	820206	SID	0	820206	RLCA	OIR	RLCA	RDC		CONT. BLDG. - EXTERIOR SPECTRA.

COMMENT: EXTERIOR CONTAINMENT SPECTRA WERE SUPERSEDED BY THE URS/BLUME REPORT ISSUED ON JUNE 5, 1977. HOWEVER, NO TRANSMITTAL TO WESTINGHOUSE OF THIS SPECTRA COULD BE LOCATED IN THE PG&E FILES.

976	820206	SID	1	820322	RLCA	PPRR/CI	TES	RDC		CONT. BLDG. - EXTERIOR SPECTRA.

COMMENT: CURRENT PROGRAM REQUIRES THAT RLCA VERIFY THE TRANSMITTAL OF SPECTRA FROM PG&E TO WESTINGHOUSE. TES REVIEWED ' PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM - NOV 12, 1982', SECTION 3.2.3.

976	820206	SID	2	820417	TES	CR	NONE	RDC	NO	CONT. BLDG. - EXTERIOR SPECTRA.

COMMENT: EXTERIOR CONTAINMENT SPECTRA WERE SUPERSEDED BY THE URS/BLUME REPORT ISSUED ON JUNE 5, 1977. HOWEVER, NO TRANSMITTAL TO WESTINGHOUSE OF THIS SPECTRA COULD BE LOCATED IN THE PG&E FILES. THE CURRECT PROGRAM REQUIRES THAT RLCA VERIFY THE TRANSMITTAL OF SPECTRA FROM PG&E TO WESTINGHOUSE.

977	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		ANNULUS AREA REEVALUATION

COMMENT: ANNULUS REVIEW BY PG&E. PG&E IS EVALUATING THE STRUCTURAL ADEQUACY OF THE ANNULUS.

977	820206	OD	1	820430	RLCA	PPRR/OIP	TES	RDC		ANNULUS AREA REEVALUATION

COMMENT: RLCA HAS RECOMMENDED THAT PG&E EVALUATE THE ANNULUS TO DETERMINE STRUCTURAL ADEQUACY AND EFFECT ON SEISMIC QUALIFICATION OF EQUIPMENT AND PIPING.

977	820206	OD	2	820511	TES	PRR/OIP	PG&E	RDC		ANNULUS AREA REEVALUATION

COMMENT: ITR-1, SECT. 3.1.4, PG&E IS TO EVALUATE ANNULUS FOR STRUCTURAL INTEGRITY AND VARIOUS QUALIFICATIONS ON EQUIPMENT AND PIPING. TES AND RLCA WILL REVIEW BROOKHAVEN REPORT ON THE ANNULUS STRUCTURE.

977	820206	OD	3	820903	TES	OIR	RLCA	RDC		ANNULUS AREA REEVALUATION

COMMENT: ITR-1, SECT. 3.1.4, BASED ON PG&E INTERNAL TECHNICAL PROGRAM PRESENTED ON AUG. 6 AND SEPT. 1, 1982,THIS FILE IS REOPENED TES AND RLCA WILL CONSIDER COMBINING THIS FILE INTO 1014.

977	820206	OD	4	820907	RLCA	PPRR/CI	TES	RDC		ANNULUS AREA REEVALUATION

COMMENT: ITR-1, SECT. 3.1.4, BASED ON PG&E INTERNAL TECHNICAL PROGRAM PRESENTED ON AUG. 6 AND SEPT. 1, 1982,THIS FILE IS REOPENED RLCA RECOMMENDS THIS FILE BE COMBINED IN EOI 1014.

977	820206	OD	5	820910	TES	PRR/CI	TES	RDC		ANNULUS AREA REEVALUATION

COMMENT: DELETE FROM ITR-1 ; THIS FILE IS COMBINED INTO EOI 1014, WHICH ALSO PERTAINS TO THE CONTAINMENT STRUCTURE.

977	820206	OD	6	820910	TES	CR	NONE	RDC	NO	ANNULUS AREA REEVALUATION

COMMENT: PG&E IS EVALUATING THE STRUCTURAL ADEQUACY OF THE ANNULUS AND EFFECT ON SEISMIC QUALIFICATION OF EQUIPMENT AND PIPING. BASED ON PG&E ITP PRESENTED ON AUG. 6 AND SEPT. 1, 1982, PG&E IS DOING COMPLETE EVALUATION. THIS FILE IS COMBINED INTO 1014.

978	820206	SID	0	820206	RLCA	PER/A	RLCA	PPR		REGEN. HEAT EXCH.SPECT. CONT. INTERIOR STRUCTURE.

COMMENT: THE W REPORT STATES 2/3 OF FILTERED HORIZ. SPECTRUM USED FOR VERT. DIRECTION; HOSGRI REPORT STATES 2/3 OF UNFILTERED HORIZ. SPECTRUM TO BE USED AS RESPONSE SPECTRA. VERTICAL SPECTRA USED BY WESTINGHOUSE IS IN ERROR.

978	820206	SID	1	820510	RLCA	PER/C	TES	PPR		REGEN. HEAT EXCH.SPECT. CONT. INTERIOR STRUCTURE.

COMMENT: ITR-1, 3.9.3. ANALYSIS REVISED TO REFLECT CORRECT VERTICAL SPECTRA ACCELERATION.ALL STRESSES BELOW ALLOWABLE.

978	820206	SID	2	820607	TES	ER/C	PG&E	PPR		REGEN. HEAT EXCH.SPECT. CONT. INTERIOR STRUCTURE.

COMMENT: ITR-1, 3.9.3. W ANALYSIS REVISED TO REFLECT CORRECT VERTICAL SPECTRA. ALL STRESSES BELOW ALLOWABLES. TES AUDIT OF W ON 820507 CONFIRMED THIS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
978	820206	SID	3	820621	TES	CR	NONE	PPR	NO	RESEN. HEAT EXCH.SPECT. CONT. INTERIOR STRUCTURE.

COMMENT: 2/3 OF FILTERED HORIZ. SPECTRUM USED FOR VERT. DIRECT. HOSGRI STATES 2/3 OF UNFILTERED HORIZ. SPECTRUM TO BE USED. W ANALYSIS REVISED TO REFLECT CORRECT VERTICAL SPECTRA. ALL STRESSES BELOW ALLOWABLES. TES AUDIT OF W ON 820507 CONF. THIS. NO PHYS. MODS. PER PG&E RESOL. & COMPLETION SHT. 820611.

979	820206	ICD	0	820206	RLCA	OIR	RLCA	RDC		CONT. STRUCTURE EQUIPMENT REVIEWED.

COMMENT: EQUIPMENT IN THE CONTAINMENT STRUCTURE WAS NOT REVIEWED IN THE PRELIMINARY REPORT,SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM, 811112, BUT WILL BE DONE IN THE VERIFICATON PROGRAM.

979	820206	ICD	1	820309	RLCA	PPRR/CI	TES	RDC		CONT. STRUCTURE EQUIPMENT REVIEWED.

COMMENT: THE IDVP PHASE I SAMPLE REPRESENTS A CROSS SECTION OF ALL THE EQUIPMENT.

979	820206	ICD	2	820417	TES	CR	NONE	RDC	NO	CONT. STRUCTURE EQUIPMENT REVIEWED.

COMMENT: EQUIPMENT IN THE CONTAINMENT STRUCTURE WAS NOT REVIEWED IN THE PRELIMINARY REPORT,SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM, 811112, BUT WILL BE DONE IN THE VERIFICATON PROGRAM. THE PHASE I SAMPLE REPRESENTS A CROSS SECTION OF ALL THE EQUIPMENT.

980	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		ASWP COMPARTMENTS QUAL. DOCUM. INTAKE STRUCTURE.

COMMENT: THE DESIGN REVIEW FOR THE AUXILIARY SALTWATER PUMP COMPARTMENTS WAS DATED SEPTEMBER 1976 (LOG 7). IT WAS LATER QUALIFIED FOR HOSGRI AS A PART OF THE INTAKE STRUCTURE. HOWEVER, NO FORMAL DOCUMENTATION HAS BEEN FOUND TO DATE.

980	820206	OD	1	820305	RLCA	PPRR/CI	TES	RDC		ASWP COMPARTMENTS QUAL. DOCUM. INTAKE STRUCTURE.

COMMENT: PG&E INTAKE STRUCTURE DESIGN REVIEW - 5/2/79. THIS DESIGN REVIEW ADDRESSES THE AUXILIARY SALTWATER PUMP COMPARTMENTS. TES REVIEWED 3.3.7.4.1 OF 'PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM - NOV.12, 1981".

980	820206	OD	2	820417	TES	CR	NONE	RDC	NO	ASWP COMPARTMENTS QUAL. DOCUM. INTAKE STRUCTURE.

COMMENT: THE DESIGN REVIEW FOR THE AUXILIARY SALTWATER PUMP COMPARTMENTS WAS DATED SEPTEMBER 1976 (LOG 7). IT WAS LATER QUALIFIED FOR HOSGRI AS A PART OF THE INTAKE STRUCTURE. HOWEVER, NO FORMAL DOCUMENTATION HAS BEEN FOUND TO DATE.EOI 1022 DESIGN REVIEW ADDRESSES THE AUX. SALTWATER PUMP COMPARTMENTS.

981	820206	ICD	0	820206	RLCA	OIR	RLCA	RDC		BURIED PIPELINE. INTAKE STRU.TO TURBINE BUILDING.

COMMENT: THE BURIED PIPELINES CONNECTING THE INTAKE STRUCTURE TO THE TURBINE BUILDING WERE QUALIFIED BY PG&E WITH INPUT FROM URS/BLUME. PG&E'S QUALIFICATION WORK WAS INDEPENDENTLY CHECKED BY HARDING-LAWSON ASSOCIATES, USING INPUT FROM URS/BLUME (SEE LOG 7).THE INPUT USED IN THE ABOVE TWO STUDIES WILL BE VERIFIED IN THE OVERALL VERIFICATION PROGRAM.

981	820206	ICD	1	820430	RLCA	PPRR/CI	TES	RDC		BURIED PIPELINE. INTAKE STRU.TO TURBINE BUILDING.

COMMENT: THE PG&E ANALYSIS INPUTS HAVE BEEN CHECKED AND THE RLA ANALYSIS IS INCLUDED IN THE PROPOSED PROGRAM.

981	820206	ICD	2	820511	TES	PRR/CI	TES	RDC		BURIED PIPELINE. INTAKE STRU.TO TURBINE BUILDING.

COMMENT: THE PG&E ANALYSIS INPUTS HAVE BEEN CHECKED AND THE RLA ANALYSIS IS INCLUDED IN THE PROPOSED PROGRAM. THIS ITEM TO BE TRACKED IN SOILS ITR.

981	820206	ICD	3	820511	TES	CR	NONE	RDC	NO	BURIED PIPELINE. INTAKE STRU.TO TURBINE BUILDING.

COMMENT: THE BURIED PIPELINES CONNECTING THE INTAKE STRUCT. TO THE TURBINE BLDG. WERE QUALIFIED BY PG&E WITH INPUT FROM URS/BLUME PG&E'S QUALIFICATION WORK WAS INDEPENDENTLY CHECKED BY HARDING-LAWSON ASSOCIATES, USING INPUT FROM URS/BLUME.(SEE LOG 7) THE INPUT USED IN ABOVE TWO STUDIES WILL BE VERIF.IN THE McNEILL STUDY.

982	820206	DMD	0	820206	RLCA	OIR	RLCA	RDC		TURB. BLDG. BLUME TRANSMITTALS

COMMENT: THE DETAIL TRANSMITTALS THEMSELVES HAVE NOT BEEN REVIEWED. THIS WILL BE A PART OF THE OVERALL VERIFICATION WORK.

982	820206	DMD	1	820618	RLCA	PPRR/OIP	TES	RDC		TURB BLDG BLUME TRANSMITTALS

COMMENT: P105-4-842-005 PG&E'S 15TH SEMIMONTHLY-OI 24. BLUME INTERNAL REVIEW HAS IDENTIFIED SEVERAL QUESTIONS RE.TURBINE BLG. ANALYSIS. QUESTIONS RELATE TO MATH MODELING AND COMPUTER ANALYSIS OF BUILDING AND TO EFFECT OF SOME OF HOSGRI AND POST TMI MODS ON BLG.RESPONSE. RLCA TO REVIEW FUTURE PG&E ACTION.

982	820206	DMD	2	820701	TES	PRR/OIP	PG&E	RDC		TURB BLDG BLUME TRANSMITTALS

COMMENT: ITR-1, 3.1.4 AND PG&E ITEM 24 MAY INDICATE NEED FOR REANALYSIS.
TES REVIEWED SECTION 3.3.3 OF 'PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM - NOV.12, 1981". RLCA WILL ESTABLISH ACTION REQUIRED ON THIS FILE AFTER PG&E ADDRESSES THEIR OPEN ITEM 24.

982	820206	DMD	3	820720	TES	OIR	RLCA	RDC		TURB BLDG BLUME TRANSMITTALS

COMMENT: ITR-1,3.1.4 PREL.REPORT,SEISMIC REVERIF.REPORT,SEISMIC REVERIF.PROGRAM,821112,SECT.3.3.3 TURBINE BLG.P105-4-842-005. PG&E'S 15TH SEMIMONTHLY REPORT-OI24. QUESTIONS RE:TRANSMITTALS & MODELING,RESP., BASED ON PG&E ITP PRESENTATION (JULY 16, 1982) OF TURBINE BLG.REEVAL.(AS-BUILT VS. ANALYSIS), TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
982	820206	DMD	4	820721	RLCA	PPRR/CI	TES	RDC		TURB BLDG BLUME TRANSMITTALS

COMMENT: ITR-1, 3.1.4 THIS EOI TO BE COMBINED WITH EOI 1026 AS AN ERROR A OR B.

982	820206	DMD	5	820723	TES	PRR/CI	TES	RDC		TURB BLDG BLUME TRANSMITTALS

COMMENT: DELETE FROM ITR-1, 3.1.4 THIS EOI IS COMBINED WITH EOI 1026 AS AN ERROR A OR B.

982	820206	DMD	6	820723	TES	CR	NONE	RDC	NO	TURB BLDG BLUME TRANSMITTALS

COMMENT: SECTION 3.3.3 OF NOV. 12, 1981 PRELIMINARY SEISMIC REVERIFICATION REPORT STATES THAT DETAILED TRANSMITTALS WERE NOT REVIEWED BY RLCA, BUT SINCE THE TURBINE BUILDING IS BEING EVALUATED AS PART OF THE PG&E ITP, THIS EOI IS COMBINED INTO 1026 (ER/AB).

983	820206	SID	0	820206	RLCA	PER/A	TES	RCW		RACEWAY SUPPORT SPECTRA

COMMENT: NINE OF TWENTY RACEWAY SUPPORT SEISMIC CALCULATIONS DONE WITH INAPPLICABLE SPECTRA.

983	820206	SID	1	820421	TES	ER/A	PG&E	RCW		RACEWAY SUPPORT SPECTRA

COMMENT: ITR-1, 3.7.4 NINE OF TWENTY SUPPORT: CALCULATION DONE WITH INAPPLICABLE SPECTRA.

983	820206	SID	2	820910	TES	ER/A	PG&E	RCW	YES	RACEWAY SUPPORT REANALYSIS

COMMENT: NINE OF TWENTY RACEWAY SUPPORT SEISMIC CALCULATIONS DONE WITH INAPPLICABLE SPECTRA.
REV 2 ISSUED TO COMBINED EOI FILES 910 AND 930 INTO THIS ONE FILE AS A CLASS 'A' ERROR.

983	0		3	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

983	0		4	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

983	0		5	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

983	0		6	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

984	820206	DMD	0	820206	RLCA	OIR	RLCA	RDC		TURB BLDG INTERFACE PROCEDURES

COMMENT: THE PG&E DESIGN REVIEW IS PRESENTED IN THE REPORT 'HOSGRI DESIGN VERIFICATION - TURBINE BUILDING',FEBRUARY,1980 (LOG 7). SINCE THE DESIGN REVIEW DID NOT VERIFY THE INTERFACE PROCEDURES BETWEEN URS/BLUME, PG&E AND THE FIELD (FIG 4-10-2, URS/BLUME REPORT ON DESIGN REVIEW, LOG 7), THESE WILL BE INVESTIGATED .

984	820206	DMD	1	820618	RLCA	PPRR/OIP	TES	RDC		TURB BLDG INTERFACE PROCEDURES

COMMENT: BESIDES REV.0 CONCERN, THE BLUME INTERNAL REVIEW IDENTIFIED PROBLEMS WITH THE ANALYTICAL MODEL.

984	820206	DMD	2	820701	TES	PRR/OIP	PG&E	RDC		TURB BLDG INTERFACE PROCEDURES

COMMENT: ITR-1, 3.1.4 AND PG&E ITEM 24 MAY INDICATE NEED FOR REANALYSIS. PREVIOUS PG&E DESIGN REVIEW DID NOT VERIFY PG&E/BLUME FIELD INTERFACE; THIS STILL REQUIRES VERIFICATION IF NO REANALYSIS IS DONE. TES REVIEWED RLCA NOV. 12 1981. PRELIMINARY REPORT.

984	820206	DMD	3	820720	TES	OIR	RLCA	RDC		TURB BLDG INTERFACE PROCEDURES

COMMENT: ITR, 3.1.4 BASED ON PG&E INTERNAL TECHNICAL PROGRAM PRESENTED ON JULY 14 TO 16, 1982, PG&E MAY REANALYZE TURBINE BUILDING. TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

984	820206	DMD	4	820721	RLCA	PPRR/CI	TES	RDC		TURB BLDG INTERFACE PROCEDURES

COMMENT: ITR-1, 3.1.4 RLCA RECOMMENDS COMBINING THIS FILE WITH EOI 1026.

	REV. 0		LATEST REV.			ACTION	PG&E			
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
984	820206	DMD	5	820723	TES	PRR/CI	TES	RDC		TURB BLDG INTERFACE PROCEDURES
COMMENT: DELETE FROM ITR-1, 3.1.4 ; THIS FILE IS COMBINED INTO EOI 1026, WHICH ALSO PERTAINS TO THE TURBINE BUILDING. EOI 1026 ISSUED AS ER/AB.										
984	820206	DMD	6	820723	TES	CR	NONE	RDC	NO	TURB BLDG INTERFACE PROCEDURES
COMMENT: 'HOSGRI DESIGN VERIFICATION - TURBINE BUILDING',FEB 1980 (LOG 7) DID NOT VERIFY PG&E/BLUME/FIELD INTERFACE PROCEDURES. BECAUSE OF PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THIS FILE IS COMBINED INTO EOI 1026 (ER/AB).										
985	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		AUX BLDG WEIGHTS
COMMENT: 1977 TELECON RECORDS INDICATED DISCREPANCIES IN DDE MODEL WEIGHTS BETWEEN PG&E AND URS/BLUME. THERE WAS A 35% DISCREPANCY AT EL. 140'.										
985	820206	OD	1	820227	RLCA	PPRR/CI	TES	RDC		AUX BLDG WEIGHTS
COMMENT: THE RLCA WEIGHT FOR THE AUXILIARY BUILDING (INDEPENDENTLY CALCULATED) ELEVATION 140 FEET IS WITHIN 9% OF THE NUMBER USED BY URS/BLUME. TES REVIEWED ' PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM NOV 12, 1981'.										
985	820206	OD	2	820417	TES	CR	NONE	RDC	NO	AUX BLDG WEIGHTS
COMMENT: THE RLCA WEIGHT FOR THE AUXILIARY BUILDING (INDEPENDENTLY CALCULATED) ELEVATION 140 FEET IS WITHIN 9% OF THE NUMBER USED BY URS/BLUME.										
986	820206	SID	0	820206	RLCA	PPRR/OIP	RLCA	RDC		CONTROL RM. SPECTRA
COMMENT: SINCE THE FINAL VERTICAL CONTROL ROOM SPECTRA ARE HIGHER THAN THE PRELIMINARY SPECTRA, A DETAILED REVIEW OF EQUIPMENT QUALIFICATION WILL BE NECESSARY TO ENSURE THAT THE EQUIPMENT WAS CONSERVATIVELY QUALIFIED.										
986	820206	SID	1	820322	RLCA	PPRR/OIP	TES	RDC		CONTROL RM. SPECTRA
COMMENT: RLCA HAS RECOMMENDED THAT PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA. THE EFFECT OF THIS ITEM ON THE VARIOUS QUALIFICATIONS WILL BE ADDRESSED BY PG&E.										
986	820206	SID	2	820511	TES	PRR/OIP	PG&E	RDC		CONTROL RM. SPECTRA
COMMENT: TES REVIEWED ' PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM NOV 12, 1981' SECTION 3.3.4.2.										
986	820206	SID	3	820719	TES	OIR	RLCA	RDC		CONTROL RM. SPECTRA
COMMENT: SINCE FINAL VERTICAL CONT.RM.SPECTRA HIGHER THAN PREL.,DETAILED REVIEW OF EQUIP.QUALIFICATION NECCESSARY IN OVERALL REVERIF.PROGRAM TO ENSURE EQUIP WAS CONS. QUALIFIED. BASED ON PG&E PRESENTATION (JULY 14-16, 1982) OF ITP IN WHICH AUX BLG.IS BEING COMPLETELY REANALYZED, TES AND RLCA TO CONSIDER AND RESOLVE THIS FILE.										
986	820206	SID	4	820721	RLCA	PPRR/CI	TES	RDC		CONTROL RM. SPECTRA
COMMENT: RECOMMEND THIS EOI BE COMBINED WITH EOI 1097 AS AN ERROR CLASS A OR B.										
986	820206	SID	5	820722	TES	PRR/CI	TES	RDC		CONTROL RM. SPECTRA
COMMENT: SINCE THE FINAL VERTICAL CONTROL ROOM SPECTRA ARE HIGHER THAN THE PRELIMINARY SPECTRA, A DETAILED REVIEW OF EQUIPMENT QUAL. WILL BE NECESSARY TO ENSURE THAT THE EQUIPMENT WAS CONSERVATIVELY QUALIFIED. THIS EOI TO BE COMBINED WITH EOI 1097 AS AN ERROR CLASS A OR B.										
986	820206	SID	6	820722	TES	CR	NONE	RDC	NO	CONTROL RM. SPECTRA
COMMENT: SINCE THE FINAL VERT. CONTROL ROOM SPECTRA ARE HIGHER THAN THE PREL. SPECTRA, A DETAILED REVIEW OF EQUIP. QUAL. WILL BE NECESSARY TO ENSURE THAT THE EQUIP. WAS CONSERVATIVELY QUALIFIED. THIS EOI IS COMBINED WITH EOI 1097 AS AN ERROR CLASS A OR B.										
987	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		AUX BLDG QUAL DETAILED REVIEW
COMMENT: NO EFFORT HAS BEEN SPENT , BECAUSE OF TIME CONSTRAINTS, TO SPOTCHECK THE BUILDING QUALIFICATION DETAILS. BECAUSE OF THE REPORTED CONTROVERSY OF WEIGHTS IN THE DDE MODEL (EOI 985), A DETAILED REVIEW OF THE SEISMIC ANALYSIS OF THE AUXILIARY BUILDING AND ITS QUALIFICATION SHOULD BE PERFORMED. SEE PREL. VERIF. RPT. 11/12/81, SEC. 3.3.4.										
987	820206	OD	1	820309	RLCA	PPRR/CI	TES	RDC		AUX BLDG QUAL DETAILED REVIEW
COMMENT: THIS ITEM IS BEING ADDRESSED IN THE CURRENT PROGRAM.										
987	820206	OD	2	820417	TES	CR	NONE	RDC	NO	AUX BLDG QUAL DETAILED REVIEW
COMMENT: A DETAILED REVIEW OF THE SEISMIC ANAL. OF THE AUX. BLDG. AND ITS QUAL. THIS ITEM IS BEING ADDRESSED IN THE CURRENT PROGRAM.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
988	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: CHECKS ARE REQUIRED TO COMPARE THE AS-BUILT INTAKE STRUCTURE CRANE DRAWINGS TO THOSE USED IN THE DESIGN ANALYSIS. SEE PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM - NOV. 12, 1981.

988	820206	OD	1	820628	RLCA	PPRR/OIP	TES	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: RLCA WILL REVIEW THIS PROGRAM.

988	820206	OD	2	820701	TES	PRR/OIP	PG&E	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: RLCA IS TO REVIEW THIS ITEM TO DETERMINE EFFECT ON INTAKE STRUCTURE CRANE. TES REVIEWED APPLICABLE SECTION OF 'PRELIMI-NARY REPORT, SEISMIC RLVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM'

989	820206	OD	3	820903	TES	OIR	RLCA	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: BASE ON PG&E PRESENTATIONS ON AUG. 6 AND SEPT. 1, 1982, THE INTAKE STRUCTURE IS BEING REVIEWED OR REANALYZED IN THE PG&E ITP. THEREFORE, TES AND RLCA WILL CONSIDER THIS FILE TO BE COMBINED INTO EOI 1022 WHICH IS ER/AB.

988	820206	OD	4	820907	RLCA	PPRR/CI	TES	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: THIS FILE COMBINES INTO EOI 1022 (ER/AB) WHICH ALSO PERTAINS TO THE INTAKE STRUCTURE.

988	820206	OD	5	820910	TES	PRR/CI	TES	RDC		INTAKE STRUCTURE CRANE REVIEW

COMMENT: BASED ON PG&E PRESENTATIONS ON AUG. 6 AND SEPT. 1, 1982, THIS FILE IS COMBINED INTO EOI 1022 (ER/AB) AND THIS FILE IS CLOSED BECAUSE THE INTAKE STRUCTURE IS BEING REVIEWED OR REANALYZED IN THE PG&E ITP.

988	820206	OD	6	820910	TES	CR	NONE	RDC	NO	INTAKE STRUCTURE CRANE REVIEW

COMMENT: CHECKS REQUIRED TO COMPARE AS-BUILT INTAKE STRUCTURE CRANE DWGS. TO THOSE USED IN DESIGN ANALYSIS; SEE RLCA PRELIMINARY REPORT, 11/12/81. BASED ON PG&E ITP PRESENTED ON AUG. 6 AND SEPT. 1, 1982, THIS ITEM IS COMBINED INTO EOI 1022 WHICH IS ISSUED AS ER/AB.

989	820206	DMD	0	820206	RLCA	OIR	RLCA	RDC		TURB BLDG CRANE REVIEW

COMMENT: CHECKS NEED TO BE MADE TO INSURE THAT MODIFICATIONS TO CONSTRUCTION DRAWINGS WERE PROPERLY IMPLEMENTED. THIS WILL BE ACCOMPLISHED BY COMPARING THE ' AS-BUILT ' DRAWINGS TO THOSE USED IN ANALYSIS.

989	820206	DMD	1	820628	RLCA	PPRR/OIP	TES	RDC		TURB BLDG CRANE REVIEW.

COMMENT: PG&E TO INCLUDE THIS ITEM IN THE BLUME INTERNAL REVIEW SUPJECT TO RLCA REVIEW.

989	820206	DMD	2	820701	TES	PRR/OIP	PG&E	RDC		TURB BLDG CRANE REVIEW

COMMENT: PG&E INCLUDE IN BLUME REVIEW. CONSIDER ADDING TO ITR-1. TES REVIEWED ' PRELIMINARY SEISMIC REVERIFICATION REPORT, NOV. 12, 1981'.

989	820206	DMD	3	820721	TES	OIR	RLCA	RDC		TURB BLDG CRANE REVIEW

COMMENT: BASED ON TURBINE BUILDING REVIEW BEING DONE IN THE PG&E ITP AS PRESENTED ON JULY 14 TO 16, 1932, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

989	820206	DMD	4	820721	RLCA	PPRR/CI	TES	RDC		TURB BLDG CRANE REVIEW

COMMENT: RLCA RECOMMENDS COMBINING THIS FILE WITH 1026.

989	820206	DMD	5	820723	TES	PRR/CI	TES	RDC		TURB BLDG CRANE REVIEW

COMMENT: NOT ADDED TO ITR-1. PG&E INCLUDE IN BLUME REVIEW. EOI 989 IS COMBINED WITH EOI 1026 AS AN ERROR 'A' OR 'B'.

989	820206	DMD	6	820723	TES	CR	NONE	RDC	NO	TURB BLDG CRANE REVIEW

COMMENT: PG&E INCLUDE IN BLUME REVIEW. CHECKS NEED TO BE MADE TO INSURE THAT MODS. TO CONSTRUCTION DWGS. WERE PROPERLY IMPLEMENTED. THIS WILL BE ACCOMPLISHED BY COMPARING THE ' AS-BUILT ' DWGS. TO THOSE USED IN ANAL. EOI 989 IS COMBINED WITH EOI 1026 AS AN ERROR 'A' OR 'B' BECAUSE OF PG&E ITP REVIEW OF TURBINE BLDG.

990	820206	DMD	0	820206	RLCA	OIR	RLCA	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: SOME CHECKS NEED TO BE MADE IN THE OVERALL REVERIFICATION PROGRAM TO CHECK THE APPLICABILITY OF DESIGN INFORMATION TRANSMITTED.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	ACTION STATUS	PG&E ORG	TES	MODS	SUBJECT
990	820206	DMD	1	820610	RLCA	PPRR/OIP	TES	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: IN ADDITION TO REV 0 FINDING IT IS NOTED THAT PG&E OPEN ITEM 32 INDICATES MATHEMATICAL MODELING OF FH BUILDING MAY BE DEFICIENT.

990	820206	DMD	2	820701	TES	PRR/OIP	PG&E	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: CONSIDER ADDING TO ITR-1. MAY BE REANALYSED AS PART OF PG&E ITEM 32.
IF FH BUILDING CRANE IS REANALYZED BY PG&E, RLCA CAN OMIT FURTHER CHECKS OF DESIGN INFORMATION TRANSMITTALS.
TES REVIEWED PG&E 15TH SEMIMONTHLY AND NOV. 12, 1981 PRELIMINARY REPORT.

990	820206	DMD	3	820720	TES	OIR	RLCA	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: BASED ON PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUX BUILDING AND FHB ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

990	820206	DMD	4	820721	RLCA	PPRR/CI	TES	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: RLCA RECOMMENDS COMBINING THIS EOI WITH EOI 1092 BASED ON PG&E ITP WHICH WAS PRESENTED JULY 14 TO 16, 1982.

990	820206	DMD	5	820723	TES	PRR/CI	TES	RDC		FH BLDG CRANE DESIGN INFO

COMMENT: NOT ADDED TO ITR-1. THIS EOI IS COMBINED INTO EOI 1092 (ER/A). TES/RLCA WILL REVIEW ANALYSIS OF FHB CRANE AS PART OF REVIEW OF PG&E CORRECTIVE ACTIONS.

990	820206	DMD	6	820723	TES	CR	NONE	RDC	NO	FH BLDG CRANE DESIGN INFO

COMMENT: MAY BE REANALYSED AS PART OF PG&E ITEM 32. SOME CHECKS NEED TO BE MADE IN THE OVERALL REVERIFICATION PROGRAM TO CHECK THE APPLICABILITY OF DESIGN INFORMATION TRANSMITTED. THIS EOI IS COMBINED WITH EOI 1092 AS AN ERROR CLASS 'A'. TES AND RLCA WILL FOLLOW CRANE REANALYSIS IN PG&E ITP.

991	820206	DMD	0	820206	RLCA	OIR	RLCA	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: IN THE SCOPE OF THE OVERALL VERIFICATION PROGRAM SOME CHECKS WILL BE MADE TO INSURE THAT THESE MODIFICATIONS WERE DONE

991	820206	DMD	1	820618	RLCA	PPRR/OIP	TES	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: PG&E TO PREPARE AN AS BUILT DRAWING OF THE FUEL-HANDLING BUILDING (INCLUDING THE FUEL-HANDLING BUILDING CRANE). PG&E OPEN ITEM 32 INDICATES THAT MATHEMATICAL MODELLING OF THE FHB MAY BE DEFICIENT.

991	820206	DMD	2	820701	TES	PRR/OIP	PG&E	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: RLCA IS TO REVIEW MODIFICATIONS AND FUTURE PG&E ACTION. TES REVIEWED NOV.12,1981 PRELIMINARY REPORT AND PG&E 15TH SEMIMONTHLY REPORT.

991	820206	DMD	3	820720	TES	OIR	RLCA	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUX BUILDING AND FHB ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

991	820206	DMD	4	820721	RLCA	PPRR/CI	TES	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: RLCA RECOMMENDS THAT THIS EOI BE COMBINED WITH EOI 1092

991	820206	DMD	5	820723	TES	PRR/CI	TES	RDC		FH BLDG CRANE MODIFICATIONS

COMMENT: THIS EOI IS COMBINED INTO EOI 1092 (ER/A).

991	820206	DMD	6	820723	TES	CR	NONE	RDC	NO	FH BLDG CRANE MODIFICATIONS

COMMENT: IN THE SCOPE OF THE OVERALL PROGRAM,CHECKS WERE TO BE MADE TO INSURE THAT MODS WERE COMPLETED.PG&E IS TO PREPARE AS-BUILT DWG OF FHB (INCLUDING CRANE).BECAUSE OF FHB ANALYSIS IN PG&E ITP, THIS ITEM COMBINED INTO EOI 1092 (ER/A).

992	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		OD.WATER STORAGE TANKS-DESIGN INFO.

COMMENT: THE DESIGN INFORMATION WAS FOUND TO BE TRANSMITTED INFORMALLY. SOME CHECKS ARE REQUIRED IN THE OVERALL REVERIFICATION PROGRAM TO INSURE ITS ACCURACY.

992	820206	OD	1	820628	RLCA	PPRR/OIP	TES	RDC		OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: RLCA RECOMMENDS THAT PG&E INCLUDE THIS ITEM IN BLUME INTERNAL REVIEW.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
992	820206	OD	2	820701	TES	PRR/OIP	PG&E	RDC		OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: TES REVIEWED 'PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM -NOV. 12, 1981' . AS A RESULT OF THIS OIP, RLCA WILL REVIEW BLUME INTERNAL REVIEW.

992	820206	OD	3	820823	TES	OIR	RLCA	RDC		OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: THIS FILE WILL BE RECONSIDERED BY TES AND RLCA BECAUSE OF ITS SIMILARITY WITH FILE 993. TES AND RLCA WILL CONSIDER COMBINING THIS FILE WITH 993.

992	820206	OD	4	820824	RLCA	PPRR/CI	TES	RDC		OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: RLCA RECOMMENDS COMBINING THIS FILE INTO 993 BECAUSE THESE 2 FILES ARE SIMILAR.

992	820206	OD	5	820909	TES	PRR/CI	TES	RDC		OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: THIS FILE IS COMBINED INTO 993.

992	820206	OD	6	820909	TES	CR	NONE	RDC	NO	OD WATER STORAGE TANKS-DESIGN INFO

COMMENT: REF: 'PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM - NOV. 12, 1981'. BECAUSE OF INFORMAL TRANSMITTAL OF INFO., CHECKS ARE REQUIRED TO ENSURE ACCURACY OF TRANSMITTED INFO. THIS CONCERN IS IDENTICAL TO EOI 993. IT IS COMBINED INTO 993.

993	820206	OD	0	820206	RLCA	OIR	RLCA	RDC		OD WATER STORAGE TANKS

COMMENT: CHECKS ARE NEEDED TO DETERMINE ACCURACY OF INFORMATION TRANSFERRED BETWEEN PG&E AND URS/BLUME REGARDING DESIGN INFORMATION.

993	820206	OD	1	820628	RLCA	PPRR/OIP	TES	RDC		OD WATER STORAGE TANKS

COMMENT: RLCA RECOMMEND PG&E TO CHECK ON ACCURACY OF INFORMATION TRANSFER TO URS/BLUME AS PART OF BLUME INTERNAL REVIEW & RLCA TO REVIEW THIS. TES REVIEWED ' PRELIMINARY REPORT, SEISMIC REVERIFICATION REPORT, SEISMIC REVERIFICATION PROGRAM NOV. 12, 1981'

993	820206	OD	2	820701	TES	PRR/OIP	PG&E	RDC		OD WATER STORAGE TANKS.

COMMENT: ITR-1, SECTION 3.5.3.9. PG&E TO INCLUDE THIS ITEM IN THE BLUME INTERNAL REVIEW. SUBJECT TO RLCA REVIEW.

993	820206	OD	3	820823	TES	OIR	RLCA	RDC		OD WATER STORAGE TANKS.

COMMENT: THIS FILE WILL BE RECONSIDERED BY RLCA & TES TO INCLUDE EOI 992 WHICH IS VERY SIMILAR.

993	820206	OD	4	820824	RLCA	PPRR/OIP	TES	RDC		OD WATER STORAGE TANKS.

COMMENT: RLCA RECOMMENDS BECAUSE THE CONCERNS ARE SIMILAR EOI 992 IS COMBINED WITH THIS EOI. PG&E TO CHECK ON INFORMATION TRANSMITTAL AND ACCURACY.

993	820206	OD	5	820909	TES	PRR/OIP	PG&E	RDC		OD WATER STORAGE TANKS.

COMMENT: BECAUSE THE CONCERNS ARE SIMILAR EOI 992 IS COMBINED WITH THIS EOI. PG&E TO CHECK ON INFORMATION TRANSMITTAL AND ACCURACY.

993	820206	OD	6	830210	TES	OIR	RLCA	RDC		OD WATER STORAGE TANKS.

COMMENT: AS REQUESTED IN REV. 5, DCP HAS PERFORMED A REEVALUATION AND REPORTED RESULTS IN SECT. 2.1.6 OF THEIR PH I REPORT. DCP COMPLETION SHEET ON THIS FILE ISSUED ON 830203. RLCA AND TES TO REVIEW DCP RESPONSE AND RESOLVE IF SATISFIED. THIS FILE INCLUDES THE CONCERNS OF FILE 992.

993	0		7	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

993	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

993	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
993	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

994	820206	OD	0	820206	RLCA	OIR	RLCA	RDF		PIPING CONSULTANT INTERFACE

COMMENT: PG&E USES FORMAL DESIGN GUIDE FOR SEISMIC FACTORS WHICH THEY TRANSMIT TO CONSULTANTS. THIS WILL BE A SIGNIFICANT INTERFACE TO EXAMINE IN OVERALL VERIFICATION PROGRAM. GENERICALLY COVERED BY RLCA IN CURRENT PROGRAM.

994	820206	OD	1	820309	RLCA	PPRR/CI	TES	RDF		PIPING CONSULTANT INTERFACE

COMMENT: PHASE I PIPING SAMPLE INCLUDES SEVERAL LINES ANALYZED BY CONSULTANTS. THIS INTERFACE IS COVERED BY INDEPENDENT CALCS.

994	820206	OD	2	820409	TES	CR	NONE	RDF	NO	PIPING CONSULTANT INTERFACE

COMMENT: PG&E USES A FORMAL DESIGN GUIDE FOR THE SEISMIC FACTORS WHICH THEY TRANSMIT TO THE CONSULTANTS. THIS WILL BE A SIGNIFICANT INTERFACE TO EXAMINE IN THE OVERALL VERIFICATION PROG. SINCE THE PHASE I PIPING SAMPLE INCLUDES SEVERAL LINES ANALYZED BY CONSULTANTS, THIS INTERFACE IS COVERED BY THE INDEPENDENT CALCULATIONS.

995	820206	OD	0	820206	RLCA	OIR	RLCA	RDF		EES TRANSMITTAL COVER SHEETS

COMMENT: PG&E TRANSMITTAL COVER SHEETS DO NOT LIST CONTENTS OF ENTIRE ATTACHMENTS SENT TO EES.

995	820206	OD	1	820309	RLCA	PPRR/CI	TES	RDF		EES TRANSMITTAL COVER SHEETS

COMMENT: RLCA HAS SELECTED SEVERAL EES PIPING ANALYSES. BY COMPARISON OF STRESS RESULTS, THIS INTERFACE WILL BE EXAMINED IN THE CURRENT PROGRAM.

995	820206	OD	2	820409	TES	CR	NONE	RDF	NO	EES TRANSMITTAL COVER SHEETS

COMMENT: THE TRANSMITTALS OF PIPING INFORMATION FROM PG&E TO EES NEED TO BE EXAMINED. RLCA HAS SELECTED SEVERAL EES PIPING ANALYSES. BY COMPARISON OF STRESS RESULTS, THIS INTERFACE WILL BE EXAMINED IN THE CURRENT PROGRAM.

996	820206	OD	0	820206	RLCA	OIR	RLCA	RDF		BLUME PIPING CORRESPONDENCE

COMMENT: FOR THE SCOPE OF PIPING ASSIGNED TO URS/BLUME, VERY LITTLE CORRESPONDENCE WAS LOCATED DURING TIME FRAME OF UNIT 1 PIPING ANALYSES. URS/BLUME HAS NOT YET BEEN CONTACTED TO PROVIDE ANY TRANSMITTALS.

996	820206	OD	1	820430	RLCA	PPRR/CI	TES	RDF		BLUME PIPING CORRESPONDENCE

COMMENT: SEVERAL PIPING PROBLEMS SELECTED FOR INDEPENDENT ANALYSIS WERE AUTHORED BY URS/BLUME PRIOR TO EES REVISION. THIS PG&E - URS/BLUME PIPING INTERFACE IS COVERED IN PHASE I PROGRAM.

996	820206	OD	2	820510	TES	PRR/CI	TES	RDF		BLUME PIPING CORRESPONDENCE

COMMENT: INTERFACE BETWEEN PG&E AND THEIR CONSULTANTS IS COVERED BY THE IDVP INDEPENDENT CALCULATIONS.

996	820206	OD	3	820510	TES	CR	NONE	RDF	NO	BLUME PIPING CORRESPONDENCE

COMMENT: THE TRANSMITTAL OF PIPING INFORMATION FROM PG&E TO URS/BLUME NEED TO BE EXAMINED. RLCA HAS SELECTED SEVERAL PIPING PROBLEMS AUTHORED BY URS/BLUME PRIOR TO EES REVISION. BY COMPARISON OF STRESS RESULTS, THIS INTERFACE WILL BE EXAMINED IN THE CURRENT PROGRAM.

997	820206	OD	0	820206	RLCA	OIR	RLCA	JCT		PG&E VALVE TRANSMITTALS TO EES

COMMENT: LIMITED DOCUMENTATION BETWEEN PG&E AND EES AVAILABLE. SOME RECORDS OF EES TRANSMITTALS TO PG&E HAVE BEEN FOUND TO DATE. A COMPLETE SET OF EES TRANSMITTALS TO PG&E HAS NOT BEEN COMPILED YET.

997	820206	OD	1	820309	RLCA	PPRR/CI	TES	JCT		PG&E VALVE TRANSMITTALS TO EES

COMMENT: IDVP SAMPLE INCLUDES EES PIPING SYSTEM ANALYSIS AND REVIEW OF VALVE ACC'L'S.

997	820206	OD	2	820409	TES	CR	NONE	JCT	NO	PG&E VALVE TRANSMITTALS TO EES

COMMENT: DOCUMENTATION CONCERNING TRANSMITTAL OF VALVE INFORMATION FROM PG&E TO EES LACKING, RLCA PRELIMINARY REPORT, 811112 3.3.7.2.2. PROGRAM SAMPLE INCLUDES EES PIPING ANALYSIS REVIEW, IDVP PROGRAM PLAN, PHASE 1, REV. 1, 820706, 5.4.2, TABLE II.

998	820206	OD	0	820206	RLCA	OIR	RLCA	JCT		PG&E VALVE TRANSMITTALS TO EDS

COMMENT: A LIMITED AMOUNT OF DOCUMENTATION OF INFORMATION TRANSFERRED FROM PG&E TO EDS HAS BEEN FOUND TO DATE. COMPLETE DOCUMENTATION OF REQUALIFICATION INFORMATION FOR THE VALUES BEING REVIEWED HERE HAS NOT BEEN COMPILED AT THIS POINT IN TIME.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
998	820206	OD	1	820309	RLCA	PPRR/CI	TES	JCT		PG&E VALVE TRANSMITTALS TO EDS

COMMENT: IDVP SAMPLE INCLUDES TWO VALVES ANALYZED BY EDS WHICH COVERS THIS INTERFACE.

998	820206	OD	2	820409	TES	CR	NONE	JCT	NO	PG&E VALVE TRANSMITTALS TO EDS

COMMENT: LIMITED DOCUMENTATION OF VALVE INFORMATION TRANSMITTED FROM PG&E TO EDS AVAILABLE, RLCA PRELIMINARY REPORT 811112, 3.3.7.2.3. PROGRAM SAMPLE INCLUDES AUX FW & MS ISO VALVES ANALYZED BY EDS, IDVP PROGRAM PLAN, PHASE I, 820706, 5.4.5, TABLE I. TWO VALVES SELECTED FOR INDEPENDENT ANALYSIS BY EDS. INTERFACE COVERED BY THIS SAMPLE.

999	820206	OD	0	820206	RLCA	OIR	RLCA	JCT		EDS VALVE TRANSMITTALS TO PG&E.

COMMENT: LIMITED DOCUMENTATION OF RESULTS EDS TO PG&E.

999	820206	OD	1	820309	RLCA	PPRR/CI	TES	JCT		EDS VALVE TRANSMITTALS TO PG&E.

COMMENT: IDVP SAMPLE INCLUDES TWO VALVES ANALYZED BY EDS WHICH COVERS THIS INTERFACE.

999	820206	OD	2	820409	TES	CR	NONE	JCT	NO	EDS VALVE TRANSMITTALS TO PG&E.

COMMENT: TRANSMITTALS OF EDS VALVE RESULTS TO PG&E INCOMPLETE, RLCA PREL. REPORT 811112, 3.3.7.2.3. PROGRAM SAMPLE INCLUDES AUX FW AND MS ISO VALVES ANALYZED BY EDS. IDVP PROGRAM PLAN, PHASE 1, 820706, 5.4.5, TABLE I.

1000	820206	OD	0	820206	RLCA	OIR	RLCA	JCT		VALVE TRANSMITTALS TO WESTINGHOUSE

COMMENT: INSUFFICIENT DOCUMENTATION OF PG&E TO WESTINGHOUSE TRANSMITTALS.

1000	820206	OD	1	820309	RLCA	PPRR/CI	TES	JCT		VALVE TRANSMITTALS TO WESTINGHOUSE

COMMENT: IDVP SAMPLE INCLUDES 16 WESTINGHOUSE VALVES WHICH COVERS THIS INTERFACE.

1000	820206	OD	2	820417	TES	CR	NONE	JCT	NO	VALVE TRANSMITTALS TO WESTINGHOUSE

COMMENT: RECORDS OF VALVE INFORMATION FLOW FROM PG&E TO WESTINGHOUSE INCOMPLETE, RLCA PREL. REPORT 811112, 3.3.7.2.4. PROGRAM SAMPLE INCLUDES CHECKING ACCELERATIONS FOR 16 WESTINGHOUSE SUPPLIED VALVES, IDVP PROGRAM PLAN, PHASE 1,REV. 1,820706, 5.4.5, TABLE I. IDVP SAMPLE INCLUDES 16 W VALVES WHICH COVERS THIS INTERFACE.

1001	820206	SID	0	820206	RLCA	OIR	RLCA	JCT		VALVE VERIFICATION OF ACCELERATIONS

COMMENT: NO EVIDENCE TO INDICATE CALCULATED VALVE ACC. VERIFIED.

1001	820206	SID	1	820309	RLCA	PPRR/CI	TES	JCT		VALVE VERIFICATION OF ACCELERATIONS

COMMENT: PHASE-I PROGRAM PROVIDES FOR VERIFICATION OF ACCEL. FOR 28 VALVES.

1001	820206	SID	2	820417	TES	CR	NONE	JCT	NO	VALVE VERIFICATION OF ACCELERATIONS

COMMENT: VERIFICATION OF VALVE QUALIFICATION INFORMATION FLOW BETWEEN PG&E VALVE & PIPING ANALYSIS, RLCA PRELIMINARY REPORT 811112, 3.3.7.2.5. PROGRAM SAMPLE INCLUDES CHECKING ACCELERATIONS FOR 28 VALVES. IDVP PROGRAM PLAN, PHASE 1, 810706, 5.4.5, TABLE I.

1002	820206	SID	0	820206	RLCA	PER/B	TES	CHK		SUPPLY FANS S67, 68, & 69 INPUT

COMMENT: CALCULATION FOR FANS USED INCORRECT & UNCONSERVATIVE SEISMIC INPUTS. ALSO, CALCULATION FOR FORCED DRAFT SHUTTER DAMPER IGNORED GRAVITY COMPONENT.

1002	820206	SID	1	820417	TES	ER/B	PG&E	CHK		SUPPLY FANS S67, 68, & 69 INPUT

COMMENT: CALCULATION FOR FANS USED INCORRECT & UNCONSERVATIVE SEISMIC INPUTS. ALSO, CALCULATION FOR FORCED DRAFT SHUTTER DAMPER IGNORED GRAVITY COMPONENT.

1002	820206	SID	2	820417	TES	OIR	RLCA	CHK	NO	SUPPLY FANS S67, 68, & 69 INPUT

COMMENT: PG&E PROVIDED CALCULATION WITH PROPER INPUTS AND RESULTS OF CALCULATIONS FOR DAMPER. NO MOD. REQUIRED.

1002	820206	SID	3	820521	RLCA	PPRR/CI	TES	CHK	NO	SUPPLY FANS S67, 68, & 69 INPUT

COMMENT: RLCA HAS REVIEWED CALCULATIONS ATTACHED TO PG&E ACTION SHEET OF 820310. RLCA HAS VERIFIED THAT NO MODIFICATIONS HAVE BEEN MADE AS RESULT OF THIS FILE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1002	820206	SID	4	820623	TES	PRR/CI	TES	CHK	NO	SUPPLY FANS 867, 68, & 69 INPUT

COMMENT: RLCA HAS REVIEWED CALCULATIONS ATTACHED TO PG&E ACTION SHEET OF 820310 AND ALSO VERIFIED THAT NO MODIFICATIONS HAVE BEEN MADE AS A RESULT OF THIS FILE.

1002	820206	SID	5	820623	TES	CR	NONE	CHK	NO	SUPPLY FANS S67, 68 & 69 INPUT

COMMENT: RLCA PRELIMIMARY REPORT OF 811112 NOTED CALC'S FOR FANS USED UNCONSERVATIVE SEISMIC INPUT. ERROR B. PG&E PROVIDED NEW CALC. WITH PROPER INPUTS. IDVP VERIFIED NO MODIFICATION MADE AS RESULT OF THIS FILE.

1002	820206	SID	6	830308	TES	OIR	RLCA	CHK	NO	SUPPLY FANS S67, 68 & 69 INPUT

COMMENT: BASED ON PG&E RESPONSE AND RLCA VERIFICATION THAT NO MODS REQUIRED, RLCA SHOULD CONSIDER ISSUING POTENTIAL PROGRAM RESOLUTION REPORT WHERE ER/B IS DOWNGRADED TO ER/C AND FILE CLOSED OUT. REFER TO PAR. 5.1.2 OF 8301 IDVP SM. FOR PROCEDURE.

1002	820206	SID	7	830310	RLCA	PER/C	TES	CHK	NO	SUPPLY FANS S67, 68 & 69 INPUT

COMMENT: CALCS USED INCORRECT AND UNCONSERVATIVE SEISMIC INPUTS. ALSO, FORCED DRAFT SHUTTER DAMPER QUALIFICATION SHOWED INCORRECT SEISMIC DEFINITION BECAUSE GRAVITY WAS NOT ADDED TO VERTICAL ACCELERATION. STRESS CALCS USING CORRECT SEISMIC INPUTS AND DEFINITIONS DIDN'T EXCEED ALLOWABLES. DOWNGRADED FROM ER/B.

1002	820206	SID	8	830322	TES	ER/C	PG&E	CHK	NO	SUPPLY FANS S67, 68 & 69 INPUT

COMMENT: CALCS FOR SUPPLY FANS FOUND TO USED INCORRECT AND UNCONSERVATIME SEISMIC INPUTS.ALSO, GRAVITY NOT ADDED FOR SEISMIC CONSIDERATIONS OF FORCED DRAFT SHUTTER DAMPER QUAL. CALC STRESSES USING CURRENT SEISMIC INPUTS AND DEFINITIONS DIDN'T EXCEED ALLOWABLES. ER/B ESTABLISHED BY REV. 1 TO THIS FILE IS DOWNGRABED.

1002	820206	SID	9	830322	TES	CR	NONE	CHK	NO	SUPPLY FANS S67, 68 & 69 INPUT

COMMENT: CALCS FOR SUPPLY FANS FOUND TO USED INCORRECT AND UNCONSERVATIME SEISMIC INPUTS.ALSO, GRAVITY NOT ADDED FOR SEISMIC CONSIDERATIONS OF FORCED DRAFT SHUTTER DAMPER QUAL. CALC STRESSES USING CURRENT SEISMIC INPUTS AND DEFINITIONS DIDN'T EXCEED ALLOWABLES. ER/B ESTABLISHED BY REV. 1 TO THIS FILE IS DOWNGRADED TO AN ER/C.

1003	820206	OD	0	820206	RLCA	OIR	RLCA	RCW		4KV SW RM HVAC DUCT SUPT

COMMENT: HOSGRI DUCT SUPPORT QUALIFICATIONS HAVE NOT BEEN LOCATED AS OF 811028. TO BE ADDRESSED BY PG&E & REVIEWED BY RLCA.

1003	820206	OD	1	820607	RLCA	PPRR/OIP	TES	RCW		4KV SW RM HVAC DUCT SUPT

COMMENT: PG&E WILL SUPPLY THE ANALYSIS OF RECORD DATED PRIOR TO 811028

1003	820206	OD	2	820621	TES	PRR/OIP	PG&E	RCW		4 KV SW RM HVAC DUCT SUPT

COMMENT: PG&E TO SUPPLY THE ANALYSIS OF RECORD DATED PRIOR TO 811028

1003	820206	OD	3	820823	TES	OIR	RLCA	RCW		4 KV SW RM HVAC DUCT SUPT

COMMENT: RLCA TO REVIEW AND DISPOSITION ACCORDINGLY THE PG&E RESOLUTION & COMPLETION SHEETS, 820615

1003	820206	OD	4	820825	RLCA	PER/C	TES	RCW		4 KV SW RM HVAC DUCT SUPT

COMMENT: DUCT SUPPORT CALCS. DATED PRIOR TO 811028 DO NOT QUALIFY SUPPORT FOR AREA A (TURBINE BUILDING).DUCT SUPPORT WAS NOT EVALUATED FOR HOSGRI.

1003	820206	OD	5	821005	TES	ER/AB	PG&E	RCW	YES	HVAC DUCT SUPPORT REEVALUATION

COMMENT: REV. 4 WAS A PER/C. BASED ON 820917 SUBMITTAL OF DCP PHASE 1 FINAL REPORT IN WHICH DCP HAS STATED THAT HVAC SUPPORTS ARE BEING REANALYZED, IDVP PROGRAM REVIEW COMMITTEE ON 820929 DECIDED TO CHANGE THIS TO AN ERROR/A OR B. IDVP ALSO DECIDED TO COMBINE FILE 1077 WITH THIS FILE.

1003	0		6	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1003	0		7	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1003	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1003	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1004	820206	OD	0	820206	RLCA	OIR	RLCA	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: RLCA PREL. REPORT 811112.ELECTRICAL EQUIPMENT AND INSTRUMENTATION.CONCERN ADDRESSED INSUFFICIENT TRANSMITTAL OF SEISMIC INFORMATION FROM PG&E TO WESTINGHOUSE.ONLY ONE TRANSMITTAL FOUND TO DATE:NEWMARK TIME HISTORIES FOR CONTAINMENT INTERIOR.

1004	820206	OD	1	820322	RLCA	PPRR/OIP	TES	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: RLCA RECOMMENDS THAT PG&E ASSEMBLE & CONTROL SPECTRA AND CHECK QUALIFICATIONS AGAINST THIS SPECTRA.

1004	820206	OD	2	820417	TES	PRR/OIP	PG&E	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: PG&E TO ASSEMBLE & CONTROL SPECTRA AND CHECK QUALIFICATIONS AGAINST THIS SPECTRA.

1004	820206	OD	3	820524	TES	OIR	RLCA	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: PG&E RESOLUTION SHT. 820521 WITH INDEX OF HOSGRI SPECTRA RECEIVED BY WESTINGHOUSE FROM PG&E. PG&E TRANSMITTED TO TES DOCUMENTATION THAT CONFIRMED THIS INDEX. WESTINGHOUSE AUDIT ON 820507 BY IDVP.

1004	820206	OD	4	820609	RLCA	PPRR/CI	TES	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: BASED ON PG&E TRANSMITTAL DCVP-TES-72 AND THE IDVP WESTINGHOUSE AUDIT ON 820507, TES INFORMED RLCA THAT SEISMIC INTERFACE BETWEEN PG&E AND WESTIMGHOUSE IS VERIFIED.

1004	820206	OD	5	820622	TES	PRR/CI	TES	RW		PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: BASED ON PG&E TRANSMITTAL DCVP-TES-72 AND THE IDVP WESTINGHOUSE AUDIT ON 820507
TES CONCLUDED THAT THE SEISMIC INTERFACE BETWEEN PG&E AND WESTINGHOUSE IS VERIFIED.

1004	820206	OD	6	820622	TES	CR	NONE	RW	NO	PG&E-WESTINGHOUSE SEISMIC INTERFACE.

COMMENT: ELECTRICAL EQUIPMENT AND INSTRUMENTATION. CONCERN ADDRESSED INSUFFICIENT TRANSMITTAL OF SEISMIC INFORMATION FROM PG&E TO W. BASED ON PG&E TRANSMITTAL DCVP-TES-72 AND THE IDVP WESTINGHOUSE AUDIT ON 820507, TES CONCLUDED THAT THE SEISMIC INTERFACE BETWEEN PG&E AND WESTINGHOUSE IS VERIFIED.

1005	820206	OD	0	820206	RLCA	OIR	RLCA	RRB		WYLE LABS TRANSMITTAL OF SPECTRA

COMMENT: DOCUMENTATION REQUIRED REGARDING FORMAL TRANSMITTAL OF SPECTRA FROM PG&E TO WYLE LABS.

1005	820206	OD	1	820309	RLCA	PPRR/CI	TES	RRB		WYLE LABS TRANSMITTAL OF SPECTRA

COMMENT: NO DOCUMENTATION FOUND TO DATE REGARDING FORMAL TRANSMITTAL OF SPECTRA BUT CONCERN COVERED BY EOI'S 1013 & 1049.

1005	820206	OD	2	820417	TES	CR	NONE	RRB	NO	WYLE LABS TRANSMITTAL OF SPECTRA

COMMENT: ALTHOUGH NO DOCUMENTATION OF FORMAL TRANSMITTAL OF SPECTRA FROM PG&E TO WYLE HAS BEEN FOUND TO DATE, THIS CONCERN IS COVERED BY EOI'S 1013 & 1049.

1006	820206	OD	0	820206	RLCA	OIR	RLCA	CHK		ELEC EQUIP QUAL. BY ANALYSIS

COMMENT: FOR EQUIPMENT REQUALIFIED BY ANALYSIS, AS INDICATED BY NOTE 5 IN TABLE 10-1 OF HOSGRI, NO INFORMATION HAS BEEN FOUND TO DATE AS TO WHO HAD PERFORMED THESE ANALYSES. THIS IS BEING COVERED GENERICALLY BY RLCA IN THE CURRENT PROGRAM.

1006	820206	OD	1	820309	RLCA	PPRR/CI	TES	CHK		ELEC EQUIP QUAL BY ANALYSIS

COMMENT: THE PHASE I PROGRAM INCLUDES TWO ELECTRICAL CABINETS QUALIFIED BY ANALYSIS.

1006	820206	OD	2	820421	TES	CR	NONE	CHK	NO	ELEC EQUIP QUAL BY ANALYSIS

COMMENT: FOR EQUIPMENT REQUALIFIED BY ANALYSIS, AS INDICATED BY NOTE 5 IN TABLE 10-1 OF HOSGRI, NO INFORMATON HAS BEEN FOUND TO DATE AS TO WHO HAD PERFORMED THESE ANALYSES. THE PHASE I PROGRAM INCLUDES TWO ELECTRICAL CABINETS QUALIFIED BY ANALYSIS.

1007	820206	SID	0	820206	RLCA	OIR	RLCA	CHK		ELEC EQUIP TRANSMITTAL OF INFO

COMMENT: SHOULD FURTHER INVESTIGATION FAIL TO UNCOVER RECORDS THAT UNSATISFACTORILY DOCUMENT THE TRANSFER OF SEISMIC REQUALIFICATION INFORMATION BETWEEN PG&E AND THEIR CONSULTANTS, THE ACTUAL TEST SPECTRA AND THE REQUALIFICATION ANALYSES WILL BE EXAMINED TO SEE IF APPLICABLE SEISMIC INFORMATION WAS APPLIED.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
1007	820206	SID	1	820309	RLCA	PPRR/CI	TES	CHK		ELEC EQUIP TRANSMITTAL OF INFO
COMMENT: TRANSMITTALS BETWEEN PG&E AND THEIR CONSULTANTS OF ELECTRICAL EQUIPMENT INFORMATION DO NOT SATISFACTORILY DOCUMENT THIS INTERFACE. THE PHASE I SAMPLE INCLUDES SEVEN GROUPS OF ELECTRICAL EQUIPMENT QUALIFIED BY CONSULTANT TESTING. THIS INTERFACE IS COVERED.										
1007	820206	SID	2	820421	TES	CR	NONE	CHK	NO	ELEC EQUIP TRANSMITTAL OF INFO
COMMENT: TRANSMITTALS BTW.PG&E AND CONSULTS. OF ELEC.EQ.INFO DO NOT SATIS.DOC.THE INTERFACE. PH.I SAMPLE INCLUDES 7 GRPS.OF ELEC.EQ.QUAL.BY CONSULT.TESTING. THIS INTERFACE IS COVERED.										
1008	820209	OD	0	820209	RLCA	OIR	RLCA	CHK		MAIN ANNUNCIATOR CABINET SPECTRA
COMMENT: PG&E ANALYSIS REFERENCED PRELIMINARY SPECTRA. RLCA IS COMPARING PRELIMINARY SPECTRA AGAINST HOSGRI SPECTRA TO DETERMINE DIFFERENCE.										
1008	820209	OD	1	820318	RLCA	PER/C	TES	CHK		MAIN ANNUNCIATOR CABINET SPECTRA
COMMENT: PG&E ANALYSIS REFERENCED PRELIMINARY SPECTRA. SPECTRA DIFFERANCE INDICATES INCORRECT ENGG. INPUT; ALLOWABLES ARE NOT EXCEEDED AS A RESULT OF DIFFERENCE.										
1008	820209	OD	2	820608	TES	ER/C	PG&E	CHK		MAIN ANNUNCIATOR CABINET SPECTRA
COMMENT: ITR-1, 3.5.2.3 AND 3.9.4. SEE EDI 949. PG&E USES CORRECT SPECTRA IN DOING EDI 949 EVALUATION. PG&E TO INCORPORATE CORRECT HOSGRI SPECTRA IN THEIR REEVALUATION OF CABINET.										
1008	820209	OD	3	821018	TES	CR	NONE	CHK	NO	MAIN ANNUNCIATOR CABINET SPECTRA
COMMENT: PG&E ANALYSIS REFERENCED PRELIMINARY SPECTRA. SPECTRA DIFFERENCE INDICATES INCORRECT ENGG. INPUT; ALLOWABLES ARE NOT EXCEEDED AS A RESULT OF DIFFERENCE. SEE EDI 949. PG&E USES CORRECT SPECTRA IN DOING EDI 949 EVALUATION. PG&E TO INCORPORATE CORRECT HOSGRI SPECTRA IN THEIR REEVALUATION OF CABINET. ERROR CLASS C.										
1009	820209	OD	0	820209	RLCA	OIR	RLCA	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: NEITHER SPECTRA NOR SCALING CRITERIA HAVE BEEN PROVIDED FOR SUPT. LOCATION ABOVE ELEVATION 140' FOR THE CONTAINMENT INTERIOR. EL. 140 SPECTRA FOR HIGHER ELEVATIONS MAY NOT BE CONSERVATIVE.										
1009	820209	OD	1	820322	RLCA	PPRR/OIP	TES	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: RLCA RECOMMENDS THAT PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS OF EQUIPMENT & PIPING AGAINST THIS SPECTRA. RLCA WILL THEN VERIFY APPLICABILITY OF THE CONTROLLED SPECTRA TO EQUIPMENT & PIPING ABOVE EL.140										
1009	820209	OD	2	820417	TES	PRR/OIP	PG&E	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: ITR-1, SECTION 3.2.4 AND 3.9.4 PG&E IS TO ASSEMBLE SPECTRA ABOVE EL. 140, REQUALIFY EQUIP. AND PIPING WHICH ARE AFFECTED. RLCA TO VERIFY PG&E ACTION.										
1009	820209	OD	3	820903	TES	OIR	RLCA	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: BASED ON PG&E PRESENTATIONS ON AUG. 6 & SEPT. 1, 1982, THE CONTAINMENT STRUCTURES ARE BEING REVIEWED AND/OR REANALYZED UNDER THE PG&E ITP. TES AND RLCA WILL CONSIDER COMBINING THIS FILE INTO EDI 1014.										
1009	820209	OD	4	820907	RLCA	PPRR/CI	TES	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: BASED ON PG&E PRESENTATIONS ON AUG. 6 & SEPT. 1, 1982, THE CONTAINMENT STRUCTURES ARE BEING REVIEWED AND/OR REANALYZED UNDER THE PG&E ITP.										
1009	820209	OD	5	820910	TES	PRR/CI	TES	RDC		CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: DELETE FROM ITR-1, SECTION 3.2.4 & 3.9.4 ; BASED ON PG&E ITP. THIS FILE IS COMBINED INTO EDI 1014 (ER/AB).										
1009	820209	OD	6	820910	TES	CR	NONE	RDC	NO	CONTAINMENT INTERIOR ABOVE 140 SPECTRA
COMMENT: NEITHER SPECTRA NOR SCALING CRITERIA WERE PROVIDED ABOVE EL. 140. EL. 140 SPECTRA FOR SUPT. @ HIGHER ELEVATIONS MAY NOT BE CONSERVATIVE. BASED ON PG&E ITP, CONTAINMENT STRUCTURE IS BEING REVIEWED AND/OR REANALYZED. THIS FILE IS COMBINED INTO EDI 1014(ER/AB).										
1010	820209	OD	0	820209	RLCA	OIR	RLCA	RDC		TURB BLDG ABOVE 140 SPECTRA
COMMENT: NEITHER SPECTRA NOR SCALING CRITERIA WERE DEFINED FOR SUPPORT LOCATIONS ABOVE EL 140', THE USE OF EL 140' SPECTRA FOR HIGHER ELEVATIONS MAY NOT BE CONSERVATIVE.										
1010	820209	OD	1	820322	RLCA	PPRR/OIP	TES	RDC		TURB BLDG ABOVE 140 SPECTRA
COMMENT: RLCA RECOMMENDS THAT PG&E ASSEMBLE THE LATEST SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1010	820209	OD	2	820417	TES	PRR/OIP	PG&E	RDC		TURB BLDG ABOVE 140 SPECTRA

COMMENT: ITR-1, 3.9.4, PG&E ASSEMBLE SPECTRA. AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA. EL. 140' SPECTRA MAY NOT BE CONSERVATIVE.

1010	820209	OD	3	820720	TES	OIR	RLCA	RDC		TURB BLDG ABOVE 140 SPECTRA

COMMENT: BASED ON PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THE TURBINE BUILDING WILL BE REVIEWED AND/OR REANALYZED. TES AND RLCA WILL RECONSIDER THIS FILE.

1010	820209	OD	4	820721	RLCA	PRR/CI	TES	RDC		TURB BLDG ABOVE 140 SPECTRA

COMMENT: RLCA RECOMMENDS THAT THIS FILE BE COMBINED WITH EOI 1026, WHICH ALSO PERTAINS TO THE TURBINE BLDG.

1010	820209	OD	5	820723	TES	PRR/CI	TES	RDC		TURB BLDG ABOVE 140 SPECTRA

COMMENT: DELETE FROM ITR-1. THIS EOI IS COMBINED WITH EOI 1026 (ER/AB).

1010	820209	OD	6	820723	TES	CR	NONE	RDC	NO	TURB BLDG ABOVE 140 SPECTRA

COMMENT: NEITHER SPECTRA NOR SCALING CRITERIA WERE DEFINED FOR SUPT. LOCATIONS ABOVE EL. 140'. THE USE OF EL 140' SPECTRA FOR HIGHER EL MAY NOT BE CONSERVATIVE. BASED ON PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THIS EOI IS COMBINED INTO EOI 1026 (ER/AB).

1011	820209	SID	0	820209	RLCA	OIR	RLCA	PPR		DG OIL PRIMING TANK SPECTRA. TURBINE BLDG.

COMMENT: PG&E ANALYSIS USED PRELIMINARY SPECTRA; PRELIMINARY AND HOSGRI SPECTRA ARE SAME ; RESULTS ARE VALID ; QUESTION OF CONTROL OF DESIGN SPECTRA WILL BE ADDRESSED.

1011	820209	SID	1	820317	RLCA	PPRR/DEV	RLCA	PPR		DG OIL PRIMING TANK SPECTRA. TURBINE BLDG.

COMMENT: THE HOSGRI SPECTRA ATTACHED TO THE PG&E ANALYSIS FOR THE OIL PRIMING TANK ARE PRELIMINARY SPECTRA. ACCELERATIONS USED IN CALCULATIONS ARE CORRECT.

1011	820209	SID	2	820421	TES	PRR/DEV	PG&E	PPR		DG OIL PRIMING TANK SPECTRA. TURBINE BLDG.

COMMENT: THE CONTROL OF DESIGN SPECTRA WAS NOT PROPERLY EXERCISED BY PG&E.ACCELERATIONS USED IN THE CALCULATIONS WERE PRELIMINARY

1011	820209	SID	3	820709	TES	CR	NONE	PPR	NO	DG OIL PRIMING TANK SPECTRA. TURBINE BLDG.

COMMENT: PRELIMINARY AND HOSGRI SPECTRA ARE SAME; QUESTION OF CONTROL OF DESIGN SPECTRA WILL BE ADDRESSED. RESULTS ARE VALID AS ACCELERATIONS USED IN CALCS ARE CORRECT. NO PHYSICAL MODIFICATIONS WILL BE APPLIED PER PG&E COMPL. SHT. 820601. DEVIATION.

1012	820209	ICD	0	820209	RLCA	OIR	RLCA	PPR		DG OIL PRIMING TANK 15% DIFF

COMMENT: RLCA AND PG&E CALCULATED RESULTS DIFFER BY MORE THAN 15% DUE TO ANALYSIS METHODS; NOT SIGNIFICANT. DUE TO STRESS BEING LESS THAN HALF ALLOWABLE VALUES. EOI 1011, 1015 AND 1017 ADDRESS OTHER CONCERNS.

1012	820209	ICD	1	820421	TES	CR	NONE	PPR	NO	DG OIL PRIMING TANK 15% DIFF

COMMENT: 15% DIFFERENCE IN STRESSES RESULTED DUE TO THE DIFFERENCE IN ANALYSIS METHODS. CALCULATED STRESSES ARE BELOW ONE HALF OF THE ALLOWABLE VALUES. THE 15% CRITERIA IS NOT MEANINGFUL IN THIS CASE. INVALID.

1013	820209	OD	0	820209	RLCA	OIR	RLCA	RRB		WYLE LAB SPECTRA

COMMENT: SOME GROUP VI EQUIPMENT HAS NOT BEEN QUALIFIED SINCE THE TEST SPECTRA USED DOES NOT COMPLETELY ENVELOPE THE HOSGRI SPECTRA.

1013	820209	OD	1	820527	RLCA	PER/B	TES	RRB		WYLE LAB SPECTRA

COMMENT: DETAILED RLCA REVIEW SHOWS SPECTRA USED ENVELOPES HOSGRI ABOVE 15 Hz

1013	820209	OD	2	820603	RLCA	PER/B	TES	RRB		WYLE LAB SPECTRA

COMMENT: DETAILED RLCA REVIEW SHOWS SPECTRA USED ENVELOPES HOSGRI ABOVE 15 Hz ;ALL EQUIPMENT RESONANT FREQUENCIES ABOVE 29 Hz. TEST JUDGED ADEQUATE FOR QUALIFICATION.

1013	820209	OD	3	820610	TES	ER/B	PG&E	RRB		WYLE LAB SPECTRA

COMMENT: -SINE SWEEPS SHOW ALL RESONANCE ABOVE 29 Hz , THEREFORE ENVELOPING SPECTRA ADEQUATE FOR QUALIFICATION. REF WYLE RPT. 58255.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
1013	820209	OD	4	820723	TES	OIR	RLCA	RRB		WYLE LAB SPECTRA
COMMENT:	ITR-1, 3.6.4 AND 3.9.4, CONFIRM THAT TEST RESPONSE DOES NOT ENVELOPE HOSGRI. ENVELOPES ABOVE 15 Hz ONLY. REF R.R FRAY RES. SHT. 820715- NO MODS.									
1013	820209	OD	5	820723	RLCA	PPRR/CI	TES	RRB	NO	WYLE LAB SPECTRA
COMMENT:	ITR-1, 3.6.4 AND 3.9.4, CONFIRM THAT TEST RESPONSE DOES NOT ENVELOP HOSGRI, BUT ENVELOPS IN EQUIPMENT RESONANCE AREA - CONSIDER QUALIFIED.									
1013	820209	OD	6	820723	TES	PRR/CI	TES	RRB	NO	WYLE LAB SPECTRA
COMMENT:	NO MODS REQUIRED. SEE ITR-4 SEC 3.4 CONFIRM THAT TEST RESPONSE DOES NOT ENVELOPE.									
1013	820209	OD	7	820723	TES	CR	NONE	RRB	NO	WYLE LAB SPECTRA
COMMENT:	ALTHOUGH SOME GROUP VI TEST RESPONSE SPECTRA DO NOT ENVELOPE REQUIRED RESPONSE SPECTRA BELOW 15 Hz, IT DOES ENVELOPE AT RESONANT FREQUENCIES OF EQUIPMENT AS DETERMINED FROM SINE SWEEP. THEREFORE THE EQUIPMENT IS CONSIDERED TO BE QUALIFIED. WAS PREVIOUSLY AN ERROR CLASS B.									
1013	820209	OD	8	830425	TES	OIR	RLCA	RRB	NO	WYLE LAB SPECTRA
COMMENT:	FILE REOPENED TO REVIEW CLASSIFICATION. EQUIPMENT CONSIDERED QUALIFIED, ALL DATA REQUIRED WAS IN ORIGINAL TEST REPORT. NO DESIGN OR OPERATING LIMITS WERE EXCEEDED. TES RECOMMENDS RLCA TO REVIEW AND CONSIDER DOWNGRADING IT FROM ER/B TO AN ER/C OR DEVIATION.									
1013	820209	OD	9	830428	RLCA	PER/C	TES	RRB	NO	WYLE LAB SPECTRA
COMMENT:	SINE SWEEP FROM WYLE REPORT 58255 SHOWS ALL EQUIP. RESONANCES ABOVE 29 HZ. SSE TEST SPECTRA ENVELOPES HOSGRI SPECTRA SO EQUIP CONSIDERED QUALIFIED. DETERMINATION MADE FROM ORIGINAL TEST REPORT. ER/B TO ER/C BECAUSE REQUIRED RESPONSE SPECTRA INCORRECTLY SPECIFIED IN TEST REPORT.									
1013	820209	OD	10	830504	TES	ER/C	PG&E	RRB	NO	WYLE LAB SPECTRA
COMMENT:	SINE SWEEP FROM WYLE REPORT 58255 SHOWS ALL EQUIP. RESONANCES ABOVE 29 HZ. SSE TEST SPECTRA ENVELOPES HOSGRI SPECTRA SO EQUIP CONSIDERED QUALIFIED. DETERMINATION MADE FROM ORIGINAL TEST REPORT. ER/B TO ER/C BECAUSE REQUIRED RESPONSE SPECTRA INCORRECTLY SPECIFIED IN TEST REPORT.									
1013	820209	OD	11	830504	TES	CR	NONE	RRB	NO	WYLE LAB SPECTRA
COMMENT:	SOME GROUP VI EQUIP NOT CONSIDERED QUALIFIED. SINE SWEEP FROM WYLE REPORT 58255 SHOWS ALL EQUIP RESONANCES ABOVE 29 HZ. SSE TEST SPECTRA ENVELOPES HOSGRI SPECTRA SO EQUIP CONSIDERED QUALIFIED. DETERMINATION MADE FROM ORIGINAL TEST REPORT. ER/B TO ER/C BECAUSE REQUIRED RESPONSE SPECTRA INCORRECTLY SPECIFIED IN TEST REPORT.									
1014	820209	OD	0	820209	RLCA	OIR	RLCA	RDC		CONTAINMENT EXTERIOR PIPE RACK.
COMMENT:	SPECTRA HAVE NOT BEEN PROVIDED FOR PIPE RACK OF CONTAINMENT EXTERIOR; THIS SPECTRA MAY NOT BE CONSERVATIVE.									
1014	820209	OD	1	820322	RLCA	PPRR/DEV	TES	RDC		CONTAINMENT EXTERIOR PIPE RACK.
COMMENT:	RLCA RECOMMENDED THAT PG&E ASSEMBLE LATEST URS/BLUME SPECTRA AND COMPARE WITH ALL QUALIFICATIONS.									
1014	820209	OD	2	820417	TES	PRR/OIP	PG&E	RDC		CONTAINMENT EXTERIOR PIPE RACK.
COMMENT:	SPECTRA NOT PROVIDED FOR SCALING CRITERIA. ITR-1, 3.2.4 AND 3.9.4 PG&E ASSEMBLE SPECTRA.									
1014	820209	OD	3	820903	TES	OIR	RLCA	RDC		CONTAINMENT EXTERIOR PIPE RACK.
COMMENT:	BASED ON THE PG&E PRESENTATION ON AUGUST 6, 1982, THE CONTAINMENT STRUCTURES ARE BEING REANALYZED AND/OR REVIEWED UNDER THE PG&E TECHNICAL PROGRAM. TES AND RLCA WILL CONSIDER COMBINING FILES 977 AND 1009 WITH THIS FILE.									
1014	820209	OD	4	820907	RLCA	PPRR/OIP	TES	RDC		CONTAINMENT REEVALUATION.
COMMENT:	BASED ON THE PG&E PRESENTATION ON 820806 TH. CONTAINMENT STRUCTURE IS BEING REANALYZED OR REVIEWED IN THE ITP. EOI 1014 COMBINES WITH EOIS 1009 AND 977.									
1014	820209	OD	5	820909	TES	OIR	RLCA	RDC		CONTAINMENT REEVALUATION.
COMMENT:	BASED ON PG&E ITP PRESENTATION ON AUG. 6 & SEPT. 1, 1982, TES AND RLCA WILL CONSIDER COMBINING EOI 977 & 1009 INTO THIS EOI 1014.									
1014	820209	OD	6	820909	RLCA	PER/AB	TES	RDC		CONTAINMENT REEVALUATION.
COMMENT:	BASED ON THE PG&E ITP PRESENTED ON AUG. 6 & SEPT. 1, 1982, THE CONTAINMENT STRUCTURE IS UNDER REVIEW AND/OR REANALYSIS BY PG&E. THEREFORE, RLCA RECOMMENDS COMBINING EOI'S 1009 AND 977, WHICH ALSO PERTAIN TO CONTAINMENT, INTO THIS FILE AND THIS FILE TO BE ISSUED AS ER/AB.									

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
1014	820209	OD	7	820910	TES	ER/AB	PG&E	RDC		CONTAINMENT REEVALUATION.

COMMENT: BASED ON THE PG&E ITP, EOI 977 AND 1009 ARE COMBINED INTO THIS EOI 1014 WHICH IS ISSUED AS ER/AB.

1014	820209	OD	8	821113	TES	ER/AB	PG&E	RDC		CONTAINMENT REEVALUATION.

COMMENT: SPECTRA FOR DESIGN ANALYSIS OF PIPE RACK ATTACHED TO CONTAINMENT EXTERIOR MAY NOT BE APPLICABLE. REV.8 ISSUED TO COMBINE FILES 3006 AND 3007 INTO THIS FILE WHICH ALREADY CONTAINS FILES 977 AND 1009.

1014	820209	OD	9	830105	TES	ER/AB	PG&E	RDC	YES	CONTAINMENT REEVALUATION.

COMMENT: SPECTRA FOR DESIGN ANALYSIS OF PIPE RACK ATTACHED TO CONTAINMENT EXTERIOR MAY NOT BE APPLICABLE. REV.8 ISSUED TO COMBINE FILES 3006 AND 3007 INTO THIS FILE WHICH ALREADY CONTAINS FILES 977 AND 1009. REV. 9 WAS ISSUED TO COMBINE FILE 3008 INTO THIS FILE.

1014	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1014	0		11	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1014	0		12	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1014	0		13	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1014	0		14	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1014	0		15	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1015	820211	SID	0	820211	RLCA	OIR	RLCA	PPR		DG OIL PRIMING TANK DAMPING. TURBINE BLDG.

COMMENT: PG&E QUAL. ANALYSIS SPECIF. 4% DAMPING; REG. GUIDE SPECIFIES 3% DAMPING CALCULATED PG&E RESULTS LESS THAN HALF OF ALLOWABLE. RLCA RESULTS DIFFER SLIGHTLY FROM PG&E WITH NEW VALUE.

1015	820211	SID	1	820213	RLCA	PER/C	TES	PPR		DG OIL PRIMING TANK DAMPING. TURBINE BLDG.

COMMENT: HOSGRI 5.2.1 PERMITS 4% DAMPING FOR COMPONENTS ; PG&E VALUE IS THEREFORE CORRECT.

1015	820211	SID	2	820417	TES	CR	NONE	PPR	NO	DG OIL PRIMING TANK DAMPING. TURBINE BLDG.

COMMENT: PG&E QUALIFICATION ANALYSIS SPECIFIED 4% DAMPING. REGULATORY GUIDE 1.61 SPECIFIES 3% DAMPING FOR EQUIPMENT. HOSGRI PERMITS 4% DAMPING. PG&E VALUE IS CORRECT. POTENTIAL ERROR CLASS C. INVALID.

1016	820211	DMD	0	820211	RLCA	OIR	RLCA	RCW		BOLT ALLOWABLES

COMMENT: NOT ASSIGNED ITR. ANCHOR ALLOWABLES ON TWO DRAWINGS DO NOT AGREE; CORRECT DESIGN CANNOT BE DETERMINED.

1016	820211	DMD	1	820607	RLCA	PPRR/OIP	TES	RCW		BOLT ALLOWABLES

COMMENT: BASED ON RLCA REQUEST FOR INFORMATION 163. ANCHOR ALLOWABLES ON TWO DRAWINGS DO NOT AGREE; CORRECT DESIGN CANNOT BE DETERMINED.

1016	820211	DMD	2	820621	TES	PRR/OIP	PG&E	RCW		BOLT ALLOWABLES

COMMENT: PG&E SHOULD EXAMINE THIS ITEM AND DECIDE IF IT IS OUTSIDE THE IDVP PER THE EXEMPTION IN SECTION 7.1 OF THE PHASE I PROGRAM MANAGEMENT PLAN.

	REV. 0		LATEST REV.			ACTION	PG&E			
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1016	820211	DMD	3	830210	TES	PRR/CI	TES	RCW		BOLT ALLOWABLES
COMMENT: DCP COMPLETION SHEET SIGNED BY R.R. FRAY ON 830131 STATES THAT EXPANSION ANCHOR ALLOWABLES LISTED IN APPENDIX C OF DCM M-9 WERE DEVELOPED BY TES IN RESPONSE TO IE BULLETIN 79-02 AND HENCE THIS ITEM IS OUTSIDE THE SCOPE OF THE IDVP.										
1016	820211	DMD	4	830210	TES	CR	NONE	RCW	NO	BOLT ALLOWABLES
COMMENT: ANCHOR ALLOWABLES ON DRAWING DON'T AGREE WITH DCM M-9. DCP COMP SHEET SIGNED 830131 BY R.R. FRAY STATES THAT EXPANSION ANCHOR ALLOWABLES LISTED IN APP. C OF DCM M-9 WERE DEVELOPED BY TES IN RESPONSE TO IE BULLETIN 79-02 AND HENCE OUTSIDE SCOPE OF IDVP. CLOSED ITEM.										
1017	820211	DMD	0	820211	RLCA	PER/C	RLCA	PPR		DG OIL PRIMING TANK SG WEIGHT, TURBINE BLDG.
COMMENT: WEIGHT OF SIGHT-GLASS LEVEL INDICATOR IS LESS THAN ACTUAL. PG&E'S CALCULATED RESULTS ARE LESS THAN HALF ALLOWABLE ; RLCA FOUND INSIGNIFICANT CHANGE W/REVISED VALUE.										
1017	820211	DMD	1	820310	RLCA	PER/C	TES	PPR		DG OIL PRIMING TANK SG WEIGHT, TURBINE BLDG.
COMMENT: PG&E ENGINEERING JUDGEMENT USED TO JUSTIFY WEIGHT OF SIGHT-GLASS INDICATOR, BUT NOT DOCUMENTED.										
1017	820211	DMD	2	820421	TES	ER/C	PG&E	PPR		DG OIL PRIMING TANK SG WEIGHT, TURBINE BLDG.
COMMENT: THE WEIGHT OF THE SIGHT-GLASS LEVEL INDICATOR AS USED BY PG&E IS LESS THAN THE ACTUAL WEIGHT. RLCA ANALYSIS SHOWS AN INSIGNIFICANT CHANGE IN THE RESULTS WITH THE CORRECT WEIGHT. THERE IS LACK OF PROPER DOCUMENTATION FOR THE WEIGHT ASSUMED BY PG&E.										
1017	820211	DMD	3	820709	TES	CR	NONE	PPR	NO	DG OIL PRIMING TANK SG WEIGHT, TURBINE BLDG.
COMMENT: WGT. OF SIGHT GLASS INDICATOR USED IN ANAL. IS LESS THAN ACTUAL WGT. ; CALC. RESULTS ARE LESS THAN HALF THE ALLOWABLE. NO PHYSICAL MODIFICATIONS PER PG&E COMPL. SHT., 820601. ERROR CLASS C.										
1018	820218	DMD	0	820218	RLCA	OIR	RLCA	RCW		SUPPLY FAN S-31 SUPPORT
COMMENT: 2-1/2 INCH CHANNEL ON PG&E DRAWING IS SHOWN AS 4 INCH CHANNEL IN BUFFALO FORGE AND EDS NUCLEAR CALCULATIONS.										
1018	820218	DMD	1	820419	RLCA	PPRR/DEV	TES	RCW		SUPPLY FAN S-31 SUPT
COMMENT: RLCA FIELD INSPECTION SHOWS CHANNEL TO BE 4 INCHES. PG&E TO REVISE DRAWINGS.										
1018	820218	DMD	2	820511	TES	PRR/DEV	PG&E	RCW		SUPPLY FAN S-31 SUPPORT
COMMENT: RLCA FIELD INSPECTION SHOWS CHANNEL TO BE 4 INCHES. PG&E TO REVISE DRAWINGS.										
1018	820218	DMD	3	820713	TES	CR	NONE	RCW	NO	SUPPLY FAN S-31 SUPPORT.
COMMENT: 2-1/2" CHANNEL ON PG&E DRAWING AS SHOWN AS A 4" CHANNEL IN BUFFALO FORGE AND EDS NUCLEAR CALCULATIONS. RLCA FIELD INSPECTION SHOWS CHANNEL TO BE 4 IN. PG&E TO REVISE DRAWINGS. DEVIATION.										
1019	820218	OD	0	820218	RLCA	OIR	RLCA	RDF		CVCS SYSTEM SEPERATOR/STABILIZER DOCUMENTATION
COMMENT: RLCA UNABLE TO OBTAIN INFORMATION FOR SHELL & SKIRT THICKNESS, NOZZLE DIAMETERS AND THICKNESS, AND SUPPORT CONFIGURATION FOR SEPARATOR/STABILIZER IN THE CVCS SYSTEM, RLCA TO USE PG&E MODEL OF COMPONENT ON A PROVISIONAL BASIS.										
1019	820218	OD	1	820318	RLCA	PPRR/CI	TES	RDF		CVCS SYS SEPARATOR/STABILIZER DOCUMENTATION
COMMENT: PG&E TRANSMITTED THE REQUIRED DRAWINGS.										
1019	820218	OD	2	820409	TES	CR	NONE	RDF	NO	CVCS SYSTEM SEPARATOR/STABILIZER IN THE CVCS.
COMMENT: RLCA WAS UNABLE TO OBTAIN DOCUMENTATION FOR THE FOLLOWING ITEMS NECESSARY TO MODEL THE SEPARATOR/STABILIZER IN THE CVCS SYSTEM FOR THE PIPING ANALYSIS: SHELL & SKIRT THICKNESS, NOZZLE DIAMETER AND THICKNESS,AND SUPPORT CONFIGURATION. THIS INFORMATION WAS SENT BY PG&E TO RLCA.										
1020	820218	SID	0	820218	RLCA	OIR	RLCA	JCT		AUX SALTWATER PUMP PRELIM SPECT.INTAKE STRU
COMMENT: PRELIMINARY SPECTRA USED, PG&E FILE 116.31, 771227.										
1020	820218	SID	1	820317	RLCA	PPRR/DEV	TES	JCT		AUX SALTWATER PUMP PRELIM SPECT.INTAKE STRUCT
COMMENT: PRELIMINARY SPECTRA IDENTICAL TO HOSGRI SPECTRA. RLCA P105-4-550-006.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1020	820218	SID	2	820417	TES	PRR/DEV	PG&E JCT			AUX SALTWATER PUMP PRELIM SPECT.INTAKE STRUCT.
COMMENT: PRELIMINARY SPECTRA IDENTICAL TO MOSGRI SPECTRA CONFIRMED, TES TRIP REPORT NO 1449.										
1020	820218	SID	3	820629	TES	CR	NONE JCT	NO		AUX SALTWATER PUMP PRELIM SPECT.INTAKE STRUCT.
COMMENT: UNCONTROLLED PRELIMINARY SPECTRA USED TO QUALIFY PUMP, PG&E FILE 116.3, 771227. IDENTICAL TO MOSGRI SPECTRA,PG&E COMPLETION REPORT 820601. DEVIATION.										
1021	820218	OD	0	820218	RLCA	OIR	RLCA RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: PG&E PIPING ANALYSIS 4.3 SHOWS COMPONENT COOLING WATER HEAT EXCHANGER AS RIGID; MOSGRI (TABLE 7-5) LISTS NATURAL FREQ. OF 9 Hz. (HORIZONTAL AND VERTICAL) FOR THIS HX. THE MODELING OF A NONRIGID PIECE OF EQUIPMENT AS A RIGID ANCHOR MAY NOT BE CONSERVATIVE.										
1021	820218	OD	1	820430	RLCA	PPRR/OIP	TES RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: PER PG&E SEMI-MONTHLY OPEN ITEM #22- PG&E WILL EXAMINE THE RIGID MODELING OF THE CCWHX IN THE PIPING ANALYSIS.										
1021	820218	OD	2	820510	TES	PRR/OIP	PG&E RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: ITR-1, 3.2.4 PG&E PIPING ANALYSIS 4-3 DATED 1/30/80, MOSGRI REPORT TABLE 7-5, THE NATURAL FREQUENCY OF THE CCW HEAT EXCHANGER IS LESS THAN THE MINIMUM REQUIREMENT FOR PIPING MODEL TERMINATION. PG&E SHOULD EXAMINE THIS PROBLEM.										
1021	820218	OD	3	820910	TES	OIR	RLCA RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: BASED ON PG&E PRESENTATIONS (AUGUST 6,1982 AND AUGUST 26, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, TES AND RLCA WILL RECONSIDER COMBINING THIS FILE WITH FILES 961,1058,1059 & 1098 INTO ONE ERROR CLASS A OR B FILE.										
1021	820218	OD	4	820913	RLCA	PPRR/CI	TES RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: BASED ON PG&E PRESENTATIONS (AUG 6 AND AUG 26, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINED WITH FILES 961, 1058, 1059, AND 1098 INTO ONE ERROR CLASS A OR B FILE. SEE FILE 1098 FOR ERROR REPORT.										
1021	820218	OD	5	820921	TES	PRR/CI	TES RDF			CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: PG&E PIPING ANALYSIS 4-3(800130), MOSGRI REPORT TABLE 7-5, THE NATURAL FREQUENCY OF THE CCW HEAT EXCHANGER IS LESS THAN THE MINIMUM REQUIREMENT OF PIPING MODEL TERMINATION. THIS FILE HAS BEEN COMBINED INTO FILE 1098 AND HAS BEEN DESIGNATED AS ERROR A/B.										
1021	820218	OD	6	820921	TES	CR	NONE RDF	NO		CCWHX ANALYSIS AS RIGID ANCHOR. TURBINE BLDG.
COMMENT: PG&E PIPING ANAL #4-3(REV 16,3/4/80)REPRESENTS THE COMPONENT COOLING WATER HEAT EXCH. AS A RIGID ANCHOR. THE MOSGRI RPT. (TABLE 7-5)LISTS NATURAL FREQ. OF 9 HERTZ(HORIZ & VERT)FOR THIS HEAT EXCH.THE MODELING OF A NONRIGID PIECE OF EQUIP.AS A RIGID ANCHOR MAY NOT BE CONSERVATIVE. THIS FILE COMB.INTO FILE 1098 & DESIGNATED AS ERROR A/B.										
1022	820218	SID	0	820218	RLCA	OIR	RLCA RDC			INTAKE STRUCTURE REEVALUATION.
COMMENT: SPECTRA AT 2.1' USED 8'-9".SPECTRA APPLICABLE AT A LEVEL TEN FEET. BELOW UPPER PUMP SUPPORT WERE USED; NOT CONSERVATIVE.										
1022	820218	SID	1	820430	RLCA	PPRR/OIP	TES RDC			INTAKE STRUCTURE REEVALUATION.
COMMENT: PG&E TO EVALUATE SPECTRA USED.										
1022	820218	SID	2	820510	TES	PRR/OIP	PG&E RDC			INTAKE STRUCTURE REEVALUATION.
COMMENT: ITR-1 3.5.5.4 AND 3.9.4 PG&E ASSEMBLE SPECTRA.SPECTRA AT 2.1' USED 8'-9".SPECTRA APPLICABLE AT A LEVEL TEN FEET. BELOW UPPER PUMP SUPPORT WERE USED; NOT CONSERVATIVE. PG&E TO EVALUATE SPECTRA USED.										
1022	820218	SID	3	820903	TES	OIR	RLCA RDC			INTAKE STRUCTURE REEVALUATION.
COMMENT: COMBINE WITH FILES 967 & 988 RELATIVE TO EVALUATION OF INTAKE STRUCTURE SEISMIC SPECTRA. PG&E TO REANALYZE INTAKE STRUCTURE.										
1022	820218	SID	4	820907	RLCA	PER/AB	TES RDC			INTAKE STRUCTURE REEVALUATION.
COMMENT: REANALYSIS OF INTAKE STRUCTURE PERFORMED BY PG&E, 820806 & 820901. COMBINE THIS ITEM WITH EDI 967 & 988.										
1022	820218	SID	5	820910	TES	ER/AB	PG&E RDC	YES		INTAKE STRUCTURE REEVALUATION.
COMMENT: SPECTRA AT 2.1' USED 8'-9".SPECTRA APPLICABLE AT A LEVEL TEN FEET. BELOW UPPER PUMP SUPPORT WERE USED; NOT CONSERVATIVE. INTAKE STRUCTURE IN REANALYSIS IN PG&E INTERNAL TECHNICAL PROGRAM COMBINE EDI 967 & 988 IN TO 1022.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1022		0	6	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										
1022		0	7	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										
1022		0	8	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										
1022		0	9	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										
1023	820219	OD	0	820219	RLCA	OIR	RLCA	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: PG&E DWG. 447119, REV.12 AND PIPING SCHEM. 102003, SHEET 4, REV.9 REFERS TO ITEM 15 ON 102039. THIS DWG.102039, SHT. 41, REV.9 SHOWS 3 IN. VELAN VALVE TO BE DESCRIBED ON DWG. 663317-52. ONLY 4 & 6 IN. VELAN VALVES ARE DESCRIBED HERE.										
1023	820219	OD	1	820322	RLCA	PPRR/DEV	TES	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: RLCA RECOMMENDED PG&E CHECK DOCUMENTATION ON ALL VALVES. FOLLOWING PG&E ACTION, RLCA WILL SELECTIVELY VERIFY VALVE DOCUMENTATION.										
1023	820219	OD	2	820417	TES	PRR/OIP	PG&E	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: PG&E TO CHECK THE DOCUMENTATION ON ALL VALVES. FOLLOWING PG&E ACTION, RLCA WILL SELECTIVELY VERIFY VALVE DOCUMENTATION.										
1023	820219	OD	3	820707	TES	CIR	RLCA	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: ITR-1, 3.2.4, RLCA TO REVIEW INFORMATION SENT BY PG&E IN RESPONSE TO RLCA'S 820414 REQUEST.										
1023	820219	OD	4	820713	RLCA	PPRR/CI	TES	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: DELETE FROM ITR-1, 3.2.4, RLCA HAS REVIEWED THE INFORMATION REQUIRED TO MODEL THE AFW VALVE.										
1023	820219	OD	5	820717	TES	PRR/CI	TES	RDF		3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: DC 66317-52-1, DC663317-4-3, 102003, SHEET 4, REV.9, PG&E VALVE INVENTORY NO. 102039, PG&E PIPING ISO 447119,REV.12, RLCA HAS RECEIVED THE INFORMATION REQUIRED TO MODEL THE AFW VALVE.										
1023	820219	OD	6	820717	TES	CR	NONE	RDF	NO	3" VALVE DOCUM. LINES 577 & 578, AUX. BLDG.
COMMENT: RLCA WAS NOT ABLE TO OBTAIN INFORMATION FOR A 3 IN. VELAN VALVE. THIS VALVE IS REFERED TO AS ITEM 15 ON THE AUX. FW.ISO 447119 REV.12. THE REQUIRED VALVE DRAWING 663317-4-3 WAS LATER SENT BY PG&E TO RLCA.										
1024	820220	FID	0	820220	RLCA	OIR	RLCA	RDF		PIPE SUPT. MOMEN.LINE 1917,AUX BUILDING.
COMMENT: PG&E MAKE-UPWATER ISO 449317, REV.3 MISLABELS SUPPORT 85S-40V AS 85S-40R.										
1024	820220	FID	1	820520	RLCA	PPRR/CI	TES	RDF		PIPE SUPT. MOMEN.LINE 1917,AUX BUILDING.
COMMENT: SEVERAL LINES ARE SUPPORTED BY THIS RESTRAINT: 5 RIGID AND ONE BY A SPRING HANGER. THIS ITEM WILL BE COVERED BY A REVIEW OF THE 79-14 PROGRAM.										
1024	820220	FID	2	820607	TES	PRR/CI	TES	RDF		PIPE SUPT. MOMEN.LINE 1917,AUX BUILDING.
COMMENT: PG&E PIPING ISO 449317, REV.3 PG&E DRAWING 049272, SHEETS 44,44A,45 THROUGH 45D.SUPPORT DW IS LABELED 85S-40V (SPRING HANGER) YET SUPPORT IS ACTUALLY A RIGID Y FOR LINE 1917-4. SEVERAL LINES ARE SUPPORTED BY THIS RESTRAINT: 5 RIGIDLY AND ONE BY SPRING HANGER.THIS ITEM WILL BE COVERED BY A REVIEW OF THE 79-14 PROGRAM.										
1024	820220	FID	3	820607	TES	CR	NONE	RDF	NO	PIPE SUPT. MOMEN.LINE 1917,AUX BUILDING.
COMMENT: ISO 449317 R3 SHOWS SUPPORT 85S/40R (RIGID). THE DESIGN ANALYSIS FOR THIS SUPPORT IS LABELED 80S/40V (SPRING). SEVERAL LINES ARE SUPPORTED BY THIS RESTRAINT: 5 RIGIDLY AND ONE BY SPRING. DRAWING 049272 SHT. 44,44A,45A THRU 45D CONFIRMS SUPPORT FUNCTION. CLOSED ITEM.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1025	820220	OD	0	820220	RLCA	OIR	RLCA	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: THE HOSGRI REPORT DOES NOT INCLUDE VERTICAL SPECTRA FOR THE TURBINE BUILDING EL. 104' BENTS 16-20. SPECTRA FOR THE CARDOX TANK SUPPORT MAY NOT BE APPLICABLE FOR THE ENTIRE REGION BENTS 16-20.										
1025	820220	OD	1	820322	RLCA	PPRR/OIP	TES	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: RLCA RECOMMENDS THAT PG&E ASSEMBLE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										
1025	820220	OD	2	820417	TES	PRR/OIP	PG&E	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: ITR-1,3.2.4 AND 3.9.4 . PG&E TO ASSEMBLE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										
1025	820220	OD	3	820720	TES	OIR	RLCA	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: BASED ON THE TURBINE BUILDING REEVALUATION (AS-BUILT VS. ANALYSIS) BEING DONE IN THE PG&E INTERNAL TECHNICAL PROGRAM AS PRESENTED ON JULY 14-16, 1982, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.										
1025	820220	OD	4	820721	RLCA	PPRR/CI	TES	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: RLCA RECOMMENDS EOI 1025 BE COMBINED INTO EOI 1026.										
1025	820220	OD	5	820723	TES	PRR/CI	TES	RDC		TURBINE BUILDING ELEVATION 104'.
COMMENT: DELETE FROM ITR-1. THIS FILE IS COMBINED INTO EOI 1026 (ER/AB).										
1025	820220	OD	6	820723	TES	CR	NONE	RDC	NO	TURBINE BUILDING ELEVATION 104'.
COMMENT: THE HOSGRI REPORT DOES NOT INCLUDE VERTICAL SPECTRA FOR THE TURBINE BLDG.EL. 104' BENTS 16-20. SPECTRA FOR THE CARDOX TANK SUPPT. MAY NOT BE APPLICABLE FOR THE ENTIRE REGION BENTS 16-20. BASED ON PG&E ITP, THIS FILE IS COMBINED INTO EOI 1026 (ER/AB).										
1026	820220	SID	0	820220	RLCA	OIR	RLCA	RDC		TURB. BLDG. SPECTRA FOR CL.1 ELEC. CONDUIT.
COMMENT: THE HOSGRI REPORT DOES NOT INCLUDE SPECTRA FOR SEVERAL AREAS OF THE TURBINE BUILDING THAT SUPPORT CLASS I ELECTRICAL CONDUIT. THE MARCH 1980 BLUME TURBINE BUILDING REPORT CONTAINS SPECTRA FOR THESE AREAS.										
1026	820220	SID	1	820319	RLCA	PPRR/DEV	TES	RDC		TURB. BLDG. SPECTRA FOR CL.1 ELEC. CONDUIT.
COMMENT: RLCA RECOMMENDS THAT PG&E ASSEMBLE THE LATEST URS/BLUME SPECTRA AND CHECK ALL QUALIFICATIONS AGAINST THIS SPECTRA.										
1026	820220	SID	2	820417	TES	PRR/OIP	PG&E	RDC		TURB. BLDG. SPECTRA FOR CL.1 ELEC. CONDUIT.
COMMENT: ITR-1, 3.9.4 . PG&E TO ASSEMBLE SPECTRA FOR CLASS 1 ELECTRICAL CONDUITMENT.										
1026	820220	SID	3	820720	TES	OIR	RLCA	RDC		TURB. BLDG. SPECTRA FOR CL.1 ELEC.EQUIP.
COMMENT: BASED ON THE TURBINE BUILDING REVIEW AND/OR REANALYSIS IN THE PG&E ITP AS PRESENTED ON JULY 14-16,1982, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.										
1026	820220	SID	4	820721	RLCA	PER/AB	TES	RDC		TURB. BLDG. REEVALUATION
COMMENT: RLCA RECOMMENDS THAT EOIS 982, 984, 989, 1010, AND 1025 BE COMBINED INTO THIS FILE.										
1026	820220	SID	5	820723	TES	ER/AB	PG&E	RDC		TURB. BLDG. REEVALUATION
COMMENT: DELETE FROM ITR-1. EOI'S 982, 984, 989, 1010,1025 ARE COMBINED INTO THIS FILE. ALL OF THESE EOI'S PERTAIN TO THE TURBINE BUILDING RESPONSE SPECTRA. PG&E ITP COVERS THE TURBINE BUILDING.										
1026	0		6	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										
1026	0		7	0						
COMMENT: SPACE RESERVED FOR LATER REVISION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1026	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1026	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1027	820223	FID	0	820223	RLCA	OIR	RLCA	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: FIGURE 4-166 IN THE HOSGRI REPORT SHOWS MODIFICATIONS TO THE FUEL HANDLING CRANE SUPPORT STRUCTURE. THIS FIGURE INDICATES SLOTTED BOLT HOLES TO PERMIT LATERAL MOVEMENT. PG&E DRAWING 451598 R.1 DOES NOT SHOW THE SLOTTED BOLT HOLES IN DETAILS 2, 4 AND 6.

1027	820223	FID	1	820607	RLCA	PPRR/OIP	TES	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: RLCA RECOMMENDS THAT PG&E TO PROVIDE DOCUMENTATION FOR HOSGRI REPORT FIG. 4-166.(NOTE: TES FIELD INSPECTION AND DWG REVIEW SHOWED THAT HOSGRI FIG. 4-166 NOT PERTINENT TO DETAILS 2, 4 & 6 OF DWG 451598-1.)

1027	820223	FID	2	820630	TES	PRR/OIP	PG&E	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: ITR-1, 3.1.4 . PG&E TO PROVIDE DOCUMENTATION FOR FIG. 4-166 IN HOSGRI REPORT.
ANY REANALYSIS OF FHB WILL BE REVIEWED BY IDVP TO INSURE CONFORMANCE WITH FIELD CONDITIONS.

1027	820223	FID	3	820720	TES	OIR	RLCA	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUXILIARY BUILDING AND FUEL HANDLING BUILDING ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

1027	820223	FID	4	820721	RLCA	PPRR/CI	TES	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: RLCA RECOMMENDS THAT THIS EOI BE COMBINED WITH EOI 1092 AS ER/A.

1027	820223	FID	5	820723	TES	PRR/CI	TES	RDC		FUEL HANDLING CRANE SUPPORT

COMMENT: DELETE FROM ITR-1. THIS FILE IS COMBINED INTO EOI 1092, WHICH ALSO PERTAINS TO THE FHB. EOI 1092 IS TO BE ISSUED AS ER/A. (NOTE: TES FIELD INSPECTION SHOWS BOLTS TIGHTENED - COULD BE A POSSIBLE FRICTION CONNECTION.)

1027	820223	FID	6	820723	TES	CR	NONE	RDC	NO	FUEL HANDLING CRANE SUPPORT

COMMENT: RLCA STATES THAT HOSGRI REPORT AND DESIGN DWG DON'T AGREE ON SLOTTED HOLES. TES FINDS NO DISCREPANCY BUT BOLTS MAY BE TIGHT ENOUGH FOR FRICTION CONNECTION. PG&E REANALYZING AND POSSIBLY MODIFYING IN ITP.
THIS FILE COMBINED INTO 1092 (ER/A).

1028	820223	DMD	0	820223	RLCA	OIR	RLCA	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: THE URS/BLUME AUXILIARY BUILDING REPORT-OCTOBER 1979-PAGE 14 APPEARS TO SPECIFY A METHODOLOGY FOR CALCULATING AH THAT DIFFERS FROM THE HOSGRI REPORT. IN THE 1979 BLUME REPORT, AN ADDITIONAL CO-DIRECTIONAL RESPONSE IS TO BE COMBINED WITH AH ON THE SRSS BASIS. (AH= MAXIMUM HORIZONTAL ACCELERATION)

1028	820223	DMD	1	820322	RLCA	PPRR/OIP	TES	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: RLCA SUGGESTS THAT PG&E CLEARLY DEFINE THE METHOD FOR COMBINING TORSION.

1028	820223	DMD	2	820417	TES	PRR/OIP	PG&E	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: FOLLOWING PG&E ACTION, RLCA AND TES WILL SELECTIVELY VERIFY THE APPLICABILITY OF THE NEW CONTROLLED SPECTRA AND TORSION COMBINATION METHODOLOGY.

1028	820223	DMD	3	820524	TES	OIR	RLCA	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: DCM NO.C17 WAS TRANSMITTED TO RLCA BY PG&E ON 5/6/82. RLCA TO REVIEW AND RECOMMEND RESOLUTION.
PG&E COMPLETION SHEET STATES THAT METHOD FOR COMBINING HORIZONTAL AND TORSIONAL MODES IS GIVEN IN DCM NO.C17.

1028	820223	DMD	4	820702	RLCA	PPRR/OIP	TES	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: RLCA FINDS THAT METHODS FOR COMBINING RESPONSES ARE GIVEN CLEARLY IN DCM NO.C17;HOWEVER,APPLICATION OF THE METHODS IS NOT SPECIFIED. REV. 1 OF DCM C-17 RECIEVED BY RLCA.

1028	820223	DMD	5	820713	TES	PRR/OIP	PG&E	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: PG&E DEFINE APPLICABILITY OF DCM C-17, REV. 1,

	REV. 0		LATEST REV.				ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1028	820223	DMD	6	830309	TES	OIR	RLCA	RDC		AUX. BLDG. - RESPONSE COMB.

COMMENT: RLCA TO REVIEW DCP COMPLETION SHEET, SIGNED 830225, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

1028	0		7	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1028	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1028	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1028	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1028	0		11	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1028	0		12	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1029	820225	DMD	0	820225	RLCA	DIR	RLCA	RDC		AUX BLDG-MODEL DISCREPANCIES

COMMENT: ITR-1, 3.1.4. RLCA AUX BLDG ANALYSIS NEEDED. DISCREPANCIES THAT DIFFER BY MORE THAN 15% ARE FOUND BETWEEN THE DYNAMIC MODEL PROPERTIES INDEPENDENTLY CALCULATED BY RLCA AND USED BY URS/BLUME.

1029	820225	DMD	1	820721	RLCA	PPRR/CI	TES	RDC		AUX BLDG-MODEL DISCREPANCIES

COMMENT: ITR-1, 3.1.4 RLCA AUX BUILDING ANALYSIS NEEDED. RLCA RECOMMENDS THIS EOI BE COMBINED WITH EOI 1097 (ER/AB).

1029	820225	DMD	2	820722	TES	PRR/CI	TES	RDC		AUX BLDG-MODEL DISCREPANCIES

COMMENT: DELETE FROM ITR-1, 3.1.4 . BASED ON PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THE AUXILIARY BUILDING IS BEING COMPLETELY REANALYZED. THIS FILE COMBINED INTO EOI 1097 (ER/AB).

1029	820225	DMD	3	820722	TES	CR	NONE	RDC	NO	AUX BLDG-MODEL DISCREPANCIES

COMMENT: RLCA AUX BUILDING ANALYSIS NEEDED. DISCREPANCIES THAT DIFFER BY MORE THAN 15% ARE FOUND BETWEEN THE DYNAMIC MODEL PROPERTIES INDEPENDENTLY CALCULATED BY RLCA AND USED BY URS/BLUME. THIS EOI IS COMBINED WITH EOI 1097 AS AN ERROR CLASS A OR B. CLOSED ITEM.

1030	820225	DMD	0	820225	RLCA	OIR	RLCA	PPR		BORIC ACID TANK ANALYSIS. AUXILIARY BUILDING.

COMMENT: (1) STRESSES DIFFER BY MORE THAN 15% ; (2) BUCKLING OF TANK SKIRT AND (3) SLOSHING LOADS ON ROOF NOT EVALUATED. (4) INCORRECT FORMULA USED TO EVALUATE SKIRT AREA ; STRESSES FROM ITEMS ARE LOW ; RLCA TO VERIFY OTHER HOSGRI TANKS NOT AFFECTED BY ITEMS.

1030	820225	DMD	1	820419	RLCA	PPRR/DEV	TES	PPR		BORIC ACID TANK ANALYSIS. AUXILIARY BUILDING.

COMMENT: ITEM (1) DIFFERENCE IN METHODS ; HAND VS COMPUTER ; ITEMS 2 & 3 LOW STRESSES, INSIGNIFICANT ; ITEM (4) ANALYSIS PACKAGE NOT PROPERLY LABELED.

1030	820225	DMD	2	820510	TES	PRR/DEV	PG&E	PPR		BORIC ACID TANK ANALYSIS. AUXILIARY BUILDING.

COMMENT: THE 15% DIFFERENCE IN STRESSES IS DUE TO THE DIFFERENCE IN METHODS, HAND CALCULATION VS COMPUTER MODEL. BUCKLING AND SLOSHING STRESSES, THOUGH NOT EVALUATED BY PG&E ARE VERY LOW. ANALYSIS PACKAGE WITH THE INCORRECT AREA FORMULA WAS NOT STAMPED SUPERSEDED.

1030	820225	DMD	3	820709	TES	CR	NONE	PPR	NO	BORIC ACID TANK ANALYSIS. AUXILIARY BUILDING.

COMMENT: STRESSES DIFFER BY MORE THAN 15% , BUCKLING OF TANK SKIRT WAS NOT EVALUATED, SLOSHING LOADS ON ROOF NOT EVALUATED, AND INCORRECT FORMULA USED TO CALCULATE AREA OF SKIRT. ALL DIFFERENCES ACCOUNTED FOR. NO PHYSICAL MODIFICATIONS PER PG&E COMPL. SHT. 820607. DEVIATION.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1031	820302	OD	0	820302	RLCA	OIR	RLCA	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: RLCA UNABLE TO OBTAIN DOCUMENTATION NECESSARY TO MODEL AUXILIARY FEEDWATER VALVES FCV-37 AND LCV-115.

1031	820302	OD	1	820318	RLCA	PPRR/CI	TES	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: RLCA RECOMMENDED PG&E CHECK DOCUMENTATION OF ALL VALVES. AT COMPLETION OF THIS TASK, RLCA WILL PERFORM ADDITIONAL SAMPLING. IN THE INTERIM, ASSUMPTIONS. RE. VALVE WEIGHTS AND CENTERS OF GRAVITY WILL BE MADE AND DOCUMENTED.

1031	820302	OD	2	820323	RLCA	PPRR/DEV	TES	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: RLCA RECOMMENDED PG&E CHECK DOCUMENTATION OF ALL VALVES. RLCA WILL SELECTIVELY VERIFY THE VALVE DOCUMENTATION.

1031	820302	OD	3	820417	TES	PRR/OIP	PG&E	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: PG&E TO CHECK THE DOCUMENTATION OF ALL VALVES. ADDITIONAL VERIFICATION REQUIRED. FOLLOWING THE PG&E ACTION, RLCA WILL SELECTIVELY VERIFY THE VALVE DOCUMENTATION.

1031	820302	OD	4	820707	TES	OIR	RLCA	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: RLCA HAD BEEN UNABLE TO OBTAIN DOCUMENTATION NECESSARY TO MODEL VALVES FCV-37 AND LCV-115. PG&E COMPLETION SHEET DATED 820621 SUGGESTS THAT PG&E HAS PROVIDED THE NEEDED INFORMATION. RLCA TO REVIEW AND SUBMIT RECOMMENDATION.

1031	820302	OD	5	820710	RLCA	PPRR/CI	TES	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: PG&E HAS PROVIDED INFORMATION FOR VALVES FCV-37 AND LCV-115. THIS INFORMATION WAS VERIFIED AND SUPPLEMENTED BY RLCA FIELD WORK.

1031	820302	OD	6	820717	TES	PRR/CI	TES	RDF		VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: DELETE FROM ITR-1 3.2.4 RLCA LETTER DATED 2/4/82 (RLCA FILE #P105-4-620-184). RLCA LETTER DATED 2/9/82 (RLCA FILE #P105-4-620-210). RLCA FILE #P105-4-432-051. INFORMATION REQUESTED BY RLCA HAS BEEN PROVIDED BY PG&E.

1031	820302	OD	7	820717	TES	CR	NONE	RDF	NO	VALVES FCV-37 & LCV115,LINES 593 & 577/578,AUX. B.

COMMENT: RLCA WAS UNABLE TO OBTAIN DOCUMENTATION NECESSARY TO MODEL VALVES FCV-37 & LCV-115 PG&E COMPLETION SHEET DATED 820621 INDICATED THAT PG&E HAS PROVIDED RLCA THE NEEDED INFORMATION. RLCA LATER INDICATED INFORMATION WAS, IN FACT SUPPLIED BY PG&E. CLOSED ITEM.

1032	820302	FID	0	820302	RLCA	OIR	RLCA	RDF		CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: SUPPORT 73/70R SHOWN ON PG&E CVC ISO 446544, REV.1 AND PG&E DWG. 049269, SHEET 83,REV.1/ IS DESIGNED AS AXIAL SUPPORT. SUPPORT IS DESIGNED WITH ZERO CLEARANCE IN ONE HORIZONTAL (WEST) DIRECTION.

1032	820302	FID	1	820519	RLCA	PPRR/DEV	TES	RDF		CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: RLCA ANALYSIS 102 SHOWS SEISMIC MOVEMENTS IN E-W DIRECTION OF 0.0281 IN. THIS MOVEMENT IS LESS THAN NORMAL SUPPORT GAP TOLERANCE OF 1/16 IN.

1032	820302	FID	2	820629	TES	OIR	RLCA	RDF		CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: TES DOES NOT AGREE WITH RLCA RECOMMENDATION THAT THIS ITEM IS A DEVIATION. RECOMMENDS RLCA REVIEW THERMAL MOVEMENTS IN E-W DIRECTION TO DETERMINE IF PIPE MOVES SUFFICIENTLY FROM SUPPORT TO BECOME INACTIVE IN E-W DIRECTION.

1032	820302	FID	3	820702	RLCA	PPRR/CI	TES	RDF		CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: PG&E THERMAL ANALYSIS 196P SHOWS A THERMAL MOVEMENT OF 0.171" IN THE EAST DIRECTION. IN HOT POSITION, SEISMIC MOVEMENTS IN E-W DIRECTION WILL BE LESS THAN CLEARANCE.

1032	810302	FID	4	820707	TES	PRR/CI	TES	RDF		CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: PG&E PIPING ISC 446544, REV.1. PG&E LETTER DCVP-RLCA-27 DATED 3/23/82. PG&E PIPING ANALYSIS 8-24,RLCA PIPING ANALYSIS RLCA 102,SEQUENCE #K15TLIR & K15TN87. PG&E SUPPORT DRAWING 049269, SHEET 83, REV.1. IN THE HOT POSITION, THE SEISMIC MOVEMENTS IN THE E-W DIRECTION WILL BE LESS THAN THE CLEARANCE.

1032	810302	FID	5	820707	TES	CR	NONE	RDF	NO	CVC SUPT. 73/70R DIREC. LINE 44, AUX. BUILDING.

COMMENT: SUPT. 73/70R ON CVC ISO 446544 R1 AND ANALYSIS 8-24 IS DESIGNATED AS AN MS SUPT. DRAW. 049269 SHT 83 ALSO SHOWS NO GAP IN WEST DIRECTION. PIPE MOVES 0.171 INCHES EAST IN THERMAL ANALYSIS 196P AND 0.0281 INCHES EW SEISMICLY IN RLCA 102(K15TLIR). IN HOT POSITION, SEISMIC EW MOVEMENTS WILL BE LESS THAN CLEARANCE. CLOSED ITEM.

1033	820302	QAR	0	820302	RLCA	OIR	TES	MAR		EES (CYGNA) QA-OBSERVATIONS

COMMENT: RECORDS FOR QA PERSONNEL DO NOT ADDRESS AUDITOR TRAINING AND QUALIFICATION.

	REV. 0		LATEST REV.				ACTION		PG&E	
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1033	820302	QAR	1	820306	RLCA	PPRR/CI	TES	NAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1033	820302	QAR	2	820409	TES	CR	NONE	NAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: RECORDS FOR QA PERSONNEL DO NOT ADDRESS AUDITOR TRAINING AND QUALIFICATION. NO SERIES 3000 EOI WAS ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1034	820302	QAR	0	820302	RLCA	OIR	TES	NAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: REVISIONS TO QA MANUAL WERE NOT FORMALLY ISSUED TO PROJECT ENGINEER.										
1034	820302	QAR	1	820306	RLCA	PPRR/CI	TES	NAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1034	820302	QAR	2	820409	TES	CR	NONE	NAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: REVISIONS TO QA MANUAL WERE NOT FORMALLY ISSUED TO PROJECT ENGINEER. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1035	820302	QAR	0	820302	RLCA	OIR	TES	NAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: AUDITS CONDUCTED BY EES WERE NOT TIMELY AND COMPREHENSIVE. NO EVIDENCE OF EFFECTIVE CORRECTIVE ACTION PROGRAM.										
1035	820302	QAR	1	820306	RLCA	PPRR/CI	TES	NAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1035	820302	QAR	2	820409	TES	CR	NONE	NAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: AUDITS CONDUCTED BY EES WERE NOT TIMELY AND COMPREHENSIVE. NO EVIDENCE OF EFFECTIVE CORRECTIVE ACTION PROGRAM. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1036	820302	QAR	0	820302	RLCA	OIR	TES	NAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: NO IMPLEMENTING QA PROCEDURES EXISTED.										
1036	820302	QAR	1	820306	RLCA	PPRR/CI	TES	NAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1036	820302	QAR	2	820409	TES	CR	NONE	NAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: NO IMPLEMENTING QA PROCEDURES EXISTED. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1037	820302	QAR	0	820302	RLCA	OIR	TES	NAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: NO FORMAL METHOD OF DOCUMENTING COMPUTER PROGRAM VERIFICATION EXISTED.										
1037	820302	QAR	1	820306	RLCA	PPRR/CI	TES	NAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1037	820302	QAR	2	820409	TES	CR	NONE	NAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: NO FORMAL METHOD OF DOCUMENTING COMPUTER PROGRAM VERIFICATION EXISTED. NO SERIES 3000 EOI ISSUED SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1038	820302	QAR	0	820302	RLCA	OIR	TES	NAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: MANAGEMENT REVIEWS OF QA PROGRAM WERE NOT CONDUCTED QUARTERLY, AS REQUIRED BY THE QA PROGRAM.										

FILE NO.	REV. 0 DATE	BASIS	REV.	LATEST REV. DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1038	820302	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1038	820302	QAR	2	820409	TES	CR	NONE	MAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: MANAGEMENT REVIEWS OF QA PROGRAM WERE NOT CONDUCTED QUARTERLY, AS REQUIRED BY THE QA PROGRAM. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1039	820302	QAR	0	820302	RLCA	OIR	TES	MAR		EES (CYGNA) QA-OBSERVATIONS
COMMENT: A REFERENCED CRITERIA, PG&E LETTER 760816 COULD NOT BE LOCATED.										
1039	820302	QAR	1	820306	RLCA	PPRR/CI	TES	MAR		EES (CYGNA) QA OBSERVATIONS
COMMENT: NO CORRECTIVE ACTION REQUIRED.										
1039	820302	QAR	2	820409	TES	CR	NONE	MAR	NO	EES (CYGNA) QA-OBSERVATIONS
COMMENT: A REFERENCED CRITERIA, PG&E LETTER 760816 COULD NOT BE LOCATED. NO SERIES 3000 EOI ISSUED BY TES SINCE THIS WAS NOT A QA FINDING. CLOSED ITEM.										
1040	820302	QAR	0	820302	RLCA	OIR	TES	MAR		EES (CYGNA) QA-FINDINGS
COMMENT: INADEQUATE METHOD OF CONTROLLING MEMORANDA WHICH COULD HAVE HAD AN IMPACT ON DESIGN WORK. NO MEANS OF EVALUATING THEIR IMPACT ON OTHER POSSIBLY RELATED CRITERIA/DOCUMENTS.										
1040	820302	QAR	1	820310	RLCA	PPRR/CI	TES	MAR		EES (CYGNA) QA FINDING
COMMENT: NO CORRECTIVE ACTION REQUIRED. TO BE REPLACED BY EOI-3001.										
1040	820302	QAR	2	820524	TES	CR	NONE	MAR	NO	EES (CYGNA) QA-FINDINGS
COMMENT: INADEQUATE METHOD OF CONTROLLING MEMORANDA WHICH COULD HAVE HAD AN IMPACT ON DESIGN WORK. NO MEANS OF EVALUATING THEIR IMPACT ON OTHER POSSIBLY RELATED CRITERIA/DOCUMENTS. REPLACED BY EOI 3001. CLOSED ITEM.										
1041	820302	QAR	0	820302	RLCA	OIR	TES	MAR		EES (CYGNA) QA-FINDINGS
COMMENT: NO FORMAL INTERFACE CONTROL PROGRAM EXISTED, RESULTING IN A LACK OF CONSISTENT CONTROL.										
1041	820302	QAR	1	820310	RLCA	PPRR/CI	TES	MAR		EES (CYGNA) QA FINDING
COMMENT: NO CORRECTIVE ACTION REQUIRED. TO BE REPLACED BY EOI-3001.										
1041	820302	QAR	2	820524	TES	CR	NONE	MAR	NO	EES (CYGNA) QA-FINDINGS
COMMENT: NO FORMAL INTERFACE CONTROL PROGRAM EXISTED, RESULTING IN A LACK OF CONSISTENT CONTROL. REPLACED BY EOI 3001. CLOSED ITEM.										
1042	820302	QAR	0	820302	RLCA	OIR	TES	MAR		ANCO QA-FINDINGS
COMMENT: Q.A PROGRAM NOT IMPLEMENTED FOR WORK PERFORMED PRIOR TO JUNE 1978.										
1042	820302	QAR	1	820310	RLCA	PPRR/CI	TES	MAR		ANCO QA FINDING
COMMENT: NO CORRECTIVE ACTION REQUIRED. TO BE REPLACED BY EOI-3002.										
1042	820302	QAR	2	820524	TES	CR	NONE	MAR	NO	ANCO QA-FINDINGS
COMMENT: Q.A PROGRAM NOT IMPLEMENTED FOR WORK PERFORMED PRIOR TO JUNE 1978. REPLACED BY EOI 3002. CLOSED ITEM.										
1043	820308	FID	0	820308	RLCA	OIR	RLCA	RCW		PIPE SUPPORTS 512/7R & 5126R LOCATION
COMMENT: PG&E D.R. ISO SHOWS SUPPORTS 512/7R & 512/6R ON LINES S6-3674-2 & S6-1478-2 RESPECTIVELY. RLCA FIELD INSPECTION SHOWS SUPPORTS 512/8R AND 512/7R ON THESE LINES IN THE PRECEEDING RESPECT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
1043	820308	FID	1	820322	RLCA	PPRR/DEV	TES	RCW		PIPE SUPT 512/7R & 512/6R LOCATION
COMMENT: PG&E RECOMMENDED TO REVIEW ALL "AS BUILT" DOCUMENTATION OF HANGER LOCATIONS. RLCA WILL THEN SELECTIVELY VERIFY HANGER LOCATION DOCUMENTATION.										
1043	820308	FID	2	820417	TES	PRR/OIP	PG&E	RCW		PIPE SUPPORTS 512/7R & 512/6R LOCATION
COMMENT: PG&E RECOMMENDED TO REVIEW ALL "AS-BUILT" DOCUMENTATION OF HANGER LOCATIONS. RLCA WILL THEN SELECTIVELY VERIFY HANGER LOCATION DOCUMENTATION.										
1043	820308	FID	3	820713	TES	OIR	RLCA	RCW		PIPE SUPPORTS 512/7R & 512/6R LOCATION.
COMMENT: ITR-1 3.4.4. NOTES PG&E RESOLUTION SHEET 820611 STATES PG&E PREVIOUSLY PROVIDED RESOLUTION FOR RLCA TO REVIEW.										
1043	820308	FID	4	820717	RLCA	PPRR/DEV	TES	RCW		PIPE SUPPORTS 512/7R & 512/6R LOCATION.
COMMENT: REVS 0-3 INCORRECTLY NOTED LINES 3674 & 1478 INSTEAD OF 2047 & 2048. RLCA FIELD NOTES AGREE WITH PG&E SUPPORT ANALYSES. PG&E D.R. ISO DOES NOT AGREE WITH THE FIELD CONFIGURATION.										
1043	820308	FID	5	820728	TES	PRR/DEV	TES	RCW		PIPE SUPPORTS 512/7R & 512/6R LOCATION.
COMMENT: RLCA FIELD NOTES AGREE WITH PG&E SUPPORT ANALYSIS. PG&E D.R. ISO DOES NOT AGREE WITH FIELD CONFIGURATION.										
1043	820308	FID	6	820728	TES	CR	NONE	RCW	NO	PIPE SUPPORTS 512/7R & 512/6R LOCATION.
COMMENT: PG&E ISO SHOWS SUPPORTS ON LINES 56-374-2 AND 56-1478-2. RLCA FIELD INSPECTION SHOWS SUPPORTS 512/7R INCORRECTLY NOTED, LINES 3674 & 1478 INSTEAD OF 2047 & 2048. PG&E ANALYSIS AGREES WITH FIELD CONFIGURATION DEVIATION. BASED ON PG&E RESOLUTION SHEET 820611. DEVIATION.										
1044	820308	FID	0	820308	RLCA	OIR	RLCA	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: DESIGN REVIEW ISO SHOWS NO SUPPORTS; FIELD INSPECTION SHOWS SEVERAL SUPPORTS, ALL BUT ONE MARKED.										
1044	820308	FID	1	820322	RLCA	PPRR/DEV	TES	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: RLCA RECOMMENDS PG&E REVIEW ALL "AS-BUILT" HANGER DOCUMENTATION ; RLCA WILL SELECTIVELY VERIFY.										
1044	820308	FID	2	820417	TES	PRR/OIP	PG&E	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: PG&E REVIEW ALL "AS BUILT" HANGER DOCUMENTATION; RLCA WILL SELECTIVELY VERIFY.										
1044	820308	FID	3	820708	TES	OIR	RLCA	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: ITR-1 3.4.4 RLCA EVALUATE PG&E 820401 RESPONSE. PG&E RESOLUTION SHEET (820621) SUGGESTS THAT THEY RESPONDED ADEQUATELY AND THAT THIS FILE SHOULD BE CLOSED.										
1044	820308	FID	4	820717	RLCA	PPRR/CI	TES	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: PG&E SMALL BORE PIPING ISO SHOWS SUPPORTS INDICATED IN RLCA FIELD NOTES.										
1044	820308	FID	5	820811	TES	PRR/CI	TES	RCW		SMALL BORE LINES SUPPORT LOCATION
COMMENT: THE SMALL BORE PIPING ISO PROVIDED BY PG&E SHOWS THE SUPPORTS THAT ARE INDICATED BY RLCA FIELD NOTES. PG&E I&E 79-14 EFFORT WHICH RESULTED IN THE DESIGN REVIEW ISO WHICH WAS THE SUBJECT OF THE ORIGINAL EOI DID NOT INCLUDE LINES BELOW 2 1/2 INCHES IN DIAMETER.										
1044	820308	FID	6	820811	TES	CR	NONE	RCW	NO	SMALL BORE LINES SUPPORT LOCATION
COMMENT: DESIGN REVIEW ISO SHOWS NO SUPPORTS. FIELD INSPECTION SHOWS SEVERAL SUPPORTS ALL MARKED EXCEPT FOR ONE. PG&E SMALL BORE ISO SHOWS SUPPORTS LOCATED BY RLCA FIELD NOTES. PG&E I&E 79-14 EFFORT WHICH RESULTED IN DESIGN REVIEW ISO WHICH WAS SUBJECT OF ORIGINAL EOI DID NOT INCLUDE LINES BELOW 2 1/2 INCHES IN DIAMETER. CLOSED ITEM.										
1045	820308	FID	0	820308	RLCA	OIR	RLCA	RCW		SUPPORT 99/9R DIRECTION
COMMENT: ISO SHOWS SUPPORT TO BE 'Y','Z' RESTRAINT, FIELD INSPECTION SHOWS SUPPORT TO BE 'X','Y','Z' RESTRAINT.										
1045	820308	FID	1	820322	RLCA	PPRR/DEV	TES	RCW		SUPT 99/9R DIRECTION
COMMENT: RLCA RECOMMENDS PG&E REVIEW ALL "AS-BUILT" HANGER DOCUMENTATION ; RLCA WILL SELECTIVELY VERIFY.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1045	820308	FID	2	820322	TES	PRR/OIP	PG&E	RCW		SUPPORT 99/9R DIRECTION

COMMENT: PG&E TO REVIEW ALL 'AS BUILT' HANGER DOCUMENTATON. RLCA WILL SELECTIVELY VERIFY.

1045	820308	FID	3	820708	TES	OIR	RLCA	RCW		SUPPORT 99/9R DIRECTION

COMMENT: ITR-1 3.4.4 PG&E RESOLUTION SHEET DATED 820621 SUGGESTS THAT THE SUBJECT SUPPORT IS A 'Y','Z' RESTRAINT.

1045	820308	FID	4	820717	RLCA	PPRR/DEV	TES	RCW		SUPPORT 99/9R DIRECTION

COMMENT: DELETE FROM ITR-1 3.4.4 ISO DOES NOT REFLECT FIELD CONDITIONS; SUPPORT ANALYSIS REFLECTS FIELD CONDITION WITH RESPECT TO DIRECTIONS OF RESTRAINT.

1045	820308	FID	5	820728	TES	PRR/DEV	TES	RCW		SUPPORT 99/9R DIRECTION

COMMENT: RLCA, TES AND PG&E FIELD VERIFIED SUPPORT IN RESPONSE TO PG&E RESOLUTION SHEET, 820621. ANALYSIS REFLECTS FIELD CONDITION BUT ISO DOES NOT.

1045	820308	FID	6	820728	TES	CR	NONE	RCW	NO	SUPPORT 99/9R DIRECTION

COMMENT: ISO SHOWS SUPPORT TO BE 'Y','Z' RESTRAINT. RLCA FIELD INSPECTION SHOWS 'X','Y','Z'. PG&E ANALYSIS REFLECTS FIELD CONFIGURATION. DEVIATION.

1046	820308	FID	0	820308	RLCA	OIR	RLCA	RCW		SUPPORTS 99/7R & 99/9R DIMENSION

COMMENT: ISO SHOWS DISTANCE BETWEEN SUPPORTS IS 3'8"; FIELD INSPECTION SHOWS DISTANCE TO BE 3'; MORE THAN TOLERANCE.

1046	820308	FID	1	820322	RLCA	PPRR/DEV	TES	RCW		SUPTS. 99/7R & 99/9R DIMENSION

COMMENT: RLCA RECOMMENDS PG&E REVIEW ALL 'AS-BUILT' HANGER DOCUMENTATION; RLCA WILL SELECTIVELY VERIFY.

1046	820308	FID	2	820417	TES	PRR/OIP	PG&E	RCW		SUPPORTS 99/7R & 99/9R DIMENSION

COMMENT: PG&E TO REVIEW ALL 'AS BUILT' HANGER DOCUMENTATION. RLCA WILL SELECTIVELY VERIFY.

1046	820308	FID	3	820713	TES	OIR	RLCA	RCW		SUPPORTS 99/7R & 99/9R DIMENSION.

COMMENT: RLCA TO REVIEW PG&E RESOLUTION SHEET 820701.

1046	820308	FID	4	820717	RLCA	PPRR/DEV	TES	RCW		SUPPORTS 99/7R & 99/9R DIMENSION.

COMMENT: FIELD DIMENSION OF 3FT. ACCEPTABLE ACCORDING TO SPACING TABLES. DIMENSION IS SHOWN INCORRECTLY ON THE PG&E DRAWING.

1046	820308	FID	5	820728	TES	PRR/DEV	TES	RCW		SUPPORTS 99/7R & 99/9R DIMENSION.

COMMENT: FIELD DIMENSION OF 3FT. ACCEPTABLE ACCORDING TO SPACING TABLES. DIMENSION IS SHOWN INCORRECTLY ON THE PG&E DRAWING.

1046	820308	FID	6	820728	TES	CR	NONE	RCW	NO	SUPPORTS 99/7R & 99/9R DIMENSION.

COMMENT: PG&E ISO SHOWS DISTANCE BETWEEN SUPPORTS TO BE 3' 8". FIELD INSPECTION SHOWS DISTANCE TO BE 3'. EXCEEDS TOLERANCE 3' DIMENSION ACCEPTABLE ACCORDING TO SPACING TABLES. DEVIATION.

1047	820308	FID	0	820308	RLCA	OIR	RLCA	RCW		SMALL BORE LINES LOCATION

COMMENT: DESIGN REVIEW ISO SHOWS NO SUPPORTS; FIELD INSPECTION SHOWED THE LINES TO HAVE UNTAGGED SUPPORTS.

1047	820308	FID	1	820322	RLCA	PPRR/DEV	TES	RCW		SMALL BORE LINES LOCATION

COMMENT: RLCA RECOMMENDS PG&E TO REVIEW ALL 'AS-BUILT' HANGER DOCUMENTATION ; RLCA WILL SELECTIVELY VERIFY.

1047	820308	FID	2	820510	TES	PRR/OIP	PG&E	RCW		SMALL BORE LINES LOCATION

COMMENT: PG&E TO REVIEW ALL 'AS-BUILT' HANGER DOCUMENTATION, RLCA WILL SELECTIVELY VERIFY.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1047	820308	FID	3	820708	TES	OIR	RLCA	RCW		SMALL BORE LINES LOCATION
COMMENT: ITR-1 3.4.4 RLCA EVALUATE PG&E RESPONSE OF 820621. PG&E SAYS THEY HAVE RESPONDED TO RLCA REQUESTS AND FILE SHOULD BE CLOSED.										
1047	820308	FID	4	820911	RLCA	PPRR/CI	TES	RCW		SMALL BORE LINES LOCATION
COMMENT: THE SMALL BORE ISOMETRICS SUPPLIED BY PG&E SHOW THE SUPPORTS INDICATED BY RLCA FIELD NOTES.										
1047	820308	FID	5	821005	TES	PRR/CI	TES	RCW		SMALL BORE LINES LOCATION
COMMENT: THE SMALL BORE ISOMETRICS SUPPLIED BY PG&E SHOW THE SUPPORTS INDICATED BY RLCA FIELD NOTES.										
1047	820308	FID	6	821005	TES	CR	NONE	RCW	NO	SMALL BORE LINES LOCATION
COMMENT: LINES 32, 1550 AND 30 ARE SHOWN ON PG&E D.R. ISO TO HAVE NO SUPPORTS. RLCA FIELD INSPECTION SHOWED THESE LINE SEGMENTS TO HAVE UNTAGGED SUPPORTS. DETAILS OF SMALL BORE LINES, INCLUDING SUPPORT TYPE AND LOCATION ARE SHOWN ON SMALL BORE ISO'S NOT LARGE BORE D.R. ISO'S. SMALL BORE ISO'S SUPPLIED BY PG&E SHOW SUPPORTS INDICATED BY RLCA FIELD NOTES. CI.										
1048	820308	FID	0	820308	RLCA	OIR	RLCA	RDF		SUPT. 99/101R LOCATION.LINE 52, AUX. BUILDING.
COMMENT: LINE S6-52-3, ON PG&E CVC ISO 446548, REV.8 SHOWS UNRESTRAINED E-W PIPE SPAN THRU SUPPORT 99/101R TO BE 11 FT. 9 7/8 IN. FIELD INSPECTION SHOWS SPAN AS 12 FT. 2 IN. BOTH SPANS LARGER THAN ALLOWED BY PG&E DWG 049239 REV.3										
1048	820308	FID	1	820510	RLCA	PPRR/CI	TES	RDF		SUPT. 99/101R LOCATION.LINE 52, AUX. BUILDING.
COMMENT: LINE S6-52-3 HAS BEEN RIGOROUSLY ANALYZED (PG&E DESIGN ANALYSIS 9-23). NOT DESIGNED BY SPACING RULES.										
1048	820308	FID	2	820610	TES	PRR/CI	TES	RDF		SUPT. 99/101R LOCATION.LINE 52, AUX. BUILDING.
COMMENT: PG&E PIPING ANALYSIS 9-23 DATED 9/26/80. LINE HAS BEEN QUALIFIED BY RIGOROUS ANALYSIS. SPACING RULES ARE NOT APPLICABLE.										
1048	820308	FID	3	820610	TES	CR	NONE	RDF	NO	SUPT. 99/101R LOCATION.LINE 52, AUX. BUILDING.
COMMENT: CVC ISO 446548 R.8 SHOWS THE UNRESTRAINED EW PIPE SPAN THRU SUPPORT 99/101R TO BE GREATER THAN ALLOWED ON PG&E DRAWING 049239 REV.3 (SPACING TABLES). LINE S6-52-3 HAS BEEN RIGOROUSLY ANALYZED (9-23) NOT DESIGNED BY SPACING RULES. CLOSED ITEM.										
1049	820308	FID	0	820308	RLCA	OIR	RLCA	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: ANNUNCIATOR TYPEWRITER QUALIFIED TO IMPROPER SPECTRA. AUX. B. SPECTRA AT 140' WAS USED. CR VERTICAL SPECTRA HAS HIGHER ACCELERATIONS THAN AUX. B. AT THIS ELEVATION.										
1049	820308	FID	1	820416	RLCA	PPRR/OIP	TES	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: TYPEWRITER ACTUALLY LOCATED IN CONTROL ROOM; RLCA RECOMMENDS PG&E CLARIFY & SPECIFY APPROPRIATE SPECTRA.										
1049	820308	FID	2	820510	TES	PRR/OIP	PG&E	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: PG&E TO EITHER PROVIDE SPECTRA FOR ALL MODES SHOWN IN FINITE ELEMENT MODEL FOR CONTROL ROOM SPECTRA OR FURTHER CLARIFY THE BLUME REPORT TO SHOW THE 140FT. ELEVATION SPECTRA APPLICABLE TO THE TYPEWRITER LOCATION.										
1049	820308	FID	3	820524	TES	OIR	RLCA	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: TES AND RLCA TO REVIEW PG&E COMPL. PKGE.,820518.										
1049	820308	FID	4	820618	RLCA	PPRR/OIP	TES	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: UNIT 1 TYPEWRITER CONSIDERED QUALIFIED ON BASIS OF LOCATION NEAR COLUMN "K" RLCA RECOMMENDS PG&E REVISE DCM C-17 TO INDICATE EXPLICITLY THE APPLICABLE VERTICAL SPECTRA FOR ALL AREAS OF THE CR FLOOR SLAB.										
1049	820308	FID	5	820709	TES	PRR/OIP	PG&E	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: PG&E DETERMINE IF UNIT 2 TYPEWRITER REQUIRED FOR UNIT 1 SAFETY. UNIT 2 TYPEWRITER MAY NOT BE QUALIFIED. PG&E TASK 70135.										
1049	820308	FID	6	820723	TES	OIR	RLCA	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: RLCA & TES TO REVIEW PG&E RESOL. SHT. 810722. ITR-1, 3.6.4.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1049	820308	FID	7	820723	RLCA	PPRR/CI	TES	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: ITR-1, 3.6.4 UNIT 2 TYPEWRITER NOT REQUIRED FOR UNIT 1 SAFE OPERATION PER PG&E RESPONSE, P 105-4-1049-014. ITR-1 TO EXPRESS CONCERN RE: TEST PROCEDURE INPUTS. UNIT 1 TYPEWRITER SPECTRA ADEQUATE.										
1049	820308	FID	8	820723	TES	PRR/CI	TES	RRB		MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: UNIT 1 TYPEWRITER CONSIDERED QUALIFIED FOR LOCATION AT COLUMN 'K', UNIT 2 TYPEWRITER NOT REQUIRED FOR UNIT 1 SAFE OPERATION OR SHUTDOWN										
1049	820308	FID	9	820723	TES	CR	NONE	RRB	NO	MAIN ANNUNCIATOR TYPEWRITER SPEC.CONTROL ROOM.
COMMENT: ALTHOUGH UNIT 1 TYPEWRITER LOCATED AT 140 FT. WAS QUALIFIED WITH 104 FT. SPECTRA, ITS LOCATION AT COLUMN 'K' MAKES THE 104 FT. SPECTRA APPROPRIATE. THE UNIT 2 TYPEWRITER, LOCATED DIFFERENTLY IS NOT REQUIRED OF SAFE OPERATION OR SHUTDOWN OF UNIT 1. CLOSED ITEM.										
1050	820308	FID	0	820308	RLCA	OIR	RLCA	RDF		RHR LINE 279-8 INSULATION. AUXILIARY BUILDING.
COMMENT: PG&E RHR ISO 446524 REV.10 DOES NOT SHOW INSULATION BETWEEN VALVE 1-9003A AND SUPT. 57S/70V AND BETWEEN SUPPORTS 15/1SL AND 56S/30R ON LINE 279-8. RLCA FIELD INSPECTION DOES SHOW INSULATION IN THESE SECTIONS, PG&E IE BULLETIN 79-14 REQUIRES ALL INSULATION TO BE SHOWN ON ISO.										
1050	820308	FID	1	820430	RLCA	PER/C	TES	RDF		RHR LINE 279-8 INSULATION. AUXILIARY BUILDING.
COMMENT: DESIGN ANALYSIS 8-34 DOES NOT INCLUDE INSULATION ON CERTAIN SECTIONS OF LINE 279-8. RLCA 107 ANALYSIS INCLUDED INSULATION. THE DIFFERENCE OF INSULATION DOES NOT CAUSE AN OVERSTRESS.										
1050	820308	FID	2	820510	TES	ER/C	PG&E	RDF		RHR LINE 279-8 INSULATION. AUXILIARY BUILDING.
COMMENT: PG&E PIPING ISO 446542, REV.10 ; PG&E PIPING ANALYSIS 8-34 DATED 7/1/80. RLCA PIPING ANALYSIS RLCA 107 SEQUENCE #RT2YDGJ DATED 2/28/82. INSULATION IN FIELD. NOT ON ISO OR IN DESIGN ANALYSIS. ALL STRESS ARE BELOW ALLOWABLE.										
1050	820308	FID	3	820708	TES	CR	NONE	RDF	NO	RHR LINE 279-8 INSULATION. AUXILIARY BUILDING.
COMMENT: RHR ISO 446542 R10 AND PG&E ANALYSIS 8-34 SHOWS NO INSULATION ON LINE 279-8 BETWEEN VALVE 1-9003A AND SUPT. 57S/70V AND BETWEEN 15/1SL AND 56S/30R. INSULATION IN FIELD. RLCA 107 ANALYSIS (RTZYDGJ)SHOWS NO OVERSTRESS. ERROR CLASS 'C' NO PHYSICAL MODIFICATIONS PER PG&E RESOLUTION SHEET 820701.										
1051	820308	OD	0	820308	RLCA	OIR	RLCA	RDF		INSUL. SPEC. FOR LINES 264-8 & 2519-8,AUX.BLDG.
COMMENT: PG&E DWG 102040,REV.9, 6/22/81 INDICATES NO INSULATION REQUIRED ON LINES 264-8 & 2519-8. PG&E CONTAINMENT SPRAY ISO 446540, REV.9 SHOWS INSULATION SPECIFICATION FOR THESE LINES TO BE III P (PERSONNEL PROTECTION ONLY).										
1051	820308	OD	1	820520	RLCA	PPRR/CI	TES	RDF		INSUL. SPEC. FOR LINES 264-8 & 2519-8,AUX.BLDG.
COMMENT: P105-4-1051-003 (PG&E LETTER DCVP-RLCA-80 5-5-82): THE 79-14 DESIGN REVIEW ISOMETRIC CONTROLS IN THESE CASES.										
1051	820308	OD	2	820607	TES	PRR/CI	TES	RDF		INSUL. SPEC. FOR LINES 264-8 & 2519-8,AUX.BLDG.
COMMENT: PG&E PIPING ISO 446540, REV.9 ; PG&E DRAWING 102040, REV.9, 6/22/81. PG&E LETTER DCVP-RLCA-80 DATED 5/5/82. PER PG&E LETTER ABOVE, THE ISO MAY BE MODIFIED FOR INSULATION SPECIFICATION AND NOT REFLECTED ON DRAWING 102040.										
1051	820308	OD	3	820607	TES	CR	NONE	RDF	NO	INSUL. SPEC. FOR LINES 264-8 & 2519-8,AUX.BLDG.
COMMENT: INSULATION SPEC. ON DRAW. 102040 R9 FOR LINES 264-8 & 2519-8 IS WIR. CONTAINMENT SPRAY ISO 446540 R9 SHOWS INSUL. SPEC. IIIP (PERSONNEL PROTECTION ONLY). LETTER DCVP-RLCA-80 INDICATES SPEC. MAY BE REVISED ON ISO WITHOUT REVISION TO DWG. 102040. CLOSED ITEM.										
1052	820309	QAR	0	820309	RLCA	OIR	RLCA	MAR		WYLE LAB QA FINDINGS
COMMENT: PRIOR TO 781201, NO QA PROGRAM WAS FOUND TO BE IMPLEMENTED FOR THE TESTING WORK PERFORMED FOR PG&E.										
1052	820309	QAR	1	820316	RLCA	PPRR/CI	TES	MAR		WYLE LAB QA FINDING
COMMENT: NO CORRECTIVE ACTION REQUIRED. TO BE REPLACED BY EDI-3003.										
1052	820309	QAR	2	820524	TES	CR	NONE	MAR	NO	WYLE LAB QA FINDING
COMMENT: PRIOR TO 781201, NO QA PROGRAM WAS FOUND TO BE IMPLEMENTED FOR THE TESTING WORK PERFORMED FOR PG&E. REPLACED BY EDI 3003. CLOSED ITEM.										
1053	820309	SID	0	820309	RLCA	OIR	RLCA	PPR		DIESEL GEN START. AIR RECV. TANK DAMPING.TURB.BLDG.
COMMENT: PG&E QUALIFICATION ANALYSIS USES SPECTRA CURVES OTHER THAN HOSGRI ONES ; 3% DAMPING WAS SPECIFIED INSTEAD OF 4% AS HOSGRI STATES. HOSGRI SPECTRA MATCHES THAT IN ANALYSIS AND 3% DAMPING NOT USED, RATHER A CONSERVATIVE ACCELERATION VALUE WAS INPUT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1053	820309	SID	1	820322	RLCA	PPRR/DEV	TES	PPR		DIESEL GEN START. AIR RECV. TANK DAMPING.TURB.BLDG.
COMMENT: THE CURVES USED IN THE QUALIFICATION ANALYSIS ARE NOT FROM HOSGRI. 3% DAMPING WAS USED INSTEAD OF 4%. 3% DAMPING IS CONSERVATIVE.										
1053	820309	SID	2	820421	TES	PRR/DEV	PG&E	PPR		DIESEL GEN START. AIR RECV. TANK DAMPING.TURB.BLDG.
COMMENT: THE CURVES USED IN THE QUALIFICATION ANALYSIS ARE NOT FROM THE HOSGRI REPORT. 3% DAMPING WAS USED INSTEAD OF 4% AS ALLOWED IN THE HOSGRI REPORT. 3% DAMPING IS CONSERVATIVE.										
1053	820309	SID	3	820709	TES	CR	NONE	PPR	NO	DIESEL GEN START. AIR RECV. TANK DAMPING.TURB.BLDG.
COMMENT: ITR-3, 3.3.5 ; PG&E QUAL. ANAL. USES SPECTRA OTHER THAN HOSGRI ; 3% DAMP USED INSTEAD OF 4% ; RESULTS VALID DUE TO SPECTRA MATCHING HOSGRI & 3% BEING CONSERVATIVE. NO PHYSICAL MODIFICATIONS PER PG&E COMPL. SHT. 820601. DEVIATION.										
1054	820309	DMD	0	820309	RLCA	OIR	RLCA	PPR		DIESEL GEN START.AIR RECV. TANK ANAL.TURBINE BLDG.
COMMENT: PG&E QUALIFICATION ANALYSIS DOES NOT INCLUDE CODE CALCULATIONS; WELD STRESS METHOD MISAPPLIED. SEVERAL AREAS NOT EVALUATED ESP. PRESSURE INDUCED PRIMARY LOCAL STRESS AT SKIRT-TANK JUNCTION; RLCA AND PG&E STRESSES DIFFER BY MORE THAN 15% BUT STRESSES BELOW ALLOWABLE.										
1054	820309	DMD	1	820520	RLCA	PPRR/CI	RLCA	PPR		DIESEL GEN START.AIR RECV. TANK ANAL.TURBINE BLDG.
COMMENT: WELD STRESS METHOD MISAPPLICATION IS NOT INCORRECT OR A DEPARTURE FROM STANDARD PROCEDURE;										
1054	820309	DMD	2	820603	RLCA	PPRR/CI	TES	PPR		DIESEL GEN START.AIR RECV. TANK ANAL.TURBINE BLDG.
COMMENT: WELD STRESS METHOD MISAPPLICATION IS NOT INCORRECT OR A DEPARTURE FROM STANDARD PROCEDURE;										
1054	820309	DMD	3	820622	TES	PRR/CI	TES	PPR		DIESEL GEN START.AIR RECV. TANK ANAL.TURBINE BLDG.
COMMENT: THE CALCULATED STRESSES ARE WELL BELOW ALLOWABLE. VALUES THOUGH DETAILED CALCULATIONS ARE NOT MANDATED BY SECTION VIII DIVISION 1. THE FINAL RESOLUTION IS BASED ON THE PG&E QUALIFICATION ANALYSIS. FILE 129.106- REVISED 4/6/82 WHICH INCORPORATES CORRECT NOMENCLATURE FOR WELD CALCULATIONS,										
1054	820309	DMD	4	820622	TES	CR	NONE	PPR	NO	DIESEL GEN START.AIR RECV. TANK ANAL.TURBINE BLDG.
COMMENT: PG&E QUALIFICATION ANALYSIS DOES NOT INCLUDE CODE CALCULATIONS; WELD STRESS METHOD MISAPPLIED QUALIFICATION ANALYSIS FILE 129.106 REVISED 4/6/82 INCORPORATES CORRECT NOMENCLATURE FOR WELD CALCULATIONS. THE CALCULATED STRESSES MUCH BELOW ALLOWABLE. SECTION VIII DIV.1 DOES NOT REQUIRE DETAILED EVALUATION OF STRESSES.										
1055	820310	SIB	0	820310	RLCA	OIR	RLCA	RDC		CONTAINMENT ANNULUS SPECTRA
COMMENT: THE CORRECT CONTAINMENT ANNULUS SPECTRA CURVES (10/30/81 EQUIPMENT LOADS, CHECK DATE 11/9/81) ARE NOT MARKED WITH UNIQUE IDENTIFICATION NUMBERS. IN ADDITION THE DAMPING VALUES ASSOCIATED WITH THE CURVES ARE NOT MARKED ON EACH FIGURE.										
1055	820310	SID	1	820319	RLCA	PPRR/DEV	TES	RDC		CONTAINMENT ANNULUS SPECTRA
COMMENT: RLCA HAS RECOMMENDED THAT PG&E ASSIGN UNIQUE NUMBERS TO THE HOSGRI SPECTRA CURVES. THESE CURVES WERE NOT CONTROLLED.										
1055	820310	SID	2	820417	TES	PRR/DEV	PG&E	RDC		CONTAINMENT ANNULUS SPECTRA
COMMENT: PG&E ASSIGN UNIQUE NUMBERS TO THE HOSGRI SPECTRA CURVES. THESE CURVES WERE NOT CONTROLLED.										
1055	820310	SID	3	820524	TES	CR	NONE	RDC	NO	CONTAINMENT ANNULUS SPECTRA
COMMENT: THE CURRENT CONTAINMENT ANNULUS SPECTRA CURVES (10/30/81 EQUIPMENT LOADS, CHECK DATE 11/9/81) ARE NOT MARKED WITH UNIQUE IDENTIFICATION NUMBERS. IN ADDITION THE DAMPING VALUES ASSOCIATED WITH THE CURVES ARE NOT MARKED ON EACH FIGURE. THIS DOES NOT RESULT IN A DESIGN DEFICIENCY, BUT PG&E IS ADVISED TO MARK SPECTRA CURVES.										
1056	820310	QAR	0	820310	RLCA	OIR	RLCA	PPR		NO SIGNATURES ON SEVERAL PG&E CALCS.
COMMENT: CHECKING SIGNATURES ARE ABSENT FROM SEVERAL PG&E CALCULATIONS SENT TO CLOUD.										
1056	820310	QAR	1	820510	RLCA	PPRR/CI	TES	PPR		NO SIGNATURES ON SEVERAL PG&E CALCS
COMMENT: Q.A. ITEMS ARE IN SCOPE OF RFR AND WILL NOT BE CONSIDERED BY RLCA.										
1056	820310	QAR	2	820524	TES	PRR/CI	TES	PPR		NO SIGNATURES ON SEVERAL PG&E CALCS
COMMENT: PER SECTION 6.0 OF THE MANAGEMENT PLAN, Q.A ITEMS WILL NOT BE CONSIDERED BY RLCA. CHECKING SIGNATURES ON CALCULATIONS ARE A Q.A AUDIT FUNCTION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1056	820310	QAR	3	820524	TES	CR	NONE	PPR	NO	NO SIGNATURES ON SEVERAL PG&E CALCS.

COMMENT: CHECKING SIGNATURES ARE MISSING FROM SEVERAL PG&E CALC. SHTS. SENT TO RLCA & RLCA WILL NOT CONSIDER Q.A ITEMS PER SECTION 6 OF THE MANAGEMENT PLAN.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1057	820315	ICD	0	820315	RLCA	OIR	RLCA	RDF		ANAL. 106 DIFF. FROM THE PG&E ANAL. CONTAIN. BLDG.

COMMENT: STRESSES & SUPT. LOADS IN RLCA 106 ANAL DIFF.FROM PG&E ANAL 4A-5 R4 BY MORE THAN 15%.BY MORE ACCURATLY DIST.THE LUMP MASSES IN RLCA 106, THE STRESSES COMPARE WITHIN 15%.SUPT. LOADS STILL DIFF.BY MORE THAN 15%.THE DESIGN ANAL WAS FOUND TO BE MOD.& EXEC. CORRECTLY ON PIPESD.THE DIFF.OF MASS LOC'S AT SUPTS. BET. ADLPIPE & PIPESD WILL BE EXAM.UNDER FILE 1060.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1057	820315	ICD	1	820316	RLCA	PPRR/CI	TES	RDF		ANAL. 106 DIFF. FROM THE PG&E ANAL. CONTAIN. BLDG.

COMMENT: PG&E PIPING ANALYSIS 4A-5 DATED 12/9/81.& RLCA PIPING ANALYSIS RLCA 106 SEQUENCE # K15VOLR DATED 3/5/82. STRESS DIFFERENCES WITHIN 15% . SUPPORT DIFFERENCES WILL BE COVERED UNDER FILE 1060.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1057	820315	ICD	2	820417	TES	CR	NONE	RDF	NO	ANAL. 106 DIFF. FROM THE PG&E ANAL. CONTAIN. BLDG.

COMMENT: STRESS AND LOAD COMPARISON BETWEEN PG&E DESIGN ANALYSIS 4A-5 AND RLCA 106 (K15VOLR) DIFFERED BY MORE THAN 15%. A MORE ACCURATE MASS DISTRIBUTION RESULTED IN GOOD STRESS COMPARISON. CLOSED. THE DIFFERENCE OF MASS LOCATIONS AT SUPPORTS COVERED UNDER FILE 1060.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	0	820315	RLCA	OIR	RLCA	RCW		SMALL BORE PIPING LUG DESIGN

COMMENT: LOAD COMB. AT SINGLE LUG LOCATION EXCEED ALLOW. CRIT. SEVERAL CASES. FOR 2 LUG DES. ,ALL MET CRIT. EXCEPT 4" 10S. BOTH CASES ASSUME WORST SEIS. LDS. SAMPLE DID NOT PERMIT ADEQUATE REVIEW OF AXIAL LUGS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	1	820618	RLCA	PPRR/OIP	TES	RCW		SMALL BORE PIPING LUG DESIGN

COMMENT: PG&E SPACING RULES FOR SB PIPES MAY LEAD TO OVERSTRESSES IN LUGS. PG&E TO DEMONSTRATE THAT LUG STRESS FOR ACTUAL RUNS OF PIPE DOES NOT EXCEED ALLOWABLE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	2	820713	TES	PRR/OIP	PG&E	RCW		SMALL BORE PIPING LUG DESIGN.

COMMENT: USE OF PG&E SML. BORE PIPING SPACING RULES CAN LEAD TO CASES WHERE LUG STRESSES EXCEED ALLOW. PG&E TO DEMONSTRATE LUG STRESS FOR ACTUAL LINES DO NOT EXCEED ALLOW.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	3	820910	TES	OIR	RLCA	RCW		SMALL BORE PIPING LUG DESIGN.

COMMENT: SMALL BORE PIPING-LOAD COMBINATIONS AT SINGLE LUG DESIGN LOCATIONS WERE FOUND TO EXCEED ALLOWABLE CRITERIA IN SEVERAL CASES. FOR TWO LUG DESIGN, ALL MET CRITERIA EXCEPT 4IN. 10S. BOTH CASES WERE ANALYZED ASSUMING WORST CASE SEISMIC LOADS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	4	820913	RLCA	PPRR/CI	TES	RCW		SMALL BORE PIPING LUG DESIGN.

COMMENT: BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 961, 1021, 1059 AND 1098 INTO ONE ERROR CLASS A OR B FILE. SEE FILE 1098 FOR ERROR REPORT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	5	820921	TES	PRR/CI	TES	RCW		SMALL BORE PIPING LUG DESIGN.

COMMENT: BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 961, 1021, 1059 AND 1098 INTO ONE ERROR CLASS A OR B FILE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1058	820315	DMD	6	820921	TES	CR	NONE	RCW	NO	SMALL BORE PIPING LUG DESIGN.

COMMENT: SMALL BORE PIPING-LOAD COMBINATIONS FOR SINGLE AND TWO LUG DESIGNS WERE FOUND TO EXCEED ALLOWABLE CRITERIA IN SEVERAL CASES. BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF THEIR ITP OF PIPING, THIS FILE COMBINES INTO 1098 WITH FILES 961, 1021, AND 1059 INTO ONE ERROR CLASS A OR B FILE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1059	820315	DMD	0	820315	RLCA	OIR	RLCA	RCW		SMALL BORE PIPE REPORT OVERSTRESS

COMMENT: PG&E SML. BORE PIPING REPT. NOTED OVERSTRESS IN 2 1/2" S 40 PIPE; HOSGRI CITES 1969 BLUME REPT. AS SHOWING CONSERVATIVE SPANS; PRELIM. BLUME REPT. DOES NOT ADDRESS ITEM ; SPAN TABLES DO NOT ADDRESS INSULATED PIPE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1059	820315	DMD	1	820607	RLCA	PPRR/OIP	TES	RCW		SMALL BORE PIPE REPORT OVERSTRESS

COMMENT: PG&E TO RESOLVE. PG&E SMALL BORE REPORT (7711 A.G. WALTHER) NOTED OVERSTRESS IN 2 1/2" S40 PIPE. HOSGRI CITES 1969 BLUME REPORT SHOWING SPAN CONSERVATISMS. PRELIMINARY BLUME REPORT DOESN'T ADDRESS THIS ITEM. SPAN TABLES DON'T ADDRESS INSULATED PIPE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1059	820315	DMD	2	820621	TES	PRR/OIP	PG&E	RCW		SMALL BORE PIPE REPORT OVERSTRESS

COMMENT: ITR-1, 3.4.4; PG&E SMALL BORE REPORT (7711 A.G. WALTHER) NOTED OVERSTRESS IN 2 1/2" S40 PIPE. HOSGRI CITES 1969 BLUME REPORT SHOWING SPAN CONSERVATISMS. PRILIMINARY BLUME REPORT DOESN'T ADDRESS THIS ITEM. SPAN TABLES DON'T ADDRESS INSULATED PIPE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1059	820315	DMD	3	820910	TES	OIR	RLCA	RCW		SMALL BORE PIPE REPORT OVERSTRESS

COMMENT: SMALL BORE PIPING-PG&E SMALL BORE REPORT(11/77 A.G. WALTHER)NOTED OVERSTRESS IN 2 1/2IN S40 PIPE. HOSGRI CITES 1969 BLUME REPORT AS SHOWING SPAN CONSERVATIONS. PREL. BLUME REPORT DOES NOT ADDRESS THIS ITEM. SPAN TABLES DON'T ADDRESS INSULATED PIPE. TES & RLCA CONSIDER COMBINING W/961, 1021, 1058 & 1098 ER/AB.

	REV. 0		LATEST REV.			ACTION	PG&E			
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1059	820315	DMD	4	820913	RLCA	PPRR/CI	TES	RCW		SMALL BORE PIPE REPORT OVERSTRESS
COMMENT:	BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 961, 1021, 1058 AND 1098 INTO ONE ERROR CLASS A OR B FILE. SEE FILE 1098 FOR ERROR REPORT.									
1059	820315	DMD	5	820921	TES	PRR/CI	TES	RCW		SMALL BORE PIPE REPORT OVERSTRESS
COMMENT:	BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 961, 1021, 1058 AND 1098 INTO ONE ERROR CLASS A OR B FILE.									
1059	820315	DMD	6	820921	TES	CR	NONE	RCW	NO	SMALL BORE PIPE REPORT OVERSTRESS
COMMENT:	PG&E SMALL BORE PIPING REPORT NOTED OVERSTRESS IN 2 1/2 IN. S40 PIPE. HOSGRI CITES 1969 BLUME REPORT AS SHOWING SPAN CONSERVATISMS. PREL. BLUME REPORT DOES NOT ADDRESS THIS ITEM. BASED ON PG&E PRESENTATIONS (820806 AND 820826) OF ITP OF PIPING. THIS FILE COMBINED INTO 1098 AS ONE ER/AB WITH FILE 961, 1021, AND 1058.									
1060	820315	ICD	0	820315	RLCA	OIR	RLCA	RDF		PIPESD AND ADLPIPE CODES
COMMENT:	PIPESD AND ADLPIPE CONSIDER MASSES LUMPED AT SUPPORT LOCATIONS IN A DIFFERENT MANNER. PIPESD IGNORES THE TRIBUTORY MASSES AT SUPPORTS WHILE ADLPIPE LOADS THE MASS AT A SUPPORT WITH ZERO PERIOD ACCELERATION.SUPPORT LOADS USING THE PIPESD CODE MAY BE LOWER THAN CORRESPONDING LOADS CALCULATED USING ADLPIPE.									
1060	820315	ICD	1	820816	RLCA	OIR	RLCA	RDF		PIPESD AND ADLPIPE CODES
COMMENT:	ITR-1, 3.3.4 MASSES ASSIGNED TO SUPT. POINTS IN PIPESD MAY EITHER BE DELETED OR DISTRIBUTED TO ADJACENT NODE POINTS.THE TEN IDVP PIPING PROBLEMS DELETED MASSES ASSIGNED TO SUPT. POINTS. THIS FILE NOW DOES NOT ADDRESS ZERO PERIOD ACCELERATION EFFECTS. SUPT. LOADS CALCULATED BY PIPESD USING THE TWO DIFFERENT MASS LUMPING TECHNIQUES MAY NOT BE IDENTICAL.									
1060	820315	ICD	2	820913	RLCA	PPRR/OIP	TES	RDF		PIPESD AND ADLPIPE CODES
COMMENT:	PIPESD PROVIDES THE USER WITH 2 OPTIONS WITH REGARD TO TRIBUTARY PIPE MASS ASSOCIATED WITH SUPT. NODES. MASSES ASSIGNED SUPT. NODES MAY EITHER BE DELETED OR DISTRIBUTED TO ADJACENT NODE POINTS. THE DESIGN ANAL. CORRESPONDING TO THE INITIAL RLCA SAMPLE DELETE MASSES ASSIGNED TO SUPPORT NODES. IT IS UNDERSTOOD THAT AN ZPA FACTOR WILL BE APPLIED IN PG&E'S ITP.									
1060	820315	ICD	3	820921	TES	PRR/CI	TES	RDF		PIPESD AND ADLPIPE CODES
COMMENT:	TES AND RLCA AGREED IN A PROGRAM REVIEW COMMITTEE ACTION TO MODIFY THE RECOMMENDATION FROM AN OPEN ITEM WITH FUTURE ACTON TO PG&E TO A CLOSED ITEM WITH THE CONCERN OF THIS FILE TRANSFERRED TO FILE 1098-ERROR A/B.									
1060	820315	ICD	4	820921	TES	CR	NONE	RDF	NO	PIPESD AND ADLPIPE CODES
COMMENT:	PIPESD PROVIDES 2 OPTIONS WITH REGARD TO TRIBUTARY PIPE MASS ASSOCIATED WITH SUPPORT NODES.MASSES ASSIGNED TO SUPPORT NODES MAY EITHER BE DELETED OR DISTRIBUTED TO ADJACENT NODE POINTS.THE DESIGN ANALYSES CORRESPONDING TO THE INITIAL RLCA SAMPLE DELETE MASSES ASSIGNED TO SUPT. NODES.COMBINED WITH FILE 1098-ERROR CLASS A/B.									
1061	820315	OD	0	820315	RLCA	OIR	RLCA	CHK		HVAC FAN S31 FABRICATION DRW.
COMMENT:	PG&E AND THE MANUFACTURER HAVE BEEN UNABLE TO SUPPLY A DETAILED FABRICATION DRAWING FOR HVAC FAN S31. THE INDEPENDENT ANALYSIS OF THIS ITEM HAS STOPPED. PG&E TO OBTAIN THE NECCESSARY DOCUMENTATION.									
1061	820315	OD	1	820419	RLCA	PPRR/CI	TES	CHK		HVAC FAN S31 FABRICATION DRAWING
COMMENT:	BASED ON RLCA P105-4-1061-003, PG&E RESPONSE TO EDI 1061. RLCA WILL ARRANGE TO CONDUCT FURTHER ON-SITE INVESTIGATION OF SUPPLY FAN S-31. THIS FIELD INFORMATION WILL BE USED TO COMPLETE THE INDEPENDENT ANALYSIS.									
1061	820315	OD	2	820511	TES	PRR/CI	TES	CHK		HVAC FAN S31 FABRICATION DRAWING
COMMENT:	RLCA WILL ARRANGE TO CONDUCT FURTHER ON-SITE INVESTIGATION OF SUPPLY FAN S-31. THIS FIELD INFORMATION WILL BE USED TO COMPLETE THE INDEPENDENT ANALYSIS.									
1061	820315	OD	3	820511	TES	CR	NONE	CHK	NO	HVAC FAN S31 FABRICATION DRW.
COMMENT:	PG&E AND THE MANUFACTURER HAVE BEEN UNABLE TO SUPPLY A DETAILED FABRICATION DRAWING FOR HVAC FAN S-31. RLCA WILL ARRANGE TO CONDUCT FURTHER ON-SITE INVESTIGATION OF THE FAN AND USE THE FIELD INFORMATION TO COMPLETE THE INDEPENDENT ANALYSIS. CLOSED ITEM.									
1062	820315	ICD	0	820315	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 100-STRESS DIFF.
COMMENT:	RLCA 100 ANAL SHOWS STRESSES TO EXCEED ALLOWABLE.EDI 932 WAS ISSUED BECAUSE SUPPORT 58S/23R WAS DETERMINED TO BE A DEADWEIGHT SUPPORT IN THE FIELD & SHOWN AS A RIGID VERT. ON THE ISOMETRIC.PREL. RESULTS INDICATE THAT THIS SUPPORT CAUSES THE OVERSTRESS.RLCA TO DETERMINE ALL THE REASONS FOR THE DIFFERENCES.									
1062	820315	ICD	1	820430	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 100-STRESS DIFF.
COMMENT:	ANALYSIS RLCA 100 SHOWS STRESSES TO EXCEED ALLOWABLE. SUPPORT 58S/23R REFERENCED IN FILE 932(ERROR CLASS A) CAUSES THE OVERSTRESS. BY INCLUDING SUPT.58S/23R AS A RIGID VERTICAL ALL STRESS ARE BELOW ALLOWABLE. THIS FILE CONCERNS STRESS DIFFERENCES GREATER THAN 15% AND UNDER ALLOWABLE.									
1062	820315	ICD	2	820729	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 100-STRESS DIFF.
COMMENT:	RLCA CHANGED TWELVE ITEMS IN VERIFICATION ANALYSIS (RLCA 100) AND PIPE STRESSES NOW AGREE WITH DESIGN ANALYSIS (8-33) WITHIN 15%.									

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1062	820315	ICD	3	820805	TES	ER/C	PG&E RDF			RLCA PIPING ANALYSIS 100-STRESS DIFF.
COMMENT: RLCA FILES P105-4-521-008, REV.1; -009, REV.1; -050, REV.0; -051, REV.0 & ASSOCIATED RLCA COMPUTER ANALYSES. PG&E ANALYSIS 8-33 (5/21/80). REVIEWED 12 DIFFERENCES BETWEEN DESIGN (8-33) & VERIFICATION (RLCA 100) ANALYSES. SOME ITEMS EXCEED 79-14 TOLERANCES OR 15% DIFFERENCE. ALL STRESSES ARE BELOW ALLOWABLE.										
1062	820315	ICD	4	821108	TES	CR	NONE RDF		NO	RLCA PIPING ANALYSIS 100-STRESS DIFF.
COMMENT: RLCA ANALYSIS 100 SHOWS STRESSES TO EXCEED ALLOWABLE. PG&E MODELED SUPPORT 58S/23R INCORRECTLY. RLCA THEN CHANGED 12 ITEMS AND STRESSES NOW AGREE WITH DESIGN ANALYSIS 8-33. SOME ITEMS EXCEED 79-14 TOLERANCE OR 15% DIFFERENCE. ALL STRESSES ARE BELOW ALLOWABLE. ERROR CLASS C. NO PHYSICAL MODS PER PG&E COMP. SHT. 821102.										
1063	820315	ICD	0	820315	RLCA	OIR	RLCA RDF			RLCA PIPING ANALYSIS 107-STRESS DIFF.
COMMENT: THE STRESSES FOR SELECTED NODES IN THE VERIFICATION ANALYSIS (RLCA 107) DIFFER FROM THE CORRESPONDING DESIGN ANALYSIS 8-34 BY MORE THAN 15%. THE STRESSES ARE ALL BELOW ALLOWABLE.										
1063	820315	ICD	1	820710	RLCA	PER/C	TES RDF			RLCA PIPING ANALYSIS 107-STRESS DIFF.
COMMENT: TEN DIFFERENCES BETWEEN DESIGN AND VERIFICATION ANALYSES ARE NOTED. VALVE 1-9003A WEIGHT, SPECTRA, SUPPORTS 58S/124R AND 58S/30R, SUPPORT DIMENSIONS, AND PIPE LEG LENGTH DIFFERENCES ARE OUTSIDE THEIR TOLERANCE.										
1063	820315	ICD	2	820722	TES	ER/C	PG&E RDF			RLCA PIPING ANALYSIS 107-STRESS DIFF.
COMMENT: RLCA FILES P105-4-521-013, REV.1; -014, REV.0; -015, REV.0; -029, REV.0; -048, REV.0; -060, REV.0 & ASSOCIATED RLCA COMPUTER ANALYSIS. PG&E PIPING ANALYSIS 8-34 DATED 7/1/80. TEN DIFFERENCES BETWEEN DESIGN & VERIFICATION ANALYSIS EXIST. ALL STRESSES BELOW ALLOWABLE.										
1063	820315	ICD	3	821108	TES	CR	NONE RDF		NO	RLCA PIPING ANALYSIS 107-STRESS DIFF.
COMMENT: DIFFERENCES BETWEEN RLCA ANALYSIS 107 AND DESIGN ANALYSIS 8-34 BY MORE THAN 15%. STRESSES BELOW ALLOWABLE. TEN DIFFERENCES NOTED. SOME ITEMS OUTSIDE THEIR TOLERANCE. ERROR CLASS C. NO PHYSICAL MODS PER PG&E COMPLETION SHEET 821102.										
1064	820315	QAR	0	820315	RLCA	OIR	TES MAR			PG&E QA FINDING
COMMENT: INADEQUATE QA PROGRAM FOR THE AREAS OF POLICY, PROCEDURES, AND IMPLEMENTATION. QA ORGANIZATION HAD LIMITED RESPONSIBILITY. QA PROGRAM TO BE REPLACED BY EOI 3004.										
1064	820315	QAR	1	820524	TES	CR	NONE MAR		NO	PG&E QA FINDINGS
COMMENT: INADEQUATE QA PROGRAM FOR THE AREAS OF POLICY, PROCEDURES, AND IMPLEMENTATION. QA ORGANIZATION HAD LIMITED RESPONSIBILITY. QA PROGRAM TO BE REPLACED BY EOI 3004. CLOSED ITEM.										
1065	820315	QAR	0	820315	RLCA	OIR	TES MAR			PG&E QA FINDINGS
COMMENT: INTERFACE AND DOCUMENT CONTROLS INADEQUATE. TO BE REPLACED BY EOI 3004.										
1065	820315	QAR	1	820524	TES	CR	NONE MAR		NO	PG&E QA FINDINGS
COMMENT: INTERFACE AND DOCUMENT CONTROLS INADEQUATE. TO BE REPLACED BY EOI 3004. CLOSED ITEM.										
1066	820315	QAR	0	820315	RLCA	OIR	TES MAR			PG&E QA FINDINGS
COMMENT: DESIGN VERIFICATION PROGRAM NOT FORMALIZED, RESULTING IN INCONSISTENT IMPLEMENTATION AND DOCUMENTATION. TO BE REPLACED BY EOI 3004.										
1066	820315	QAR	1	820524	TES	CR	NONE MAR		NO	PG&E QA FINDINGS
COMMENT: DESIGN VERIFICATION PROGRAM NOT FORMALIZED, RESULTING IN INCONSISTENT IMPLEMENTATION AND DOCUMENTATION. TO BE REPLACED BY EOI 3004. REPLACED BY EOI 3004. CLOSED ITEM.										
1067	820315	QAR	0	820315	RLCA	OIR	TES MAR			URS/BLUME QA FINDINGS
COMMENT: NO QA PROGRAM, IN CONFORMANCE WITH 10CFR50 APPENDIX B, WAS IMPLEMENTED, RESULTING IN LACK OF FORMAL DESIGN CONTROL. TO BE REPLACED BY EOI 3005.										
1067	820315	QAR	1	820524	TES	CR	NONE MAR		NO	URS/BLUME QA FINDINGS
COMMENT: NO QA PROGRAM, IN CONFORMANCE WITH 10CFR50 APPENDIX B, WAS IMPLEMENTED, RESULTING IN LACK OF FORMAL DESIGN CONTROL. TO BE REPLACED BY EOI 3005. REPLACED BY EOI 3005. CLOSED ITEM.										
1068	820315	QAR	0	820315	RLCA	OIR	TES MAR			URS/BLUME QA FINDINGS
COMMENT: HOSGRI REPORT, ISSUED BY URS BLUME, WAS NOT CONTROLLED. TO BE REPLACED BY EOI 3005.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1068	820315	QAR	1	820524	TES	CR	NONE MAR	NO		URS/BLUME QA FINDINGS

COMMENT: NO QA PROGRAM, IN CONFORMANCE WITH 10CFR50 APPENDIX B, WAS IMPLEMENTED, RESULTING IN LACK OF FORMAL DESIGN CONTROL. TO BE REPLACED BY EOI 3005. CLOSED ITEM.

1069	820315	FID	0	820315	RLCA	OIR	RLCA	RDF		VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: PG&E AFW ISO 447119, REV.12 SHOWS VALVES LCV 113 & 115 UNSUPPORTED. RLCA FIELD INSPECTION CONFIRMED THIS. PG&E ANALYSIS 2-14, COMPUTER DATE 1/16/82 INDICATES SUPPORTS HAVE BEEN ADDED TO VALVES. RLCA TO COMPLETE VERIFICATION BASED ON ORIGINAL FIELD INFORMATION, WITH SUBSEQUENT CONSIDERATION OF REVISIONS.

1069	820315	FID	1	820426	RLCA	PPRR/CI	TES	RDF		VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: PG&E CONFIRMED ADDITION OF NEW SUPPORTS TO VALVES AND PROVIDED 1981 ANALYSIS. EOI 1071 REPORTS OVERSTRESS IN THIS PIPING ANALYSIS.

1069	820315	FID	2	820511	TES	OIR	RLCA	RDF		VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: TES RECOMMENDS THAT FILE 1069, REV.0, BE RESOLVED EXCLUSIVELY BASED ON THE REVIEW OF THE PG&E 1981 ANALYSIS, PG&E REASONS FOR THE CHANGES AND THE ADDITION OF THE NEW SUPPORTS TO VALVES LCV113 AND LCV115 RATHER THAN CLOSED OUT AND TRANSFERRED TO FILE 1071 FOR EVENTUAL RESOLUTION.

1069	820315	FID	3	820517	RLCA	PER/A	TES	RDF		VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: LACK OF SUPPORTS ON VALVE OPERATOR CAUSES OVERSTRESS IN RLCA PIPING ANALYSIS 109. PG&E IN PROCESS OF ADDING SUPPORTS. ADDITIONAL SUPPORTS TO BE FIELD VERIFIED BY RLCA. RLCA 109 WAS RERUN WITH SUPPORTS ON VALVE OPERATOR (K15YCVF) TO SHOW STRESSES BELOW ALLOWABLE. PG&E PIPING ANALYSIS 2-4 DATED 1-16-82 INDICATE SUPPORTS ON VALVE OPERATOR.

1069	820315	FID	4	820607	TES	ER/A	PG&E	RDF		VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: PG&E PIPING ISO 447119, R.12, PIPING ANALYSES 2-14 (7/26/77 & 1/16/82). RLCA PIPING ANALYSIS RLCA 109 SEQ. #S K15VFW3 & K15YCVF (3/19/82 & 5/9/82). PG&E LTR. DCVP-RLCA-67 (4/23/82). PG&E DWG. 049264, SHEETS 157-169. VERIF. ANALYSIS FAILS STRESS EQUATIONS DUE TO UNSUP. VALVE OPERATORS. THE ADDI. OF SUPT. ON VALVE OPERATOR RESULTS IN ACCEPTABLE STRESSES.

1069	820315	FID	5	820630	TES	ER/A	PG&E	RDF	YES	VALVE LCV 113/115 UNSUPT. AFW LINES 577/578 AUX. B.

COMMENT: PG&E TO ADD SUPPORTS AND TO ASK VALVE SUPPLIER FOR VALVE QUALIFICATION FOR SUPPORTS ON VALVE OPERATOR.

1069	0		6	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1069	0		7	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1069	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1069	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1069	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1069	0		11	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1070	820315	DMD	0	820315	RLCA	OIR	RLCA	RDC		AUX. BLDG. HORIZONTAL SOIL SPRING CALC.

COMMENT: ITR-1, 3.1.4 AUXILIARY BUILDING RLCA TO COMPLETE MCNEILL WORK. THE HORIZONTAL SOIL SPRING INDEPENDENTLY CALCULATED BY RLCA DIFFERS FROM THE URS/BLUME SOIL SPRING BY 50% .

1070	820315	DMD	1	820721	RLCA	PPRR/CI	TES	RDC		AUX. BLDG. HORIZONTAL SOIL SPRING CALC.

COMMENT: DELETE FROM ITR-1, 3.1.4 RLCA RECOMMENDS THAT THIS FILE BE COMBINED WITH EOI 1097.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1070	820315	DMD	2	820722	TES	PRR/CI	TES	RDC		AUX. BLDG. HORIZONTAL SOIL SPRING CALC.

COMMENT: DELETE FROM ITR-1. BASED ON PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THE AUX BUILDING IS BEING COMPLETELY REANALYZED. THIS FILE IS COMBINED INTO EDI 1097 (ER/AB).

1070	820315	DMD	3	820722	TES	CR	NONE	RDC	NO	AUX. BLDG. HORIZONTAL SOIL SPRING CALC.

COMMENT: THE HORIZONTAL SOIL SPRING INDEPENDENTLY CALCULATED BY RLCA DIFFERS FROM THE URS/BLUME SOIL SPRING BY 50% . THE AUXILIARY BUILDING IS INCLUDED IN PG&E ITP.THIS EDI IS COMBINED WITH EDI 1097 AS AN ERROR CLASS 'A' OR 'B'.

1071	820323	ICD	0	820323	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 109-STRESS DIFF.

COMMENT: AFW PIPING ANALYSIS RLCA 109 SHOWS STRESSES EXCEED ALLOWABLE. FILES 953 THROUGH 958 HAVE BEEN ISSUED FOR 79-14 ISOMETRIC PROBLEMS. THESE PROBLEMS MAY ACCOUNT FOR THE OVERSTRESS.

1071	820323	ICD	1	820517	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 109 STRESS DIFF.

COMMENT: ITR-1, 3.2.4 RLCA TO COMPLETE EVALUATION. EDI 1069 REPORTS OVERSTRESS; EDI 1071 SHOWS STRESS DIFFERENCES BETWEEN DESIGN (2-14) AND VERIFICATION (RLCA 109) ANALYSES MORE THAN 15% BUT NOT MORE THAN ALLOWABLE.

1071	820323	ICD	2	820710	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 109 STRESS DIFF.

COMMENT: RLCA CHANGED FIVE ITEMS IN ANALYSIS RLCA 109. PIPE STRESSES WITHIN 15%

1071	820323	ICD	3	820811	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 109 STRESS DIFF.

COMMENT: PG&E AFW ISO 447119 R12; PG&E ANALYSIS 2-14 (7-26-77 & 1-16-82); RLCA PIPING ANALYSIS RLCA109(K15VFW3 & K154CVF) DATED 3-19-82 & 5-9-82 ; REVIEWED 5 DIFFERENCES BETWEEN DESIGN AND VERIFICATION ANALYSES. PG&E MODELED 3x2 SWAGES INCORRECTLY, ALL STRESSES ARE BELOW ALLOWABLE.

1071	820323	ICD	4	820909	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 109 STRESS DIFF.

COMMENT: STRESSES IN THE AFW DESIGN ANALYSIS (2-14) AND VERIF. ANALYSIS (RLCA109) DIFFER BY MORE THAN 15%. RLCA CHANGED 5 ITEMS IN THE INDEPENDENT ANALYSIS P105-4-521-022 R1 AND THE PIPE STRESSES AGREED WITHIN 15%. PG&E MODELED THE 3x2 SWAGES INCORRECTLY.ALL STRESSES BELOW ALLOWABLE.ERROR CLASS C.NO PHY.MODS.PER PG&E RESOLUTION SHEET 820830.

1072	820323	ICD	0	820323	RLCA	OIR	RLCA	JCT		TURBINE DRIVEN AUX FW. PUMP. AUX. BUILDING.

COMMENT: PG&E & RLCA STRESSES DIFFER BY MORE THAN 15%

1072	820323	ICD	1	820608	RLCA	PPRR/DEV	TES	JCT		TURBINE DRIVEN AUX FW. PUMP. AUX. BUILDING.

COMMENT: SPECTRA USED NOT CONTAINED IN CONTROLLED DOCUMENT. STRESS DIFFERENCES RESOLVED RLCA P105-550-01-, REV.1

1072	820323	ICD	2	820708	TES	PRR/DEV	PG&E	JCT		TURBINE DRIVEN AUX FW. PUMP. AUX. BUILDING.

COMMENT: ITR-1, 3.5.5.4 & 3.9.4. THE SPECTRA USED IN THE QUALIFICATION SUMMARY ARE IDENTICAL TO THE HOSGRI SPECTRA EXCEPT FOR THE IDENTIFICATION NUMBERS. PG&E TO ASSEMBLE SPECTRA.

1072	820323	ICD	3	820910	TES	CR	NONE	JCT	NO	TURBINE DRIVEN AUX FW. PUMP. AUX. BUILDING.

COMMENT: SPECTRA USED TO QUALIFY AUX. FW PUMP NOT CONTAINED IN CONTROLLED DOCUMENT. SPECTRA IDENTICAL TO HOSGRI SPECTRA. PG&E TO ASSEMBLE SPECTRA. ITR-1, 3.5.5.4 & 3.9.4. DEVIATION.

1073	820323	ICD	0	820323	RLCA	OIR	RLCA	JCT		AUX. SALTWATER PUMP BOLT STRESSES. INTAKE STRUCT.

COMMENT: BOLT STRESSES EXCEED ALLOWABLE.

1073	820323	ICD	1	820608	RLCA	PER/C	TES	JCT		AUX. SALTWATER PUMP BOLT STRESSES. INTAKE STRUCT.

COMMENT: MODE SHAPE ERROR BY PG&E. BOLT OVERSTRESS RESOLVED PER RLCA P105-4-550-011, REV.2

1073	820323	ICD	2	820621	TES	ER/C	PG&E	JCT		AUX. SALTWATER PUMP BOLT STRESSES. INTAKE STRUCT.

COMMENT: TES PV TEAM REVIEW REPORT 820621. IDVP COMPLETION REPORT CAN BE ISSUED IF PG&E INFORMS TES THAT THERE WILL BE NO PHYSICAL MODIFICATIONS.

1073	820323	ICD	3	820708	TES	CR	NONE	JCT	NO	AUX. SALTWATER PUMP BOLT STRESSES. INTAKE STRUCT.

COMMENT: BOLT STRESSES EXCEED ALLOWABLE. MODE SHAPE ERROR BY PG&E. OVERSTRESS RESOLVED PER RLCA P105-4-550-011 R, 2. PG&E COMPLETION REPORT 820701. ERROR CLASS C.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1074	820323	ICD	0	820323	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF.
COMMENT: STRESS DIFFERENCES BETWEEN DESIGN ANALYSIS 8-21, AND VERIFICATION ANALYSIS RLCA 101 EXCEED 15%. ALL STRESS ARE BELOW ALLOWABLE.										
1074	820323	ICD	1	820618	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: RLCA CHANGED FOUR ITEMS IN THE VERIFICATION ANALYSIS RLCA 101 AND STRESS AGREED WITH DESIGN ANALYSIS 8-21 WITHIN 15% .										
1074	820323	ICD	2	820805	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: RLCA FILE P105-4-521-022 R.1,PIPING ANALYSIS RLCA 101 SEQ. K150H7J & RT2VBE7 (3/23/82 & 2/26/82). PG&E PIPING ANALYSIS 8-21 (2/24/78). 4 DIFFERENCES BETWEEN THE DESIGN & VERIFICATION ANALYSIS. THE DESIGN ANALYSIS SPECTRA DOES NOT ENVELOPE THE REQUIRED HOSGRI SPECTRA. ALL STRESSES ARE BELOW ALLOWABLE.										
1074	820323	ICD	3	821209	TES	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: RLCA SPECTRA INPUT CHANGED TO AGREE WITH DESIGN ANALYSIS 8-21 WHICH DID NOT ENVELOPE HOSGRI FIGURE 4-136. BASED ON PG&E RESOLUTION (820830) AND COMPLETION (821122) SHEETS, RLCA TO REVIEW LATEST PG&E CALC. PACKAGE 8-108 AND CONFIRM THAT NO MODS ARE REQUIRED AND THAT FILE CAN BE CLOSED.										
1074	820323	ICD	4	821217	RLCA	PPRR/CI	TES	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: VERIFICATION PIPING STRESS DIFFER FROM DESIGN ANALYSIS (PRIOR TO 811130) BY MORE THAN 15%. REASONS; 1) SPECTRA 2) MASS LUMPING (EOI 1060). 3) VALVE 8821A ORIENTATION (EOI 947). 4) FLANG WEIGHT. PG&E COMPLETION SHEET 1074 REV.2 821104. NO MODIFICATIONS REQUIRED.										
1074	820323	ICD	5	830105	TES	PRR/CI	TES	RDF		RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: VERIFICATION PIPING STRESSES DIFFER FROM THOSE IN DESIGN ANALYSIS (PRIOR TO 811130) BY MORE THAN 15% DUE TO SPECTRA, MASS LUMPING (EOI 1060); VALVE 8821A ORIENTATION (EOI 947); AND FLANGE WEIGHT. BASED ON PG&E COMPLETION SHEET 1074, REV. 2, 821104, THERE ARE NO MODS. DESIGN ANALYSIS REVISED AS 8-108.										
1074	820323	ICD	6	830105	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 101 STRESS DIFF
COMMENT: STRESS DIFFERENCE BETWEEN DESIGN 8-21 AND VERIFICATION 101 ANALYSIS IS GREATER THAN 15%. DUE TO SPECTRA, MASS LUMPING (EOI 1060), VALVE 8821A ORIENTATION (EOI 947), AND FLANGE WEIGHT. ALL STRESSES BELOW ALLOWABLE. DESIGN ANALYSIS REVISED AS 8-108. CLOSED ITEM. PREVIOUSLY AN ERROR CLASS C.										
1075	820330	FID	0	820330	RLCA	OIR	RLCA	RDF		CCW SUPTS. 5007-R & 18-5R DIR.LINE 104, TURB. BLDG.
COMMENT: SUPPORTS 5007-R & 18-5R LABLELED ON PG&E COMPONENT COOLING WATER ISO 449316, REV.3 AS BEING ACTIVE IN Y & Z DIRECTIONS. RLCA FIELD INSPECTION SHOWED SUPPORT ACTIVE IN X & Y DIRECTIONS.										
1075	820330	FID	1	820430	RLCA	PPRR/DEV	TES	RDF		CCW SUPTS. 5007-R & 18-5R DIR.LINE 104, TURB. BLDG.
COMMENT: DESIGN ANALYSIS 4-3 SHOWS CORRECT SUPPORT DIRECTIONS(NODE 18) IN THE INPUT AND INCORRECT DIRECTIONS ON ANALYSIS ISOMETRICS.										
1075	820330	FID	2	820607	TES	PRR/DEV	PG&E	RDF		CCW SUPTS. 5007-R & 18-5R DIR.LINE 104, TURB. BLDG.
COMMENT: PG&E PIPING ISO 449316, REV.3 AND 449314, REV.3. PG&E PIPING ANALYSIS 4-3 DATED 2/18/80. INFORMATION INCORRECT ON ISO. FIELD AGREES WITH DESIGN ANALYSIS.										
1075	820330	FID	3	820619	TES	CR	NONE	RDF	NO	CCW SUPTS. 5007-R & 18-5R DIR.LINE 104, TURB. BLDG.
COMMENT: SUPPORTS 5007/R AND 18/5R ON CCW ISO 449316 R3 ARE ACTIVE IN Y & Z DIRECTIONS. RLCA FIELD VERIFICATION AND PG&E DESIGN ANALYSIS 4-3 SHOWS SUPPORTS ACTIVE IN X & Y DIRECTIONS. DEVIATION. NC PHY. MODS. PER PG&E RESOLUTION SHEET 820611.										
1076	820330	FID	0	820330	RLCA	OIR	RLCA	RDF		CCW SUPTS. 55S-3R DIR.LINE 103, AUX. BUILDING.
COMMENT: SUPPORT 55S/3R LABELED ON PG&E CCW ISO 449314, REV.3 AS ACTIVE IN Y DIRECTION. RLCA FIELD INSPECTION SHOWED SUPPORT ACTIVE IN BOTH X & Y DIRECTIONS.										
1076	820330	FID	1	820330	RLCA	PPRR/DEV	TES	RDF		CCW SUPTS. 55S-3R DIR.LINE 103, AUX. BUILDING.
COMMENT: PG&E DESIGN ANALYSIS 4-3 SHOWS SUPPORT TO BE ACTIVE IN BOTH X & Y DIRECTIONS. THIS AGREES WITH RLCA FIELD VERIFICATION.										
1076	820330	FID	2	820417	TES	PRR/DEV	PG&E	RDF		CCW SUPTS. 55S-3R DIR.LINE 103, AUX. BUILDING.
COMMENT: PG&E PIPING ISO 449316, REV.3 AND 449314, REV.3. PG&E PIPING ANALYSIS 4-3 DATED 2/18/80. INFORMATION INCORRECT ON ISO. FIELD AGREES WITH DESIGN ANALYSIS.										
1076	820330	FID	3	820524	TES	CR	NONE	RDF	NO	CCW SUPTS. 55S-3R DIR.LINE 103, AUX. BUILDING.
COMMENT: SUPPORT 55S/3R IS SHOWN ON CCW ISO 449314 R3 AS A Y DIRECTION SUPT. PG&E DESIGN ANALYSIS 4-3 AND RLCA FIELD VERIFICATION SHOWS SUPPORT AS ACTIVE IN X & Y DIRECTIONS. DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820521.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1077	820406	ICD	0	820406	RLCA	OIR	RLCA	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: QUALIFICATION CALCULATION IS DATED 11/8/81. QUESTION: WERE SOME CLASS -I ITEMS NOT REVIEWED, IS SAMPLE COMPROMISED? PG&E TO PROVIDE PRIOR ANALYSIS.										
1077	820406	ICD	1	820607	RLCA	PPRR/OIP	TES	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: FUTURE ACTION BY PG&E, PG&E WILL PROVIDE ANALYSIS AS STATED BY REV.0										
1077	820406	ICD	2	820619	TES	OIR	RLCA	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: PG&E PROVIDED ANALYSIS; RLCA TO REVIEW AND TAKE ACTION.										
1077	820406	ICD	3	820622	RLCA	PPRR/OIP	TES	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: ANALYSIS APPLICABLE TO EOI 1003 NOT 1077.										
1077	820406	ICD	4	820811	TES	PRR/OIP	PG&E	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: PG&E CALCS. DATED 781227 NOT LEGIBLE AND APPEAR TO BE FOR TURBINE BLDG. EOI 1077 ON RLCA SAMPLE 2 HVAC IS IN AUX. BLDG. PG&E TO PROVIDE APPROPRIATE CALCS.										
1077	820406	ICD	5	821005	TES	OIR	RLCA	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: BASED ON ITP EFFORT ON HVAC SUPPORTS WHICH IS DESCRIBED IN DCP PHASE 1 FINAL REPORT (820917 SUBMITTAL), THE IDVP PROGRAM REVIEW COMMITTEE DECIDED TO COMBINE THIS FILE WITH FILE 1003 WHICH WAS IN TURN CLASSIFIED AS AN ERROR/A OR B.										
1077	820406	ICD	6	821006	RLCA	PPRR/CI	TES	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: BASED ON THE ITP EFFORT ON HVAC SUPPORTS WHICH IS DESCRIBED IN THE DCP PHASE I FINAL REPORT (9/17/82), THE IDVP PROGRAM REVIEW COMMITTEE DECIDED TO COMBINE THIS FILE WITH FILE 1003, WHICH IS CLASSIFIED AS AN ERROR A OR B.										
1077	820406	ICD	7	821022	TES	PRR/CI	TES	RCW		HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: BASED ON THE ITP EFFORT ON HVAC SUPPORTS WHICH IS DESCRIBED IN THE DCP PHASE I FINAL REPORT (9/17/82 SUBMITTAL), THE IDVP PROGRAM REVIEW COMMITTEE DECIDED TO COMBINE THIS FILE WITH FILE 1003, WHICH IS CLASSIFIED AS AN ERROR A OR B.										
1077	820406	ICD	8	821022	TES	CR	NONE	RCW	NO	HVAC DUCT SUPT. CALCULATION DATING.
COMMENT: QUALIFICATION CALCS DATED 811108. SAMPLE WAS POSSIBLY COMPROMISED. BASED ON ITP PH. 1 FINAL REPORT (820917 SUBMITTAL), IDVP PROGRAM REVIEW COMMITTEE DECIDED TO COMBINE THIS FILE W/FILE 1003 WHICH CLASSIFIED AS ERROR A OR B.										
1078	820419	FID	0	820419	RLCA	OIR	RLCA	RRB		VENTILATION SYS LOGIC PANEL POV1, POV2
COMMENT: FIELD INSPECTION REVEALED MISSING SCREWS IN P.C. BOARD MOUNTING										
1078	820419	FID	1	820607	RLCA	PER/C	TES	RRB		VENTILATION SYS LOGIC PANEL POV1, POV2
COMMENT: RLCA FIELD INSPECTION SHOWED PC BOARD RACK MOUNTING SCREWS TO BE MISSING. THE PC BOARD RACKS WERE SHAKE TESTED WITH ALL MOUNTING BOLTS IN PLACE. FOLLOWING THE RLCA FIELD INSPECTION, THE MOUNTING SCREWS WERE REPLACED.										
1078	820419	FID	2	820709	TES	ER/C	PG&E	RRB		VENTILATION SYSTEM LOGIC PANEL POV1, POV2
COMMENT: ITEM QUALIFIED WITH SCREWS, MAY FAIL WITHOUT SCREWS.										
1078	820419	FID	3	820713	TES	CR	NONE	RRB	NO	VENTILATION SYSTEM LOGIC PANEL POV1,POV2
COMMENT: FIELD INSPECTION BY RLCA SHOWED MISSING SCREWS ON PC BOARD RACK MOUNTING. FOR SEISMIC QUAL.VIBRATION TESTS THESE SCREWS WERE PRESENT.THE SCREWS HAVE BEEN INSTALLED OR REPLACED AND IS NOW IN A PROPER CONFIGURATION.THIS MAY HAVE BEEN A TEMP.CONDITION DUE TO MAINTENANCE OR TESTING.HOWEVER,INCORRECT INSTALLATION OF SAFETY-RELATED EQUIP.WAS FOUND.										
1079	820419	FID	0	820419	RLCA	OIR	RLCA	RDC		AUX BLDG FUEL HANDLING STRUCTURE
COMMENT: PG&E DWG. 451597 R.3 SHOWS THAT FOR THE FUEL HANDLING STRUCTURE STRUCTURAL STEEL, A LOWER STEEL CROSSMEMBER EXISTS BETWEEN COLUMN LINES 175 & 184 FOR THE WEST ELEVATION.RLCA FIELD INSP. SHOWS A ROLL UP DOOR AT THIS LOCATION AND NO CROSSMEMBER PG&E DWG. 439506 R.5 REFLECTS THIS AS-BUILT CONDITION.										
1079	820419	FID	1	820611	RLCA	PPRR/OIP	TES	RDC		AUX BLDG FUEL HANDLING STRUCTURE
COMMENT: PG&E TO PREPARE AN AS-BUILT DWG. OF THE FUEL HANDLING BUILDING.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1079	820419	FID	2	820619	TES	PRR/OIP	PG&E	RDC		AUX BLDG FUEL HANDLING STRUCTURE

COMMENT: ITR-1, 3.1.4 PG&E TO PREPARE AS-BUILT DRAWING OF FH BLDG. TES FIELD INSPECTION AND DRAWING REVIEW CONFIRMS RLCA FINDING.

1079	820419	FID	3	820721	TES	OIR	RLCA	RDC		AUX BLDG FUEL HANDLING STRUCTURE

COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUXILIARY BUILDING AND FHB ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

1079	820419	FID	4	820721	RLCA	PPRR/CI	TES	RDC		AUX BLDG FUEL HANDLING STRUCTURE

COMMENT: ITR-1,3.1.4. RLCA RECOMMENDS THAT THIS FILE BE COMBINED WITH EOI 1092, WHICH ALSO PERTAINS TO THE FUEL HANDLING BUILDING.

1079	820419	FID	5	820723	TES	PRR/CI	TES	RDC		AUX BLDG FUEL HANDLING STRUCTURE

COMMENT: BASED ON PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR ITP, THE AUXILIARY BUILDING AND FUEL HANDLING BUILDING ARE BEING COMPLETELY REANALYZED. THIS FILE IS COMBINED WITH EOI 1092 AS AN ERROR CLASS A.

1079	820419	FID	6	820723	TES	CR	NONE	RDC	NO	AUX BLDG FUEL HANDLING STRUCTURE

COMMENT: ONE FH BUILDING DRAWING SHOWS STEEL CROSS MEMBER BETWEEN TWO COLUMNS. ANOTHER PG&E DRAWING AND RLCA FIELD INSPECTION SHOWS ROLL-UP DOOR. RLCA TO COMPLETE ANALYSIS USING AS-BUILT INFORMATION. THIS FILE COMBINED WITH EOI 1092 AS AN ERROR CLASS A.

1080	820422	ICD	0	820422	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 103 STRESS DIFF

COMMENT: THE STRESS DIFFERENCES BETWEEN THE DESIGN ANALYSIS 8-3 AND VERIFICATION ANALYSIS RLCA 103 EXCEED 15% . ALL THE STRESSES ARE BELOW ALLOWABLE.

1080	820422	ICD	1	820823	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 103 STRESS DIFF

COMMENT: RLCA NOTED ELEVEN DIFFERENCES BETWEEN PIPING ANALYSIS RLCA 103 AND PG&E ANALYSIS 8-3.

1080	820422	ICD	2	820903	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 103 STRESS DIFF

COMMENT: RLCA FILE P105-4-521-025 R0; RLCA PIPING ANALYSIS RLCA103 SEQ.NOS K152FOZ, K152P0Z AND K152R8T (820408,820409, 820423); PG&E ANALYSIS 8-3 R1. REVIEWED THE 11 DIFFERENCES BETWEEN THE DESIGN AND VERIFICATION ANALYSES. ITEMS 3, 6, 8 & 9 OF THIS FILE ARE CLASSIFIED AS ERRORS. ALL STRESSES ARE LESS THAN ALLOWABLE.

1080	820422	ICD	3	830215	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 103 STRESS DIFF

COMMENT: STRESS DIFFERENCES BTWN DESIGN ANAL 8-3 AND VERIFICATION ANAL RLCA 103 EXCEED 15%. ALL STRESSES BELOW ALLOWABLE. RLCA REVIEWED 11 DIFFERENCES BTWN ANALYSES. ITEMS 3, 6, 8, AND 9 OF THIS FILE CLASSIFIED AS ERRORS. NO MODS PER DCP RESOLUTIO AND COMPLETION SHEETS, R.R. FRAY 830211. ERROR C.

1081	820422	ICD	0	820422	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 104 STRESS DIFF.

COMMENT: THE STRESS DIFFERENCES BETWEEN THE DESIGN ANALYSIS 4-2 & 4-3 AND VERIFICATION ANALYSIS RLCA 104 EXCEED 15% . ALL STRESSES ARE BELOW ALLOWABLE.

1081	820422	ICD	1	820824	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 104 STRESS DIFF.

COMMENT: THE FIVE DIFFERENCES BETWEEN RLCA PIPING ANALYSIS 104 AND PG&E ANALYSES 4-2 AND 4-3 HAVE BEEN NOTED. ALL STRESSES ARE BELOW ALLOWABLE.

1081	820422	ICD	2	820831	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 104 STRESS DIFF.

COMMENT: PG&E ANALYSIS 4-2 REV.9, 4-3 REV.16 ; RLCA ANALYSIS RLCA 104 (SEQUENCE NO. K15RF7J & K15TSCF); RLCA DOCUMENTATION P105-4-521-044 R.1 THE FIVE DIFFERENCES BETWEEN THE DESIGN AND VERIFICATION ANALYSES HAVE BEEN REVIEWED. ALL STRESSES ARE BELOW ALLOWABLE.

1081	820422	ICD	3	830215	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 104 STRESS DIFF.

COMMENT: STRESS DIFFERENCES BETWEEN DESIGN ANALYSIS 4-2 AND 4-3 AND VERIFICATION ANALYSIS RLCA 104 EXCEED 15%. ALL STRESSES BELOW ALLOWABLE. RLCA REVIEWED 5 DIFFERENCES BETWEEN ANALYSES. NO MODS PER RESOLUTION AND COMPLETION SHEETS, R.R. FRAY 830211. ERROR CLASS C.

1082	820422	ICD	0	820422	RLCA	OIR	RLCA	JCT		VALVE FCV-95 ANALYSIS. AUXILIARY BUILDING.

COMMENT: PG&E AND RLCA NATURAL FREQUENCY DIFFER BY MORE THAN 15%

1082	820422	ICD	1	820618	RLCA	PPRR/CI	TES	JCT		VALVE FCV-95 ANALYSIS. AUXILIARY BUILDING.

COMMENT: CONSERVATIVE DIMENSIONS ALONG WITH DIFFERENCES IN WEIGHTS AND MODELING RESULTED IN A LOW DESIGN FREQUENCY.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1082	820422	ICD	2	820701	TES	PRR/CI	TES	JCT		VALVE FCV-95 ANALYSIS. AUXILIARY BUILDING.
COMMENT: DIFFERENCES DUE TO DIFFERENT WEIGHT, DIMENSIONS AND MODELING. TES PV TEAM REVIEW REPORT 820630.										
1082	820422	ICD	3	820701	TES	CR	NONE	JCT	NO	VALVE FCV-95 ANALYSIS. AUXILIARY BUILDING.
COMMENT: 15% VERIFICATION CRITERIA EXCEEDED. DIFFERENCES DUE TO WEIGHT, DIMENSIONS AND MODELING RESOLVED. PG&E COMPLETION REPORT 820722. CLOSED ITEM.										
1083	820422	FID	0	820422	RLCA	OIR	RLCA	CHK		HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: FIELD INSPECTION SHOWED ACTUATOR BRACKET TO DAMPER FLANGE WELD, DAMPER FLANGE THICKNESS AND ACTUATOR ORIENTATION DISCREPANCIES.										
1083	820422	FID	1	820510	RLCA	PER/A	TES	CHK		HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: RLCA FIELD INSPECTION SHOWED PARTIAL LENGTH FILLET WELDS AND RLCA ANALYSIS INDICATED AN OVERSTRESS IN THE WELD.										
1083	820422	FID	2	820708	TES	OIR	RLCA	CHK		HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: ITR-1, 3.5.6.4 RLCA TO REANALYZE. WELD ASSESSMENT INCORRECT BASED ON TES TRIP TO RLCA ON 820616 AND REVIEW OF RLCA CALCULATION P105-4-561-001, TES INDICATED (1) WELD STRESS CALCULATION CONSERVATIVE,(2) 1/2" BOLTS FASTENING ACTUATOR TO FLOOR AND CEILING STANCHIONS QUESTIONABLE AND RLCA SHOULD REVIEW.										
1083	820422	FID	3	820819	RLCA	PRR/CI	TES	CHK		HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: WELDS FOR ACTUATOR BRACKET TO DAMPER FLANGE WERE ORIGINALLY OBSERVED BY RLCA TO BE FILLET WELDS, AND WERE DETERMINED TO BE INADEQUATE. SUBSEQUENT RLCA INSPECTION SHOWED WELD TO BE FULL LENGTH, FULL PENETRATION. RLCA REANALYZED (P-105-4-561-001. REV.1)WELD AND FOUND ADEQUATE. 1/2" BOLTS ALSO FOUND ADEQUATE.										
1083	820422	FID	4	820910	TES	PRR/CI	TES	CHK		HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: DELETE FROM ITR-1. ORIGINAL EOI NOTED 3 CONCERNS. LAST 2 (FLANGE THK. AND ACTUATOR ORIENTATION) TRANSFERRED TO EOI 1102, WHICH WILL INCLUDE EXAMINATION OF 1/2" BOLTS TO CONFIRM STATEMENT IN 1083-3 OF STRESS ADEQUACY. RLCA REINSPECTION AND REANALYSIS SHOWS THAT DAMPER FLANGE WELD IS ADEQUATE.										
1083	820422	FID	5	820910	TES	CR	NONE	CHK	NO	HVAC VOLUME DAMPER 7A. AUX. BUILDING.
COMMENT: FIELD INSPECTION SHOWED ACTUATOR BRACKET TO DAMPER FLANGE WELD, DAMPER FLANGE THICKNESS AND ACTUATOR ORIENTATION DISCREPANCIES. RLCA REINSPECTION AND REANALYSIS OF DAMPER FLANGE WELD SHOWS WELD TO BE ADEQUATE. FLANGE THICKNESS, R ORIENTATION AND 1/2" BOLT STRESS CONCERNS TRANSFERRED TO EOI 1102.										
1084	820514	ICD	0	820514	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 102 STRESS DIFF.
COMMENT: THE STRESS DIFFERENCES BETWEEN THE DESIGN ANALYSES 8-24 & 8-25 AND VERIFICATION ANALYSIS RLCA 102 EXCEED 15% . ALL STRESSES ARE BELOW ALLOWABLE.										
1084	820514	ICD	1	820719	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 102 STRESS DIFF.
COMMENT: TWELVE DIFFERENCES BETWEEN RLCA PIPING ANALYSIS 102 AND PG&E ANALYSES 8-24 & 8-25 HAVE BEEN NOTED. ALL STRESSES ARE BELOW ALLOWABLE. FILE ERRONEOUSLY LABELED RLCA 107.										
1084	820514	ICD	2	820823	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 102 STRESS DIFF.
COMMENT: RLCA NOTED TWELVE DIFFERENCES BETWEEN PIPING ANALYSIS RLCA 102 AND PG&E ANALYSES 8-24 & 8-25. SLIGHT CHANGES WERE MADE FROM REV.1										
1084	820514	ICD	3	820910	TES	ER/C	PG&E	RDF	NO	RLCA PIPING ANALYSIS 102 STRESS DIFF.
COMMENT: RLCA FILES P105-4-521-037 REV.0,-059 REV.0 ; RLCA PIPING ANALYSIS 102 (SEQ #S K15TMB7 & K15TLIR BOTH DATED 5/12/82; PG&E PIPING ANALYSES 8-24 REV.2, 8-25 REV.8, AND 8-31 DATED 7/1/80. THE 12 DIFFERENCES BETWEEN THE DESIGN AND VERIFICATION ANALYSES HAVE BEEN REVIEWED. ALL STRESSES BELOW ALLOWABLE.										
1084	820514	ICD	4	830215	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 102 STRESS DIFF.
COMMENT: STRESS DIFFERENCES BETWEEN DESIGN ANALYSIS 8-24 AND 8-25 AND VERIFICATION ANALYSIS RLCA 102 EXCEED 15%. ALL STRESSES BELOW ALLOWABLE. RLCA REVIEWED 12 DIFFERENCES BETWEEN THE ANALYSES. NO MODS PER RESOLUTION AND COMPLETION SHEETS, R.R. GRAY 830211. ERROR CLASS C.										
1085	820514	ICD	0	820514	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 105 STRESS DIFF.
COMMENT: THE DIFFERENCES BETWEEN THE DESIGN ANALYSIS 3-5 AND VERIFICATION ANALYSIS RLCA 105 EXCEED 15% . ALL STRESSES ARE BELOW ALLOWABLE.										
1085	820514	ICD	1	820721	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 105 STRESS DIFF.
COMMENT: RLCA NOTED THIRTEEN DIFFERENCES BETWEEN PIPING ANALYSIS RLCA 105 AND PG&E ANALYSIS 3-5.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1085	820514	ICD	2	820823	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 105 STRESS DIFF.
COMMENT: RLCA NOTED THIRTEEN DIFFERENCES BETWEEN PIPING ANALYSIS RLCA 105 AND PG&E ANALYSIS 3-5. MINOR CHANGES WERE MADE FROM REV.1.										
1085	820514	ICD	3	820831	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 105 STRESS DIFF.
COMMENT: PG&E ANALYSIS 3-5 R.4 ; RLCA ANALYSIS 105 (SEQUENCE NO. K15TM6B) ; RLCA DOCUMENTATION P105-4-521-035 R.0, -056 R.0, THE 13 DIFFERENCES BETWEEN THE DESIGN AND VERIFICATION ANALYSES HAVE BEEN REVIEWED. ALL STRESSES / E BELOW ALLOWABLE.										
1085	820514	ICD	4	830215	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 105 STRESS DIFF.
COMMENT: STRESS DIFFERENCES BETWEEN DESIGN ANALYSIS 3-5 AND VERIFICATION ANALYSIS RLCA 105 EXCEED 15%. ALL STRESSES BELOW ALLOWABLE. RLCA REVIEWED 13 DIFFERENCES BETWEEN THE ANALYSES. NO MODS PER DCP RESOLUTION AND COMPLETION SHEETS, R.R. FRAY 830211. ERROR CLASS C.										
1086	820514	ICD	0	820514	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 108 STRESS DIFF.
COMMENT: THE STRESS DIFFERENCES BETWEEN THE DESIGN ANALYSIS 2-17 AND VERIFICATION ANALYSIS RLCA 108 EXCEEDS 15% . ALL STRESSES ARE BELOW ALLOWABLE.										
1086	820514	ICD	1	820824	RLCA	PER/C	TES	RDF		RLCA PIPING ANALYSIS 108 STRESS DIFF.
COMMENT: ITR-1, 3.2.4. RLCA CHANGED 29 ITEMS IN VERIFICATION ANALYSIS RLCA 108 AND PIPE STRESSES NOW AGREE WITH PG&E ANALYSIS 2-17 WITHIN 20% . ALL STRESSES BELOW ALLOWABLE.										
1086	820514	ICD	2	820910	TES	ER/C	PG&E	RDF		RLCA PIPING ANALYSIS 108 STRESS DIFF.
COMMENT: RLCA FILES P105-4-521-038 REV.1; RLCA PIPING ANALYSIS RLCA 108(SEQ #S K15ORV AND K154H4B DATED 6-4-82 & 5-1-82, RESPECTIVELY; PG&E ANALYSIS 2-17 R.10. THE 29 DIFFERENCES BETWEEN THE DESIGN AND VERIFICATION ANALYSES HAVE BEEN REVIEWED. ALL STRESSES BELOW ALLOWABLE,										
1086	820514	ICD	3	830215	TES	CR	NONE	RDF	NO	RLCA PIPING ANALYSIS 108 STRESS DIFF.
COMMENT: STRESS DIFFERENCES BETWEEN DESIGN ANALYSIS 2-17 AND VERIFICATION ANALYSIS RLCA 108 EXCEED 15%. RLCA CHANGED 29 ITEM IN VERIFICATION ANALYSIS AND STRESSES NOW AGREE WITHIN 20%. ALL STRESSES BELOW ALLOWABLE. RLCA HAS REVIEWED ALL DIFFERENCES NO MODS PER DCP RESOLUTION AND COMPLETION SHEETS, R.R. FRAY 830211. ERROR CLASS C.										
1087	820514	ICD	0	820514	RLCA	OIR	RLCA	CHK		HOT SHUTDOWN REMOTE CONTROL PANEL. AUX. BLDG.
COMMENT: THE INDEPENDENTLY CALCULATED RESULTS DIFFER FROM THOSE IN THE DESIGN ANALYSIS BY MORE THAN 15%. ALL STRESSES ARE BELOW ALLOWABLE. RLCA TO INVESTIGATE THE REASONS FOR THE DIFFERENCES.										
1087	820514	ICD	1	820526	RLCA	PPRR/CI	RLCA	CHK		HOT SHUTDOWN REMOTE CONTROL PANEL. AUX. BLDG.
COMMENT: SEVERAL CRITICAL AREAS WERE NOT EXPLICITLY EXAMINED IN THE PG&E ANALYSIS. THE RLCA ANALYSIS SHOWED ALL STRESSES TO BE UNDER ALLOWABLE, AND VERY LOW.										
1087	820514	ICD	2	820528	RLCA	PPRR/CI	TES	CHK		HOT SHUTDOWN REMOTE CONTROL PANEL. AUX. BLDG.
COMMENT: THE RLCA ANALYSIS, WHICH WAS MORE EXTENSIVE THAN THE PG&E DESIGN ANALYSIS, SHOWED ALL STRESSES TO BE VERY LOW.										
1087	820514	ICD	3	820623	TES	PRR/CI	TES	CHK		HOT SHUTDOWN REMOTE CONTROL PANEL. AUX. BLDG.
COMMENT: TES REVIEWED RESULTS OF RLCA CALCULATION P105-4-570-004.										
1087	820514	ICD	4	820623	TES	CR	NONE	CHK	NO	HOT SHUTDOWN REMOTE CONTROL PANEL. AUX. BLDG.
COMMENT: INDEPENDENTLY CALCULATED RESULTS DIFFER FROM THOSE IN DESIGN ANALYSIS BY MORE THAN 15%. THE RLCA ANALYSIS, WHICH WAS MORE EXTENSIVE THAN THE DESIGN ANALYSIS, SHOWED ALL STRESSES TO BE VERY LOW AND BELOW ALLOWABLES. TES HAS REVIEWED THE RLCA CALCULATIONS. CLOSED ITEM.										
1088	820514	ICD	0	820514	RLCA	OIR	RLCA	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.
COMMENT: INDEPENDENTLY CALCULATED RESULTS DIFFER BY MORE THAN 15% THAN THOSE OF DESIGN; ANCHOR BOLTS ARE OVERSTRESSED.										
1088	820514	ICD	1	820618	RLCA	PER/A	TES	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.
COMMENT: ITR-1, 3.5.4.4 ; RLCA RECOMMENDS PG&E TO RE-EVALUATE.										
1088	820514	ICD	2	820817	TES	OIR	RLCA	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.
COMMENT: ITR-1, 3.5.4.4. BASED ON DETAILED REVIEW OF RLCA P105-4-550-022 TES FEELS ; RLCA FINDINGS NOT CONSIST. W/ INTENT OF APP. XVII & RLCA CALCS. GO BEYOND THIS INTENT ; TES RECOMMENDS, RLCA TO REVIEW & REVISE CALC. PKGE.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1088	820514	ICD	3	821103	RLCA	PER/A	TES	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: THE INDEPENDENT CALCULATIONS SHOW THE STRESSES IN THE CCWHX NOZZLES TO EXCEED THE ALLOWABLES. THIS CALCULATION ADDRESSES THE TES CONCERNS NOTED IN EDI 1088 REV.2

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1088	820514	ICD	4	821119	TES	OIR	RLCA	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: RLCA CONCERN OF R.3 NOT VALID. DIV. 2 STRESS CRITERIA OF SECT. VIII WAS USED RATHER THAN DIV. 1. BIJLAARD STRESSES INCLUDING SECONDARY BENDING STRESSES WERE COMPARED W/HOSGRI CRITERIA (TABLE 7-1) WHICH LIMIT PRIMARY STRESSES ONLY. TES FEELS SADDLE SUPT. MAY BE QUESTIONABLE. RLCA SHOULD ADDRESS R.2 COMMENT ON ANCHOR BOLTS. RLCA REVIEW & REVISE CALC.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1088	820514	ICD	5	830325	RLCA	OIR	RLCA	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: INDEPENDENTLY CALCULATED RESULTS DIFFER FROM THOSE IN THE DESIGN ANALYSIS BY MORE THAN 15%. SEVEN ITEMS WERE NOTED IN THE DESIGN ANALYSIS. THE INDEPENDENT ANALYSIS SHOWS ALL LOADS AND STRESSES TO BE BELOW ALLOWABLES.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1088	820514	ICD	6	830325	RLCA	PER/C	TES	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: INDEPENDENTLY CALCULATED RESULTS DIFFER FROM THOSE IN THE DESIGN ANALYSIS BY MORE THAN 15%. SEVEN ITEMS WERE NOTED IN THE DESIGN ANALYSIS. THE INDEPENDENT ANALYSIS SHOWS ALL LOADS AND STRESSES TO BE BELOW ALLOWABLES.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1088	820514	ICD	7	830407	TES	ER/C	PG&E	PPR		COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: RLCA INDEPENDENT (CALCULATION) RESULTS DIFFER FROM THOSE IN THE DESIGN ANALYSIS BY MORE THAN 15%. SEVEN ITEMS ARE OBSERVED IN THE DESIGN ANALYSIS. FOUR OUT OF SEVEN ITEMS LEAD TO CLASS 'C' ERROR. HOWEVER, THE INDEPENDENT ANALYSIS SHOWS ALL LOADS AND STRESSES TO BE BELOW ALLOWABLES.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1088	820514	ICD	8	830414	TES	CR	NONE	PPR	NO	COMPONENT CLG WATER HEAT EXCH., TURBINE BLDG.

COMMENT: RLCA INDEPENDENT ANALYSIS RESULTS DIFFER FROM THOSE IN THE DESIGN ANALYSIS BY MORE THAN 15%. FOUR OUT OF SEVEN OBSERVED ITEMS LEAD TO CLASS 'C' ERROR. THE INDEPENDENT ANALYSIS SHOWS ALL LOADS AND STRESSES TO BE BELOW ALLOWABLES. NO PHYSICAL MODIFICATION WILL BE APPLIED PER DCP COMPLETION SHEET DATED 830413.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1089	820521	OD	0	820521	RLCA	OIR	RLCA	RDF		PIPE SUPT. 3/30A, LINE 593, AUX. BUILDING.

COMMENT: PG&E DWG 049304, SHEET 19, REV.3 SHOWS PIPE SUPPORT 3/30A TO BE LOCATED IN AREA F(CONTAINMENT BUILDING). RLCA FIELD INSPECTION SHOWS THIS SUPPORT TO BE LOCATED IN AREA L(AUXILIARY BUILDING).

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1089	820521	OD	1	820607	RLCA	PPRR/DEV	TES	RDF		PIPE SUPT. 3/30A, LINE 593, AUX. BUILDING.

COMMENT: PG&E PIPING ANALYSIS 2-17 LOCATES THIS SUPPORT IN THE CORRECT AREA.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1089	820521	OD	2	820619	TES	PRR/DEV	PG&E	RDF		PIPE SUPT. 3/30A, LINE 593, AUX. BUILDING.

COMMENT: PG&E DRAWING 049304, SHEET 19,REV.3 (RLCA FILE P105-4-454). PG&E PIPING ANALYSIS 2-17 DATED 7/13/79 (RLCA FILE P105-4-432). PG&E DRAWING 101942, REV.1. THE SUPPORT 3/30A IS LOCATED CORRECTLY ON THE LOCATION PLAN, BUT INCORRECTLY IN THE 'AREA BLOCK'.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1089	820521	OD	3	820619	TES	CR	NONE	RDF	NO	PIPE SUPT. 3/30A, LINE 593, AUX. BUILDING.

COMMENT: SUPPORT 3/30A DRAWING 049304 SHT 19 R3 SHOWS SUPPORT IN AREA F(CONTAINMENT BLDG.) RLCA FIELD INSPECTION AND DESIGN ANALYSIS 2-17 LOCATES SUPPORT IN AREA L(AUX. BLDG.) DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820611.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1090	820521	OD	0	820521	RLCA	OIR	RLCA	RDF		PIPE SUPT. 11/92SL,LINE 593,PIPE RACK,AUX. BLDG.

COMMENT: PG&E DWG 049309, SHEET 141, REV.1 SHOWS PIPE SUPPORT 11/92SL TO BE LOCATED IN AREA F(CONTAINMENT INTERIOR). RLCA FIELD INSPECTION SHOWS THIS SUPPORT TO BE LOCATED IN AREA FE(PIPE RACK).

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1090	820521	OD	1	820607	RLCA	PPRR/DEV	TES	RDF		PIPE SUPT. 11/92SL,LINE 593,PIPE RACK,AUX. BLDG.

COMMENT: PG&E PIPING ANALYSIS 2-17 LOCATES THIS SUPPORT IN CORRECT AREA.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1090	820521	OD	2	820619	TES	PRR/DEV	PG&E	RDF		PIPE SUPT. 11/92SL,LINE 593,PIPE RACK,AUX. BLDG.

COMMENT: PG&E DRAWING 049309, SHEET 141, REV.1 (RLCA FILE P105-4-454).PG&E PIPING ANALYSIS 2-17 DATED 7/13/79 (RLCA FILE P105-4-432).PG&E DRAWING 101942, REV.1. THE SUPPORT 11/92SL IS LOCATED CORRECTLY ON THE LOCATION PLAN, BUT INCORRECTLY IN THE 'AREA BLOCK'.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1090	820521	OD	3	820619	TES	CR	NONE	RDF	NO	PIPE SUPT. 11/92SL,LINE 593,PIPE RACK,AUX. BLDG.

COMMENT: SUPPORT 11/92SL DRAW 049309 SHT. 141 R.1 SHOWS SUPPORT IN AREA F(CONTAINMENT BLDG.) RLCA FIELD INSPECTION AND DESIGN ANALYSIS 2-17 LOCATES SUPPORT IN AREA FE(PIPE RACK). DEVIATION. NO PHY. MODS. PER PG&E RESOLUTION SHEET 820611.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1091	820521	ICD	0	820521	RLCA	OIR	RLCA	RDC		AUX BLDG FUEL HANDLING BLDG

COMMENT: PG&E DRAWINGS SHOWING FUEL HANDLING BUILDING CROSS BRACING ARE NOT CONSISTENT.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1091	820521	ICD	1	820611	RLCA	PPRR/OIP	TES	RDC		AUX BLDG FUEL HANDLING BLDG
COMMENT: PG&E WILL PREPARE AN 'AS-BUILT' DRAWING OF BUILDING AND WILL TAKE ACTION.										
1091	820521	ICD	2	820619	TES	PRR/OIP	PG&E	RDC		AUX BLDG FUEL HANDLING BLDG
COMMENT: PG&E WILL PREPARE AN 'AS-BUILT' DRAWING OF BUILDING AND WILL TAKE ACTION.										
1091	820521	ICD	3	820709	TES	OIR	RLCA	RDC		AUXILIARY BLDG - FUEL HANDLING BLDG
COMMENT: ITR-1, 3.1.4 RLCA TO EVALUATE PG&E RESOLUTION SHEET 820628. NO INCONSISTENCY EXISTS ON DRAWINGS; RLCA WILL TAKE ACTION.										
1091	820521	ICD	4	820729	RLCA	PPRR/CI	TES	RDC		AUXILIARY BLDG - FUEL HANDLING BLDG
COMMENT: FIELD CONFIGURATION MATCHES DRAWINGS. ANALYSIS AND FIELD CONFIGURATION DO NOT MATCH. BASED ON PG&E ITP PRESENTED ON JULY 14-16, 1982, THE AUX BUILDING, INCLUDING FHB, IS BEING COMPLETELY REANALYZED. RLCA RECOMMENDS COMBINING THIS FILE WITH FILE 1092.										
1091	820521	ICD	5	820810	TES	PRR/CI	TES	RDC		AUXILIARY BLDG - FUEL HANDLING BLDG
COMMENT: DELETE FROM ITR-1. TES FIELD INSPECTION AND DRAWING REVIEW (8/26/82) SHOWS THAT BRACING MATCHES DESIGN DWG. THIS FILE COMBINES INTO EOI 1092 (ER/A) BECAUSE ANALYSIS INPUT DID NOT AGREE WITH DRAWING NOR FIELD CONDITION.										
1091	820521	ICD	6	820810	TES	CR	NONE	RDC	NO	AUXILIARY BLDG - FUEL HANDLING BLDG
COMMENT: RLCA FIRST STATED THAT DWGS DID MATCH FHB BRACING. PG&E REPLIED THAT RLCA FINDING WAS IN ERROR. TES FIELD INSPECTION SHOWED PG&E WAS CORRECT. HOWEVER, ANALYSIS WAS NOT CONSISTENT WITH DWGS NOR FIELD. THIS FILE COMBINED INTO 1092 (ER/A) BECAUSE OF PG&E ITP.										
1092	820611	FID	0	820611	RLCA	OIR	RLCA	RDC		FUEL HANDLING BLDG
COMMENT: FIGURES 4-164, 4-165 & 4-166 CONTAINED IN CHAPTER 4 OF THE HOSGRI REPORT DO NOT AGREE WITH FIGURES 4-164 (E-52), 4-165 (E-53) & 4-166 (E-54) CONTAINED IN APPENDIX E OF THE HOSGRI REPORT. THE RLCA FIELD INSPECTION DOES NOT SHOW THE ADDED CROSS BRACING IN FIGURE 4-166 OF APPENDIX E.										
1092	820611	FID	1	820611	RLCA	PPRR/OIP	TES	RDC		FUEL HANDLING BLDG
COMMENT: PG&E TO PREPARE AN AS-BUILT DRAWING OF THE FUEL HANDLING BUILDING AND REVISE THE HOSGRI FIGURES.										
1092	820611	FID	2	820621	TES	PRR/OIP	PG&E	RDC		FUEL HANDLING BUILDING
COMMENT: PG&E TO PROVIDE AS-BUILT DRAWING AND REVIEW HOSGRI FIGURES.										
1092	820611	FID	3	820720	TES	OIR	RLCA	RDC		FUEL HANDLING BUILDING
COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14 AND 16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUXILIARY BUILDING AND THE FHB ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.										
1092	820611	FID	4	820721	RLCA	PER/A	TES	RDC		FUEL HANDLING BUILDING
COMMENT: PG&E TO PROVIDE AS-BUILT DRAWING AND REVIEW HOSGRI FIGURES. RECOMMENDS COMBINING IT WITH 990, 991, 1027 AND 1079.										
1092	820611	FID	5	820723	TES	ER/A	PG&E	RDC		FUEL HANDLING BUILDING
COMMENT: BASED ON PG&E ITP, PRESENTED ON JULY 14 TO 16, 1982, THE AUX BUILDING AND FHB ARE BEING COMPLETELY REANALYZED. HENCE, EOI'S 990, 991, 1027 AND 1079, WHICH ALSO CONCERN THE FHB, ARE COMBINED INTO THIS EOI.										
1092	820611	FID	6	820810	TES	ER/A	PG&E	RDC	YES	FUEL HANDLING BUILDING REEVALUATION
COMMENT: FIGURES IN CHAPT.4 OF HOSGRI DO NOT MATCH WITH APP.E. RLCA DOES NOT SHOW SOME CROSS BRACING. BASED ON PG&E PRESENTATION (JULY14-16, 1982) OF ITP, THE AUX BUILDING AND FH BUILDING ARE BEING COMPLETELY REANALYZED. THIS EOI IS COMBINED WITH 990, 991, 1027, 1079 AND 1091 (1091 ADDED TO LIST FROM REV. 5).										
1092	0		7	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1092	0		8	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										

	REV. 0		LATEST REV.			ACTION	PG&E			
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1092	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

1092	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

1093	820618	ICD	0	820618	RLCA	OIR	RLCA	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: HOSGRI RESPONSE SPECTRA IS NOT AVAILABLE FOR THE FOLLOWING AREAS : FAN ROOM ELEVATION 163-175 FT., L AND 18 COLUMN LINES; AND VENTILATION ROOM ELEVATION 140-165 FT., V AND 6(4) COLUMN LINES.

1093	820618	ICD	1	820618	RLCA	PPRR/OIP	TES	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: RLCA RECOMMENDS THAT PG&E IDENTIFY ALL CLASS 1 PIPING AND COMPONENTS IN THESE AREAS.

1093	820618	ICD	2	820629	TES	PRR/OIP	PG&E	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: PG&E TO IDENTIFY CLASS 1 PIPING AND COMPONENTS IN THESE AREAS.

1093	820618	ICD	3	820720	TES	OIR	RLCA	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUX BUILDING AND FHB ARE BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

1093	820618	ICD	4	820721	RLCA	PPRR/CI	TES	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: RLCA RECOMMENDS THAT THIS FILE BE CLOSED AND COMBINED WITH EOI 1097.

1093	820618	ICD	5	820722	TES	PRR/CI	TES	RDC		AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: THIS FILE COMBINED INTO EOI 1097 (ER/AB).

1093	820618	ICD	6	820722	TES	CR	NONE	RDC	NO	AUXILIARY BUILDING- FAN RM & VENTILATION RM.

COMMENT: HOSGRI SPECTRA NOT AVAILABLE FOR FAN ROOM AND VENTILATION ROOM. BASED ON PG&E ITP PRESENTED ON JULY 14 TO 16, 1982, THE AUX BUILDING IS BEING REANALYZED. THIS FILE COMBINED INTO 1097 (ER/AB).

1094	820705	OD	0	820705	RLCA	OIR	RLCA	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: THE LOCATION OF BORINGS 2 AND 3 AS PRESENTED IN ' A GEOPHYSICAL INVESTIGATION OF COMPACTED EARTH FILL AT DIABLO CANYON NUCLEAR POWER PLANT, MARCH 8, 1978' IS NOT CONSISTENT. PLATE 1 SHOWS BORING 3 TO BE WEST OF BORING 2. PLATE 6, WHICH AGREES WITH THE FIELD BORING LOGS, SHOWS BORING 3 TO BE EAST OF BORING 2.

1094	820705	OD	1	820705	RLCA	PPRR/OIP	TES	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: PG&E TO CLARIFY THE LOCATION OF BORINGS 2 AND 3.

1094	820705	OD	2	820709	TES	PRR/OIP	TES	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: VOID, REVISION ISSUED BY TES ON 820709 WAS INTENDED TO BE REV.2, BUT WAS MISNUMBERED AS REV.3. THEREFORE REV.2 IS VOIDED.

1094	820705	OD	3	820709	TES	PRR/OIP	PG&E	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: PG&E TO CLARIFY LOCATION OF BORINGS.
PG&E RESOLUTION SHEET, RECIEVED ON 8/11/82, INDICATES THAT APPROPRIATE CORRECTIONS WERE MADE.

1094	820705	OD	4	820927	TES	OIR	RLCA	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: BASED ON PG&E RESOLUTION SHEET, A CORRECTION TO PLATE 1 WAS MADE. TES AND RLCA WILL RECONSIDER THIS FILE.

1094	820705	OD	5	821011	RLCA	PPRR/DEV	TES	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: BASED ON THE PG&E RESOLUTION SHEET, A CORRECTION TO PLATE 1 WAS MADE.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1094	820705	OD	6	821018	TES	PRR/DEV	PG&E	RDC		INTAKE STRUCTURE SOILS REVIEW

COMMENT: A CORRECTION TO PLATE 1 WAS MADE AS DESCRIBED ON PG&E RESOLUTION SHEET RECIEVED 820709.

1094	820705	OD	7	821220	TES	CR	NONE	RDC	NO	INTAKE STRUCTURE SOILS REVIEW

COMMENT: LOCATION OF BORINGS 2 AND 3 IN REPORT NOT CONSISTENT. PLATE 1 SHOWS BORING 3 WEST OF BORING 2. PLATE 6, WHICH AGREES WITH FIELD BORING LOGS, SHOWS BORING 3 EAST OF BORING 2. PG&E CLARIFIED AND MADE CORRECTION TO PLATE 1 AS DESCRIBED ON RESOLUTION SHEET 820802. BASED ON THIS RESPONSE, FILE WAS RECLASSIFIED AS DEVIATION.

1095	820709	SID	0	820709	RLCA	OIR	RLCA	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: INPUT TIME HISTORY MAY NOT CONSERVATIVELY ENVELOPE HOSGRI DESIGN SPECTRA AT CERTAIN FREQUENCIES. RLCA TO ASSESS THE TECHNICAL SIGNIFICANCE OF THIS ITEM.

1095	820709	SID	1	821102	RLCA	PPRR/OIP	TES	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: PROVIDE ALL LICENSING CRITERIA AND/OR CORRESPONDENCE RELATED TO FIT OF INPUT TIME HISTORIES TO DESIGN SPECTRA AND PROCEDURES USED TO 'SMOOTH' RESULTANT FLOOR RESPONSE SPECTRA. IF NOT AVAILABLE, DELINEATE THE CRITERIA USED TO ACCEPT THESE TIME HISTORY FITS AND THE RESULTANT SPECTRA.

1095	820709	SID	2	821116	TES	PRR/OIP	PG&E	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: PG&E TO PROVIDE ALL LICENSING CRITERIA AND/OR CORRESPONDENCE RELATED TO FIT OF INPUT TIME HISTORIES TO DESIGN SPECTRA AND PROCEDURES USED TO 'SMOOTH' RESULTANT FLOOR RESPONSE SPECTRA. IF NOT AVAILABLE, DELINEATE CRITERIA USED TO ACCEPT THESE TIME HISTORY FITS AND RESULTANT SPECTRA.

1095	820709	SID	3	830210	TES	OIR	RLCA	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: RLCA AND TES TO REVIEW DCP COMPLETION SHEET FROM R.R. FRAY DATED 830127 AND DETERMINE IF DCP RESPONSE IS SATISFACTORY AND WHETHER THIS FILE CAN BE RESOLVED.

1095	820709	SID	4	830224	RLCA	PPRR/CI	TES	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: NRC STANDARD REVIEW PLAN (SECT. 3.7.1) 'FIT' CRITERIA USED BY IDVP AS GUIDE FOR NEWMARK INPUT TH SPECTRA AND HOSGRI DESIGN SPECTRA. FREQ. BAND 10-33 HZ. INCLUDES SIGNIFICANT BUILDING MODES. 'FIT' SATISFIES ABOVE CRITERIA, THEREFORE RLCA CONSIDERS INPUT TH ADEQUATELY ENVELOPES DESIGN BASIS SPECTRA.

1095	820709	SID	5	830308	TES	PRR/CI	TES	RDC		INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: BASED ON RLCA STUDY, DETERMINED THAT TIME HISTORY SATISFIES INTENT OF NRC STANDARD REVIEW PLAN (SECT. 3.7.1). THEREFORE, IDVP FINDS THAT SPECTRA FROM INPUT TIME HISTORY PROVIDES ACCEPTABLE FIT TO DESIGN BASIS SPECTRA.

1095	820709	SID	6	830308	TES	CR	NONE	RDC	NO	INPUT TIME-HISTORY, AUXILIARY BUILDING.

COMMENT: INPUT TIME HISTORY MAY NOT CONSERVATIVELY ENVELOPE HOSGRI DESIGN SPECTRA AT CERTAIN FREQUENCIES. RLCA TO ASSESS THE TECH SIGN OF THIS ITEM. BASED ON RLCA STUDY, DETERMINED THAT TIME HISTORY SATISFIES INTENT OF NRC STD REVIEW PLAN SECT. 3.7.1. IDVP FINDS THAT SPECTRA FROM INPUT TIME HISTORY PROVIDES ACCEPTABLE FIT TO DESIGN BASIS SPECTRA. CI.

1096	820709	ICD	0	820709	RLCA	OIR	RLCA	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: STRESSES FOR SUPPLY FAN S-31 DIFFER BETWEEN VERIFICATION AND CORRESPONDING ANALYSIS BY MORE THAN 15%

1096	820709	ICD	1	820713	RLCA	PER/A	TES	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: VERIFICATION ANALYSIS SHOWS STRESS ABOVE ALLOWABLE.

1096	820709	ICD	2	821006	TES	OIR	RLCA	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: RLCA FOUND OVERSTRESS AT TWO (X4 W/SYMMETRY) LOCATIONS, BUT HAD NOT CONSIDERED STIFFENING & STRENGTHENING EFFECT OF HOUSING TO BASE STRUCTURAL BEAM WELDS. THIS EFFECT SHOULD BE EVALUATED.

1096	820709	ICD	3	821221	RLCA	PER/A	TES	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: THE STRESSES IN THE BOLTS BETWEEN THE BASE ANGLES AND WIDE FLANGE BEAMS EXCEED THE ALLOWABLES. THE MODEL OF THE SUPPLY FAN S-31 INCORPORATES PORTIONS OF THE FAN HOUSING AND ADDRESSES THE TES COMMENTS IN REVISION 2.

1096	820709	ICD	4	830112	RLCA	PER/C	TES	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: DESIGN ANAL. SHOWS BOLTS BETWEEN BASE ANGLES AND WIDE FLANGE BEAMS AS 7/8", FIELD SHOWS 5/8". DESIGN ANAL RESTRAINS FAN SUPPORTS FROM TRANS MOTION, ASSUMES THRUST TO TAKE BOTH AXIAL LOADS. D.A. USES CORRECT BENDING MOMENT ARM=5.833', VERIF. A. USES 2.08', VER. ANAL SHOWS ALL STRESSES BELOW ALLOWABLE.

1096	820709	ICD	5	830113	TES	ER/C	PG&E	CHK		SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: DESIGN ANAL. SHOWS BOLTS BETWEEN BASE ANGLES AND WIDE FLANGE BEAMS AS 7/8", FIELD SHOWS 5/8". DESIGN ANAL RESTRAINS FAN SUPPORTS FROM TRANS MOTION, ASSUMES THRUST TO TAKE BOTH AXIAL LOADS. D.A. USES CORRECT BENDING MOMENT ARM=5.833', VERIF. A. USES 2.08', VER. ANAL SHOWS ALL STRESSES BELOW ALLOWABLE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1096	820709	ICD	6	830225	TES	CR	NONE CHK		NO	SUPPLY FAN S-31, AUX. BUILDING.

COMMENT: STRESSES DIFFER BTWN DESIGN AND VERIFICATION ANALYSES BY MORE THAN 15%. DA SHOWS BOLTS BTWN BASE ANGLES AND WIDE FLANGE BEAMS AS 7/8", FIELD SHOWS 5/8". DA RESTRAINTS FAN SUPPORTS FROM TRANS MOTION, ASSUMES THRUST TO TAKE BOTH AXIAL LOAD. DA USES CORRECT MOMENT ARM=5.8", VA USES 2.1", VA SHOWS ALL STRESSES BELOW ALLOWABLE. ERROR CLASS C.

1097	820713	SID	0	820713	RLCA	OIR	RLCA	RDC		AUXILIARY BUILDING

COMMENT: HOSGRI RESPONSE SPECTRA IS NOT AVAILABLE FOR THE FAN/MACHINE ROOM ABOVE ELEVATION 163' 6", THIS AREA IS LOCATED AT THE INTERSECTION OF COLUMN LINES "H" & 18 AND CONTAINS FAN E-27.

1097	820713	SID	1	820714	RLCA	PPRR/OIP	TES	RDC		AUXILIARY BUILDING

COMMENT: RLCA RECOMMENDS PG&E IDENTIFY ALL CLASS 1 PIPING AND COMPONENTS LOCATED IN THIS AREA.

1097	820713	SID	2	820720	TES	OIR	RLCA	RDC		AUXILIARY BUILDING

COMMENT: BASED ON THE PG&E PRESENTATION (JULY 14-16, 1982) OF THEIR INTERNAL TECHNICAL PROGRAM IN WHICH THE AUXILIARY BUILDING IS BEING COMPLETELY REANALYZED, TES AND RLCA WILL RECONSIDER AND RESOLVE THIS FILE.

1097	820713	SID	3	820721	RLCA	PER/AB	TES	RDC		AUXILIARY BUILDING REEVALUATION.

COMMENT: RLCA RECOMMENDS THAT EDI'S 920, 986, 1029, 1070 AND 1093 BE COMBINED WITH THIS FILE, 1097.

1097	820713	SID	4	820722	TES	ER/AB	PG&E	RDC		AUXILIARY BUILDING REEVALUATION.

COMMENT: EDI'S 920, 986, 1029, 1070 AND 1093 ARE COMBINED INTO THIS FILE. PG&E REANALYZING AUXILIARY BUILDING AS PART OF ITS INTERNAL TECHNICAL PROGRAM.

1097	0		5	0						

COMMENT: SPACED RESERVED FOR LATER REVISIONS.

1097	0		6	0						

COMMENT: SPACED RESERVED FOR LATER REVISIONS.

1097	0		7	0						

COMMENT: SPACED RESERVED FOR LATER REVISIONS.

1097	0		8	0						

COMMENT: SPACED RESERVED FOR LATER REVISIONS.

1098	820714	ICD	0	820714	RLCA	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 102 - SEPARATOR/STABILIZER

COMMENT: DESIGN ANALYSIS 8-25 MODELED THE CVC SEPARATOR/STABILIZER SUPPORT AS X & Y TRANSLATIONAL RESTRAINT. RLCA FIELD INSPECTION SHOWS THIS SUPPORT AS X & Y TRANS AND X & Z ROTATIONAL RESTRAINT.

1098	820714	ICD	1	820714	RLCA	PPRR/OIP	TES	RDF		RLCA PIPING ANALYSIS 102 - SEPARATOR/STABILIZER

COMMENT: PG&E TO REVIEW IN LINE QUALIFICATION OF SEPARATOR/STABILIZER IN CONSIDERATION OF ADDITIONAL ANCHOR BOLT LOADS.

1098	820714	ICD	2	820723	TES	PRR/OIP	PG&E	RDF		RLCA PIPING ANALYSIS 102 - SEPARATOR/STABILIZER

COMMENT: PG&E ANALYSIS 8-25 DATED 8/19/80. DESIGN ANALYSIS DOES NOT RECORD THE CORRECT ANCHOR BOLT LOADS ON THE SEPARATOR/STABILIZER. PG&E TO REVIEW THE IN LINE QUALIFICATION OF THE SEPARATOR/STABILIZER IN CONSIDERATION OF THE ADDITIONAL ANCHOR BOLT LOADS.

1098	820714	ICD	3	820910	TES	OIR	RLCA	RDF		RLCA PIPING ANALYSIS 102-SEPARATOR/STABILIZER

COMMENT: BASED ON PG&E PRESENTATION (AUGUST 6 & 26 , 1982) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, TES AND RLCA WILL RECONSIDER COMBINING THIS FILE WITH FILES 961, 1021, 1058 AND 1059 INTO ONE ERROR CLASS A OR B FILE.

1098	820714	ICD	4	820913	RLCA	PER/AB	TES	RDF		PIPING REEVALUATION.

COMMENT: BASED ON PG&E PRESENTATIONS (8/6/82 AND 8/26/82) OF THEIR INTERNAL TECHNICAL PROGRAM OF PIPING, THIS FILE COMBINES WITH FILES 961, 1021, 1058, AND 1059 TOGETHER.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1098	820714	ICD	5	820922	TES	ER/AB	PG&E RDF			PIPING REEVALUATION.
COMMENT:	BASED ON PG&E PRESENTATIONS OF THEIR TECHNICAL PROGRAM, THIS FILE IS COMBINED WITH FILES 961, 1021, 1058,1059, 1060 AND 1104 AS AN ERROR CLASS A OR B. THE INCLUSION OF FILES 1060 AND 1104 INTO THIS FILE WAS ACHIEVED BY PROGRAM REVIEW COMMITTEE ACTION . ALL CONCERNS OF THE ABOVE MENTIONED FILES WILL BE REVIEWED UNDER THIS FILE.									
1098	820714	ICD	6	830120	TES	ER/AB	PG&E RDF			PIPING REEVALUATION.
COMMENT:	BASED ON PG&E PRESENT. OF THEIR TECHNICAL PROGRAM, THIS FILE IS COMBINED W/FILES 961, 1021, 1058,1059,1060 & 1104 AS AN ER A/B. THE INCLUSION OF FILES 1060 AND 1104 INTO THIS FILE WAS ACHIEVED BY PROGRAM REVIEW COMMITTEE ACTION.ALL CONCERNS OF THE ABOVE MENTIONED FILES WILL BE REVIEWED HERE. REV 6 WAS ISSUED TO REFLECT INCLUSION OF FILE 6001.									
1098	820714	ICD	7	830225	TES	ER/AB	PG&E RDF		YES	PIPING REEVALUATION.
COMMENT:	BASED ON PG&E PRESENT. OF THEIR TECH. PROGRAM, THIS FILE IS COMBINED W/FILES 961,1021,1058,1059,1060&1104 AS AN ER/A/B THE INCL OF FILES 1060 & 1104 INTO THIS FILE WAS ACHIEVED BY PROG REVIEW COMMITTEE ACTION. ALL CONCERNS OF THE ABOVE FILES WILL BE REVIEWED HERE. REV 6 WAS ISSUED TO REFLECT INCL OF 6001.REV 7 ISSUED TO REFLECT INCL OF 1115 & 6002.									
1098	0		8	0						
COMMENT:	SPACE RESERVED FOR LATER REVISIONS.									
1098	0		9	0						
COMMENT:	SPACE RESERVED FOR LATER REVISIONS.									
1098	0		10	0						
COMMENT:	SPACE RESERVED FOR LATER REVISIONS.									
1098	0		11	0						
COMMENT:	SPACE RESERVED FOR LATER REVISIONS.									
1099	820804	FID	0	820804	RLCA	OIR	RLCA PPR			COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	DRAWING SHOWS 3/4" STIFFENER PLATES ON NORTH SIDE OF FIXED END SUPPORT; FIELD VERIFICATION DOES NOT SHOW THESE PLATES ON HX # 1-2.									
1099	820804	FID	1	820816	RLCA	PPRR/OIP	TES PPR			COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	PG&E TO ESTABLISH GEOM. CONSIDERED BY DES. ANAL. & DETERMINE REASONS FOR DIFFERENCES BETWEEN SUPPORTS.									
1099	820804	FID	2	820820	TES	PRR/OIP	PG&E PPR		NO	COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	BASIS : TES REVIEW OF GEOM. DIFF. W/ RLCA; REVIEW OF RLCA BASIS FOR FINDING (PG&E FILES) & REVIEW OF 1099-1 ; TES MEMO 820819. PG&E TO ESTABLISH THE SUPPORT CONFIGURATION REPRESENTED BY THE DESIGN ANALYSIS AND DETERMINE THE REASONS FOR THE DIFFERENCES BETWEEN THE TWO SUPPORTS.									
1099	820804	FID	3	821104	TES	OIR	RLCA PPR			COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	RLCA AND TES TO ASCERTAIN VALIDITY OF PG&E COMPLETION SHEET AND VERIFY THAT THE ADDED PLATES OF CCWHX # 1-2 HAVE BEEN DESIGNED FOR HOSGRI. DESIGN CALCS. FOR ALTERNATE "SHEAR RESTRAINT" HAVE BEEN FOUND IN PG&ES RESPONSE TO TES RFI 0108 (DCVP - TES 418 DATED 821006).									
1099	820804	FID	4	830216	RLCA	PPRR/DEV	TES PPR			COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	PG&E DRAWING 463683 REV. 6 SHOWS 3/4" STIFFNER PLATES ON NORTH SIDE OF FIXED SUPPORT. RLCA FIELD VERIFICATION SHOWS NORTH SIDE OF FIXED END SUPPORT OF HX 1-2 DOESN'T INCLUDE THESE. HX 1-1 DOES. DESIGN ANALYSIS NOT AFFECTED, SIMPLIFIED MODEL DOESN'T INCLUDE THESE PLATES. DRAWING HAS BEEN REVISED.									
1099	820804	FID	5	830225	TES	PRR/DEV	TES PPR			COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	PG&E DRAWING 463683 REV. 6 SHOWS 3/4" STIFFNER PLATES ON NORTH SIDE OF FIXED SUPPORT. RLCA FIELD VERIFICATION SHOWS NORTH SIDE OF FIXED END SUPPORT OF HX 1-2 DOESN'T INCLUDE THESE. HX 1-1 DOES. DESIGN ANALYSIS NOT AFFECTED, SIMPLIFIED MODEL DOESN'T INCLUDE THESE PLATES. DRAWING HAS BEEN REVISED.									
1099	820804	FID	6	830225	TES	CR	NONE PPR		NO	COMPONENT COOLING WATER HEAT EXCH. TURBINE BLDG.
COMMENT:	PG&E DRAWING 463683 REV. 6 SHOWS 3/4" STIFFNER PLATES ON NORTH SIDE OF FIXED SUPPORT. RLCA FIELD VERIFICATION SHOWS NORTH SIDE OF FIXED END SUPPORT OF HX 1-2 DOESN'T INCLUDE THESE. HX 1-1 DOES. DESIGN ANALYSIS NOT AFFECTED, SIMPLIFIED MODEL DOESN'T INCLUDE THESE PLATES. DRAWING HAS BEEN REVISED. DEVIATION.									
1100	820816	OD	0	820816	RLCA	OIR	RLCA RDC			HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT:	HLA FIELD LOG OF BORING # 11 (820208) INDICATES TWO FIREWATER TANKS ; THERE SHOULD ONLY BE ONE FIREWATER TANK;									

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1100	820816	OD	1	820818	RLCA	PPRR/DEV	TES	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: ONE TANK IS MISLABLED ON THE FIELD BORING LOG. THE BORING LOCATION IS CORRECTLY NOTED IN THE HLA REPORT.										
1100	820816	OD	2	820910	TES	PRR/DEV	PG&E	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: ONE TANK MISLABELED ON FIELD BORING LOG; BORING LOCATION IS CORRECT; PG&E TO CONFIRM.										
1100	820816	OD	3	821111	TES	CR	NONE	RDC	NO	HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: HLA FIELD LOG OF BORING # 11 (820208) INDICATES TWO FIREWATER TANKS ; THERE SHOULD ONLY BE ONE FIREWATER TANK; ONE TANK MISLABELED ON FIELD BORING LOG; BORING LOCATION IS CORRECT; PG&E TO CONFIRM. NO PHYSICAL MODS PER PG&E COMPLETION SHEET 821025. DEVIATION.										
1101	820816	OD	0	820816	RLCA	OIR	RLCA	RDC		HLA SOIL REVIEW OUTDOUR WATER STORAGE TANKS.
COMMENT: HLA FIELD LOG OF BORING # 2 (731016) INDICATES BORING IN LINE WITH UNIT 1 CONTAIN. WHILE HLA REPORT SHOWS BORING IN LINE WITH UNIT 2 CONTAIN.										
1101	820816	OD	1	820818	RLCA	PPRR/OIP	TES	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: RLCA TO ASSES THE SIGNIFICANCE OF THIS ITEM AT THE CONCLUSION OF THE SOILS REVIEW. PG&E TO CLARIFY THE BORING LOCATION.										
1101	820816	OD	2	820910	TES	PRR/OIP	PG&E	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: PG&E TO CLARIFY LOCATION OF BORING LINE #2.										
1101	820816	OD	3	821113	TES	OIR	RLCA	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: HLA FIELD LOG OF BORING NO.2(731016) INDICATED BORING IN LINE W/UNIT 1 CONTAINMENT WHILE HLA REPORT SHOWED BORING IN LINE W/UNIT 2 CONTAINMENT. PG&E HAS CORRECTED FIELD BORING LOG NO.2. BASED ON PG&E COMPLETION SHEET(821025) TES RECOMMENDS THAT RLCA REVIEW AND RESOLVE THIS FILE.										
1101	820816	OD	4	821118	RLCA	PPRR/DEV	TES	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: PG&E COMPLETION SHEET 821027. HLA NONCONFORMANCE REPORT 821021. FIELD ENGINEER AGREES THAT FIELD LOG INCORRECTLY SHOWS BORING #2 IN LINE WITH THE UNIT I CONTAINMENT. HLA REPORT IS CORRECT.										
1101	820816	OD	5	821203	TES	PRR/DEV	TES	RDC		HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: PG&E COMPLETION SHEET 821027. HLA NONCONFORMANCE REPORT 821021. FIELD ENGINEER AGREES THAT FIELD LOG INCORRECTLY SHOWS BORING #2 IN LINE WITH THE UNIT I CONTAINMENT. HLA REPORT IS CORRECT.										
1101	820816	OD	6	821203	TES	CR	NONE	RDC	NO	HLA SOIL REVIEW OUTDOOR WATER STORAGE TANKS.
COMMENT: HLA FIELD LOG OF BORING #2 (731016) INDICATES BORING IN LINE WITH UNIT I CONTAINMENT WHILE HLA REPORT SHOWS BORING IN LINE WITH UNIT II CONT. PG&E COMP. SHEET 821027. HLA NONCONFORMANCE REPORT 821021. FIELD LOG INCORRECT. HLA REPORT IS CORRECT. DEVIATION.										
1102	820819	DMD	0	820819	RLCA	OIR	RLCA	CHK		HVAC DAMPER 7A. AUX. BUILDING.
COMMENT: DAMPER FLANGE THICKNESS WAS FOUND BY RLCA TO BE 7/8" RATHER THAN 3/4" AS SHOWN BY MANUF. DRAWING. AS INSTALLED CONFIGURATION DIFFERS FROM THAT AS DRAWN AND ANALYZED BY MANUFACTURER.										
1102	820819	DMD	1	820819	RLCA	PER/C	TES	CHK		HVAC DAMPER 7A. AUX. BUILDING.
COMMENT: RLCA CALCS. SHOW ALL STRESS BELOW ALLOWABLE, TES TO REVIEW & VERIFY RLCA ANALYSIS.										
1102	820819	DMD	2	821006	TES	OIR	RLCA	CHK		HVAC DAMPER 7A. AUX. BUILDING.
COMMENT: THE 1/2" (5/8") BOLT CONCERN OF 1083 REV. 2 WAS TRANSFERRED TO 1102. TES ANALYSIS FIND BOLTS OVERSTRESSED. RLCA SHOULD RERUN COMPUTER MODEL WITH PROPER PIN CODE TO OUTPUT MOMENT AT BOLTED CONNECTION; AND THEN EVALUATE BOLTS.										
1102	820819	DMD	3	821011	RLCA	PER/C	TES	CHK		HVAC DAMPER 7A. AUX. BUILDING.
COMMENT: THE QUALIFICATION ANALYSES DO NOT CONSIDER THE DAMPER IN AS-INSTALLED CONFIGURATION AND USE IMPROPER VERTICAL ACCELERATION. THEREFORE, STRESS COMPARISONS NOT POSSIBLE. RLCA ANALYSIS SHOWS ALL STRESSES TO BE BELOW THE ALLOWABLE.										
1102	820819	DMD	4	821104	TES	OIR	RLCA	CHK		HVAC DAMPER 7A. AUX. BUILDING.
COMMENT: PROGRAM REVIEW COMMITTEE DISCUSSED THIS FILE ON 821101. CONSIDERED PG&E RESPONSE OF 821017. THIS DISCUSSION RESULTED IN THE CLARIFICATION AND AGREEMENT OF THE THREE ITEMS NOTED IN THE PER C, REV.3 RLCA TO REVISE THEIR PER TO CLARIFY ACTUAL ISSUE ON WHICH THEIR ERROR RECOMMENDATION WILL BE BASED.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1102	820819	DMD	5	821110	RLCA	PER/C	TES	CHK		HVAC DAMPER 7A, AUX. BUILDING.
COMMENT: EDS CALC NO.MS30 DOES NOT CONSIDER THE AS-INSTALLED RELATIVE CONFIGURATION OF DAMPER-ACTUATOR. LOCATION OF C.G. IS CONSERVATIVE FOR VERTICAL ACCELERATION BUT UNCONSERVATIVE FOR HORIZONTAL ACCELERATION. RLCA ANALYSIS SHOWS ALL STRESSES TO BE BELOW THE ALLOWABLE STRESS.										
1102	820819	DMD	6	821122	TES	FR/C	PG&E	CHK		HVAC DAMPER 7A, AUX. BUILDING.
COMMENT: ANALYSIS OF DAMPER ACTUATOR SUPPORTS (EDS.CALC.NO. MS 30, RLCA FILE NO.P105-4-446-011) DOES NOT CONSIDER AS-INSTALLED RELATIVE CONFIGURATION. LOCATION OF THE C.G. IS CONSERVATIVE FOR VERTICAL ACCELERATION BUT UNCONSERVATIVE FOR HORIZONTAL. RLCA ANALYSIS SHOWS ALL STRESSES TO BE BELOW THE ALLOWABLE STRESS.										
1102	820819	DMD	7	830225	TES	CR	NONE	CHK	NO	HVAC DAMPER 7A, AUX. BUILDING.
COMMENT: ANALYSIS OF DAMPER ACTUATOR SUPPORTS (EDS.CALC.NO. MS 30, RLCA FILE NO.P105-4-446-011) DOES NOT CONSIDER AS-INSTALLED RELATIVE CONFIGURATION. LOCATION OF THE C.G. IS CONSERVATIVE FOR VERTICAL ACCELERATION BUT UNCONSERVATIVE FOR HORIZONTAL. RLCA ANALYSIS SHOWS ALL STRESSES TO BE BELOW THE ALLOWABLE STRESS. ER/C.										
1103	820831	DMD	0	820831	RLCA	OIR	RLCA	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: SUPPORTS 18/1SL, 18/4R, 10/2SL, 10/1SL AND 5/10R ARE ATTACHED TO RUPTURE RESTRAINTS, STEEL PLATE AND BUILDING STRUCTURAL STEEL. TWO CONCERNS ARE NOTED: OVERALL QUALIFICATION OF THE SUPPORTING STEEL AND 20Hz FLEXIBILITY CRITERIA FOR THESE PIPE SUPPORTS.										
1103	820831	DMD	1	820831	RLCA	PPRR/OIP	TES	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: PG&E TO DEFINE PROCEDURES ON THE TREATMENT AND EVALUATION OF SUCH PIPING SUPPORTS WHICH MAY NOT BE ATTACHED TO RIGID STRUCTURES.										
1103	820831	DMD	2	821005	TES	PRR/OIP	PG&E	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: PG&E TO DEFINE PROCEDURES ON THE TREATMENT AND EVALUATION OF SUCH PIPING SUPPORTS WHICH MAY NOT BE ATTACHED TO RIGID STRUCTURES.										
1103	820831	DMD	3	821116	TES	OIR	RLCA	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: THE SUPPORTING STEEL MAY NOT HAVE BEEN CONSIDERED IN THE 20HZ. EVALUATION. ALSO THE AUXILIARY STEEL, RUPTURE RESTRAINTS OR STEEL PLATE MAY NOT HAVE BEEN QUALIFIED CONSIDERING THE LOADS FROM THE PIPE SUPPORTS.										
1103	820831	DMD	4	821118	RLCA	PPRR/OIP	TES	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: RLCA AGREES W/PG&E RESPONSE, HOWEVER, RUPTURE RESTRAINT RIGIDITY TRANSVERSE TO RUPTURE RESTRAINT LINE OF ACTION IS NOT ADDRESSED. PG&E TO SPECIFY PROCESS USED TO EVALUATE PIPE SUPPORT FLEXIBILITY FOR SUPPORTS ATTACHED TO RUPTURE RESTRAINTS/LOADS TRANSVERSE TO RUPTURE RESTRAINT LINE OF ACTION.										
1103	820831	DMD	5	821203	TES	PRR/OIP	PG&E	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: PG&E IS TO SPECIFY THE PROCESS USED TO EVALUATE PIPE SUPPORT FLEXIBILITY FOR SUPPORTS ATTACHED TO RUPTURE RESTRAINTS/LOADS. TRANSVERSE TO THE RUPTURE RESTRAINT LINE OF ACTION.										
1103	820831	DMD	6	830406	TES	OIR	RLCA	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: FILE REV. 5 WAS ISSUED FOR PURPOSE OF REQUESTING DCP PROCEDURE FOR EVALUATING SUPT. FLEXIBILITY TRANSVERSE TO RUPTURE RESTRAINTS PRINCIPLE AXIS. RLCA TO REVIEW DCP'S RESPONSE IN COMP. SHT. DATED 830314 & PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
1103	820831	DMD	7	830407	RLCA	PPRR/CI	TES	JFM		PIPE SUPPORYS ATTACHED TO AUXILIARY STEEL.
COMMENT: IDVP INCL. REVIEW OF STRUCTURAL MEMBER QUAL. FOR INCLUSION OF LOCAL PIPE SUPT LOADS. DCP CONSIDERS ALL SUPPORTING STEEL BTWN PIPE & BLDG FOR 20 HZ. CRIT., RUPT. REST. CONSIDERED RIGID. DCP PROVIDED RUPT. REST. CALCS JUDGING FREQ. TO BE ABOVE 33 HZ. IDVP CONCURS.										
1103	820831	DMD	8	830415	TES	PRR/CI	TES	JFM		PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: IDVP INCL. REVIEW OF STRUCTURAL MEMBER QUAL. FOR INCLUSION OF LOCAL PIPE SUPT LOADS. DCP CONSIDERS ALL SUPPORTING STEEL BTWN PIPE & BLDG FOR 20 HZ. CRIT., RUPT. REST. CONSIDERED RIGID. DCP PROVIDED RUPT. REST. CALCS JUDGING FREQ. TO BE ABOVE 33 HZ. IDVP CONCURS.										
1103	820831	DMD	9	830415	TES	CR	NONE	JFM	NO	PIPE SUPPORTS ATTACHED TO AUXILIARY STEEL.
COMMENT: IDVP INCL. REVIEW OF STRUCTURAL MEMBER QUAL. FOR INCLUSION OF LOCAL PIPE SUPT LOADS. DCP CONSIDERS ALL SUPPORTING STEEL BETWEEN PIPE & BUILDING FOR 20 HZ. CRITERIA RUPTURE RESTRAINT CONSIDERED RIGID. DCP PROVIDED RUPTURE RESTRAINT CALCS JUDGING FREQUENCY TO BE ABOVE 33 HZ. IDVP CONCURS. CLOSED ITEM.										
1104	820903	FID	0	820903	RLCA	OIR	RLCA	RDF		RLCA PIPING ANAL.110 LINES 4260 & 3078,CONT.BLDG.
COMMENT: ONE SUPPORT ON LINE 3078, ADJACENT TO THE LINE 4259 TEE, AND TWO SUPPORTS ON LINE 4260, ADJACENT TO LINE 3079, ARE MISSING THE U-BOLTS REQUIRED TO PROVIDE BILATERAL RESTRAINT.										
1104	820903	FID	1	820910	RLCA	PPRR/OIP	TES	RDF		RLCA PIPING ANAL.110 LINES 4260 & 3078,CONT.BLDG.
COMMENT: RLCA WILL MODEL THESE LINES ASSUMING BILATERAL RESTRAINT AT THESE LOCA. AS NOTED IN THE PROGR. RPT, RLCA WILL NOT ISSUE EOI'S CONC. 79-14 WALKDOWN ITEMS NOTED FOR THE ADDI. FIVE LINES. THESE LINES WILL BE MODELED USING RLCA FIELD INFO. EXCEPTING THE ABOVE SUPTS. THIS ITEM TO BE COMB. W/ OTHER PIPING EOI'S & ADDRESSED BY THE PG&E ITP - SUB. TO RLCA VERIF.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1104	820903	FID	2	820922	TES	PRR/CI	TES	RDF		RLCA PIPING ANAL.110 LINES 4260 & 3078;CONT.BLDG.
COMMENT: TES AND RLCA AGREED IN A PROGRAM REVIEW COMMITTEE ACTION TO MODIFY THE RECOMMENDATION FROM AN OPEN ITEM WITH FUTURE ACTION TO PG&E TO A CLOSED ITEM WITH THE CONCERN OF THIS FILE TRANSFERRED TO FILE 1098-ERROR A/B.										
1104	820903	FID	3	820922	TES	CR	NONE	RDF	NO	RLCA PIPING ANAL.110 LINES 4260 & 3078;CONT.BLDG.
COMMENT: ONE SUPPORT ON LINE 3078, ADJACENT TO THE LINE 4259 TEE, AND TWO SUPPORTS ON LINE 4260, ADJACENT TO LINE 3078, ARE MISSING THE U-BOLTS REQUIRED TO PROVIDE BILATERAL RESTRAINT. RLCA WILL MODEL THESE LINES ASSUMING BILATERAL RESTRAINT AT THESE LOCATIONS. THIS FILE HAS BEEN COMBINED WITH FILE 1098-ERROR CLASSS A/B.										
1105	821013	SID	0	821013	RLCA	OIR	RLCA	RDF		PIPING ANALYSIS 103: VALVES 8724A, 8726A & 8728A
COMMENT: RLCA FIELD VERIFICATION SHOWED VALVES INSTALLED IN HORIZONTAL POSITION. VENDOR DWG DC-663219-292-2 REQUIRES INSTALLATION IN VERTICAL POSITION. RLCA RECOMMENDS THIS FILE BE COMBINED WITH EOI 938.										
1105	821013	SID	1	821013	RLCA	PPRR/CI	TES	RDF		PIPING ANALYSIS 103: VALVES 8724A, 8726A & 8728A
COMMENT: PG&E TO ASSESS THE SIGNIFICANCE OF HORIZONTAL VALVE INSTALLATION IN VIEW OF VENDOR REQUIREMENTS. COMBINE THIS FILE WITH EOI 938.										
1105	821013	SID	2	821018	TES	PRR/CI	TES	RDF		PIPING ANALYSIS 103: VALVES 8724A, 8726A & 8728A
COMMENT: PG&E TO ASSESS THE SIGNIFICANCE OF HORIZONTAL VALVE INSTALLATION IN VIEW OF VENDOR REQUIREMENTS. THE CONCERN OF THIS FILE HAS BEEN TRANSFERED TO FILE 938.										
1105	821013	SID	3	821018	TES	CR	NONE	RDF	NO	PIPING ANALYSIS 103: VALVES 8724A, 8726A & 8728A
COMMENT: RLCA FIELD VERIFICATION SHOWED VALVES TO BE INSTALLED IN HORIZONTAL POSITION. VENDOR DRAWING DC663219-292-2 REQUIRES THAT VALVES BE INSTALLED IN VERTICAL POSITION. PG&E TO ASSESS THE SIGNIFICANCE OF HORIZONTAL VALVE INSTALLATION IN VIEW OF VENDOR REQUIREMENTS. THE CONCERN OF THIS FILE HAS BEEN TRANSFERED TO FILE 938. CLOSED ITEM.										
1106	821101	ICD	0	821101	RLCA	OIR	RLCA	RDF		NOZZLE LOADS VALVE ACCEL.- RL.. PIPING ANALYSES.
COMMENT: RHR PUMP 1-1 SUCTION AND DISCHARGE (RLCA 103), RHR HX 1-1 INLET (RLCA 103), CCWHX 1-1 & 1-2 OUTLET (RLCA 102),PRESSURIZE NOZZLES A,B,C (RLCA 105), VALVES 1-9001A (RLCA 100), 1-9003A(RLCA 107), LCV113(RLCA 109), LCV115(RLCA 109). FOR THESE COMPONENTS, NOZZLE LOADS AND VALUE ACCE. EXCEED PG&E DESIG. ALLO. VALUES.EOI 1106 TO BE COM. W/ EOI 1098 AS AN ER A OR B										
1106	821101	ICD	1	821101	RLCA	PPRR/CI	TES	RDF		NOZZLE LOADS VALVE ACCEL.- RLCA PIPING ANALYSES.
COMMENT: EOI 1106 TO BE COMBINED WITH EOI 1098 AS AN ERROR CLASS A OR B.										
1106	821101	ICD	2	821118	RLCA	PER/AB	TES	RDF		NOZZLE LOADS VALVE ACCEL.- RLCA PIPING ANALYSES.
COMMENT: THE NOZZLE LOADS AND VALVE ACCELERATIONS FROM THE RLCA VERIFICATION ANALYSES EXCEED THE PG&E DESIGNATED ALLOWABLE VALUES FOR THE COMPONENTS LISTED.										
1106	821101	ICD	3	821123	TES	ER/AB	PG&E	RDF		NOZZLE LOADS VALVE ACCEL.- RLCA PIPING ANALYSES.
COMMENT: THE NOZZLE LOADS AND VALVE ACCELERATIONS FROM THE RLCA VERIFICATION ANALYSES EXCEED THE PG&E DESIGNATED ALLOWABLE VALUES FOR THE COMPONENTS LISTED.										
1106	821101	ICD	4	821210	TES	ER/AB	PG&E	RDF		NOZZLE LOADS VALVE ACCEL.- RLCA P.PING ANALYSES.
COMMENT: THE NOZZLE LOADS AND VALVE ACCELERATIONS FROM THE RLCA VERIFICATION ANALYSES EXCEED THE PG&E DESIGNATED ALLOWABLE VALUES. BASED ON PG&E'S CORRECTIVE ACTION PROGRAM, THE CONCERN OF FILE 1109 HAS BEEN COMBINED INTO THIS FILE ALL CONCERNS OF THESE FILES WILL BE REVIEWED UNDER THIS FILE.										
1106	0		5	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1106	0		6	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1106	0		7	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1106	0		8	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1106		0	9	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

1107	821123	ICD	0	821123	RLCA	OIR	RLCA	RDF		COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA MODELED TWO VALVES ON VENT LINE FROM LINE 3488, DESIGN ANALYSIS HAD ONE. RLCA VERIFIED TWO SUPPORTS ON LINE 4259 AS DEADWEIGHT ONLY. DESIGN ANALYSIS HAD THESE RIGID VERTICAL. VERIFICATION ANALYSIS USED 2.1 FOR SOCKET WELD CONNECTION SIF, DESIGN ANALYSIS USED 1.0. RLCA ANALYSIS SHOWED STRESSES TO EXCEED ALLOWABLE VALVES IN SEPARATE AREAS OF PIPING.

1107	821123	ICD	1	821207	RLCA	PER/A	TES	RDF		COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA VERIFIED AND MODELED TWO VALVES ON VENT LINE FROM LINE 3488, PG&E MODELED ONE. RLCA MODELED TWO SUPPORTS AS DW ONLY PG&E MODELED AS RIGID. RLCA USED SIF=2.1 FOR SOCKET WELD CONNECTION, PG&E USED 1.0. STRESSES CALCULATED IN VERIFICATION ANALYSIS EXCEED THE ALLOWABLE VALUES IN TWO SEPARATE AREAS OF PIPING.

1107	821123	ICD	2	821209	TES	ER/A	PG&E	RDF		COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA FIELD VERIFIED AND MODELED TWO VALVES ON 3/4" VENT LINE OFF OF LINE 3488, PG&E MODELED ONE. RLCA MODELED TWO SUPPORTS ON LINE 4259 AS DW ONLY, PG&E MODELED AS RIGID. RLCA USED SIF OF 2.1 WHERE PG&E USED 1.0. STRESSES CALCULATED IN VERIFICATION ANALYSIS EXCEED ALLOWABLES IN TWO SEPARATE AREAS OF PIPING.

1107	821123	ICD	3	830309	TES	OIR	RLCA	RDF		COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: STRESSES CALCULATED IN VERIF. ANALYSIS EXCEEDED ALLOWABLES IN TWO AREAS OF PIPING. RLCA IDENTIFIED 3 DIFFERENCES. BASED ON RES. SHT. DATED 830218, RLCA TO REVIEW NEW DESIGN ANALYSIS 7-103 WHICH HAS SUPERCEDED PREVIOUS ANALYSIS 7-1. NEW ANALYSIS (7-103) HAS ADDRESSED ALL 3 ITEMS.

1107	821123	ICD	4	830311	RLCA	PPRR/OIP	TES	RDF		COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA REVIEWED REVISED DCP ANALYSIS 7-103 R. 0, INCLUDES 2 VALVES ON LINE 3488 VENT LINE AND 2.1 SIF FOR SOCKET CONNECTIONS. TWO DW SUPPORTS ON LINE 4259 NOT MODELED AS RIGID VERTICAL. ALL CONCERNS OF RLCA 110 ADDRESSED BY REVISED DCP ANALYSIS. RLCA TO VERIFY MODS AFTER INSTALLATION.

1107	821123	ICD	5	830314	TES	PRR/OIP	PG&E	RDF	YES	COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA REVIEWED REVISED DCP ANALYSIS 7-103 R. 0, INCLUDES 2 VALVES ON LINE 3488 VENT LINE AND 2.1 SIF FOR SOCKET CONNECTIONS. TWO DW SUPPORTS ON LINE 4259 NOT MODELED AS RIGID VERTICAL. ALL CONCERNS OF RLCA 110 ADDRESSED BY REVISED DCP ANALYSIS. RLCA TO VERIFY MODS AFTER INSTALLATION.

1107	821123	ICD	6	830524	TES	OIR	RLCA	RDF	YES	COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: VERIFICATION CALCS SHOW OVERSTRESS IN TWO AREAS. QUESTION OF TWO VERTICAL SUPPORTS ADDRESSED IN AN ITR. ALL CONCERNS OF RLCA 110 HAVE BEEN ADDRESSED IN DCP REVISED ANALYSIS (7-103) HAVE BEEN REVIEWED BY RLCA. MODS PER DCP 830518 COMP. SHT. TO BE VERIFIED BY RLCA.

1107	821123	ICD	7	830601	RLCA	PPRR/CI	TES	RDF	YES	COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: ALL CONCERNS NOTED AS A RESULT OF RLCA PIPING ANALYSIS 110 HAVE BEEN ADDRESSED BY THE REVISED DCP ANALYSIS (7-103, R.0). RLCA HAS FIELD VERIFIED THE MODIFICATION REQUIRED TO ADDRESS THE CONCERNS.

1107	821123	ICD	8	830607	TES	PRR/CI	TES	RDF	YES	COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: RLCA FIELD VERIFIED AND MODELED TWO VALVES ATTACHED TO 3/4" VENT LINE FROM LINE 3488, FIELD VERIFIED 2 SUPPORTS ON LINE 4259 TO BE DW ONLY. USED DIFFERENT SOCKET WELD CONNECTION SIF. RLCA HAS FIELD VERIFIED MODS REQUIRED TO ADDRESS THE CONCERN.

1107	821123	ICD	9	830607	TES	CR	NONE	RDF	YES	COMPARISON: PG&E AND RLCA PIPING 110

COMMENT: STRESSES CALCULATED IN VERIFICATION ANALYSIS EXCEED ALLOWABLE VALUES IN SEPARATE AREAS OF PIPING. ALL CONCERNS NOTED AS A RESULT OF RLCA PIPING SAMPLE 110 HAVE BEEN ADDRESSED BY THE REVISED DCP ANALYSIS 7-103, R. 0. RLCA HAS FIELD VERIFIED MODS REQUIRED. CLOSED ITEM. PPEVIOUSLY ER/A.

1108	821207	ICD	0	821207	RLCA	OIR	RLCA	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5

COMMENT: DESIGN ANALYSIS OF RTD LINES DOES NOT INCLUDE MOVEMENTS AT THE ATTACHMENT TO THE REACTOR COOLANT SYSTEM. RLCA INCLUDED THE MOVEMENTS IN VERIFICATION ANALYSIS. IN THIS CASE, THESE MOVEMENTS DID NOT CONTRIBUTE SIGNIFICANTLY TO THE OVERSTRESS REPORTED IN EOI 1107.

1108	821207	ICD	1	821207	RLCA	PER/C	TES	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5

COMMENT: DESIGN ANALYSIS OF RTD LINES DOES NOT INCLUDE MOVEMENTS AT THE ATTACHMENT TO THE REACTOR COOLANT SYSTEM. RLCA INCLUDED THE MOVEMENTS IN VERIFICATION ANALYSIS. IN THIS CASE, THESE MOVEMENTS DID NOT CONTRIBUTE SIGNIFICANTLY TO THE OVERSTRESS REPORTED IN EOI 1107.

1108	821207	ICD	2	821213	RLCA	PPRR/OIP	TES	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5

COMMENT: EOI 1107 NOTES OVERSTRESS IN VERIFICATION ANALYSIS. OVERSTRESS IS NOT CAUSED BY INCLUSION OF THESE SAM EFFECTS IN VERIFICATION ANALYSIS. LICENSING CRITERIA DOES NOT ADDRESS SMALL BORE PIPING ATTACHED TO RCS. PG&E TO CLARIFY LICENSING CRITERIA WITH RESPECT TO SMALL BORE PIPING ATTACHED TO RCS.

1108	821207	ICD	3	821217	TES	PRR/OIP	PG&E	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5

COMMENT: EOI 1107 NOTES OVERSTRESS IN VERIFICATION ANALYSIS. OVERSTRESS IS NOT CAUSED BY INCLUSION OF SAM EFFECTS WHICH WERE INCLUDED. LICENSING CRITERIA DOES NOT ADDRESS SMALL BORE PIPING ATTACHED TO REACTOR COOLANT SYSTEM. PG&E TO CLARIFY LICENSING CRITERIA WITH RESPECT TO SMALL BORE PIPING ATTACHED TO RCS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1108	821207	ICD	4	830304	TES	OIR	RLCA	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5
COMMENT: BASED ON PG&E RESOLUTION SHEET FOR FILE 1108, REV. 3 (REVISED COPY) DATED R.R. FRAY 830218, RLCA TO REVIEW THE NEW DESIGN ANALYSIS (7-103) WHICH HAS SUPERSEDED THE PREVIOUS DESIGN ANALYSIS 7-1. THIS NEW ANALYSIS (7-103) HAS INCLUDED THE APPROPRIATE ANCHOR MOVEMENTS.										
1108	821207	ICD	5	830314	RLCA	PRR/CI	TES	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5
COMMENT: DESIGN AMALYSIS DOESN'T CONSIDER MOVEMENTS AT ATTACHMENT OF RTD TO REACTOR COOLANT SYSTEM. PH. I FINAL REPORT COMMITS INCLUSION OF DE MOVEMENTS IN PIPING STRESS ANALYSIS AND DE, DDE, HOSGRI MOVE IN SUPPORT LOADS. LICENSING CRITERIA DOESN'T REQUIRE RCS MOVEMENTS FOR ANALYSIS OF SMALL BORE PIPING.										
1108	821207	ICD	6	830317	TES	PRR/CI	TES	RDF		RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5
COMMENT: DESIGN ANALYSIS DOESN'T CONSIDER MOVEMENTS AT ATTACHMENT OF RTD TO REACTOR COOLANT SYSTEM. PH. I FINAL REPORT COMMITS INCLUSION OF DE MOVEMENTS IN PIPING STRESS ANALYSIS AND DE, DDE, HOSGRI MOVE IN SUPPORT LOADS. LICENSING CRITERIA DOESN'T REQUIRE RCS MOVEMENTS FOR ANALYSIS OF SMALL BORE PIPING. TO BE REVIEWED BY IDVP IN DCP CORRECTIVE ACTION.										
1108	821207	ICD	7	830317	TES	CR	NONE	RDF	NO	RLCA PIPING 110,DESIGN ANALYSIS 7-1,REV-5
COMMENT: DESIGN ANALYSIS DOESN'T CONSIDER MOVEMENTS AT ATTACHMENT OF RTD TO REACTOR COOLANT SYSTEM. PH. I FINAL REPORT COMMITS INCLUSION OF DE MOVEMENTS IN PIPING STRESS ANALYSIS AND DE, DDE, HOSGRI MOVE IN SUPPORT LOADS. LICENSING CRITERIA DOESN'T REQUIRE RCS MOVEMENTS FOR ANAL OF SMALL BORE PIPING.TO BE REVIEWED BY IDVP IN DCP CORRECTIVE ACTION.CLOSED ITEM.										
1109	821207	ICD	0	821207	RLCA	OIR	RLCA	RDF		NOZZLE LOADS - ADDITIONAL SAMPLE
COMMENT: NOZZLE LOADS INDEPENDENTLY CALCULATED FOR NOZZLES EXCEEDED DESIGN ANALYSIS VALUES. DESIGN ANALYSIS NOZZLE LOADS WERE VENDOR APPROVED. TRUE MAX ACCEPTABLE NOZZLE LOADS ARE UNSPECIFIED, BUT MAY WELL BE HIGHER THAN IDVP VALUES. THIS ITEM SHOULD BE CHECKED IN CORRECTIVE ACTION PROGRAM.										
1109	821207	ICD	1	821207	RLCA	PPRR/CI	TES	RDF		NOZZLE LOADS - ADDITIONAL SAMPLE
COMMENT: THIS EOI COMBINES WITH EOI 1106. RLCA WILL VERIFY DCP CORRECTIVE ACTION IN REGARDS TO GENERATION OF ALLOWABLE VALUES FOR THESE NOZZLES.										
1109	821207	ICD	2	821209	TES	PRR/CI	TES	RDF		NOZZLE LOADS - ADDITIONAL SAMPLE
COMMENT: NOZZLE LOADS INDEPENDENTLY CALCULATED FOR NOZZLES EXCEED DESIGH ANALYSIS VALUES. DESIGN ANALYSIS NOZZLE LOADS WERE VENDOR APPROVED. TRUE MAX ACCEPTABLE NOZZLE LOADS ARE UNSPECIFIED, BUT MAY WELL BE HIGHER THAN IDVP VALUES. THIS ITEM SHOULD BE CHECKED IN CORRECTIVE ACTION PROGRAM. THIS FILE TRANSFERED TO EOI 1106.										
1109	821207	ICD	3	821210	TES	CR	NONE	RDF	NO	NOZZLE LOADS - ADDITIONAL SAMPLE
COMMENT: NOZZLE LOADS INDEPENDENTLY CALCULATED FOR NOZZLES EXCEEDED DESIGN ANALYSIS VALUES. DESIGN ANALYSIS NOZZLE LOADS WERE VENDOR APPROVED. TRUE MAX ACCEPTABLE NOZZLE LOADS ARE UNSPECIFIED, BUT MAY WELL BE HIGHER THAN IDVP VALUES. THIS ITEM SHOULD BE CHECKED IN CORRECTIVE ACTION PROGRAM. THIS FILE TRANSFERED TO EOI 1106. CLOSED ITEM.										
1110	821208	FID	0	821208	RLCA	OIR	RLCA	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: WALL PENETRATION IN PG&E DRAWING 59322 R.17, DETAIL 3/322 SPECIFIES 2.5 X 1.5 X 3/16 INCH ANGLE INSTALLED ON TOP AND TWO SIDES OF DUCT ON WEST SIDE OF WALL. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED. AS-BUILT DOES NOT AGREES WITH DRAWING.										
1110	821208	FID	1	821208	RLCA	PPRR/OIP	TES	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: WALL PENETRATION IN PG&E DRAWING 59322 R.17, DETAIL 3/322 SPECIFIES 2.5 X 1.5 X 3/16 INCH ANGLE INSTALLED ON TOP AND TWO SIDES OF DUCT ON WEST SIDE OF WALL. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED. AS-BUILT DOES NOT AGREES WITH DRAWING.										
1110	821208	FID	2	830107	TES	PRR/OIP	PG&E	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: CL.1 36"X16" RECT. HVAC DUCT FROM FAN S-69 TO 4.16 KV SWITCHGEAR. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED WHICH ARE CALLED FOR IN DETAIL 3/322, PG&E DWG. 59322, REV. 17.										
1110	821208	FID	3	830225	TES	OIR	RLCA	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: RLCA TO REVIEW NEW CALCS PROVIDED WITH PG&E RESOLUTION AND COMPLETION SHEETS & SUBMIT A FILE REVISION OR RECOMMENDATION TO THE IDVP PROGRAM MANAGER.										
1110	821208	FID	4	830307	RLCA	PER/C	TES	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: WALL PENETRATION DESCRIBED IN PG&E DRAWING 59322 R. 17, DETAIL Z/322 SPECIFIES 2 1/2" X 1 1/2" X 3/16" ANGLE INSTALLED ON TOP AND TWO SIDES OF DUCT ON WEST SIDE OF WALL. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED. RLCA SHOWS ALL STRESSES BELOW ALLOWABLE.										
1110	821208	FID	5	830311	TES	ER/C	PG&E	RCW		CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: WALL PENETRATION DESCRIBED IN PG&E DRAWING 59322, R. 17, DETAIL Z/322 SPECIFIES 2 1/2" X 3/16" ANGLE INSTALLED ON TOP AND TWO SIDES ON WEST SIDE OF WALL. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED. RLCA CALCS P105-4-560-001, REV. 1 SHOWS ALL STRESSES BELOW ALLOWABLE.										
1110	821208	FID	6	830318	TES	CR	NONE	RCW	NO	CL.1 HVAC DUCT, FAN S-69 TO 4.16 KV SWITCHGEAR
COMMENT: WALL PENETRATION DESCRIBED IN PG&E DRAWING 59322, R. 17, DETAIL Z/322 SPECIFIES 2 1/2" X 3/16" ANGLE INSTALLED ON TOP AND TWO SIDES ON WEST SIDE OF WALL. FIELD INSPECTION SHOWS ANGLES NOT INSTALLED. RLCA CALCS P105-4-560-001, REV. 1 SHOWS ALL STRESSES BELOW ALLOWABLE. ERROR CLASS C.										

	REV. 0		LATEST REV.				ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1111	821221	OD	0	821221	RLCA	OIR	RLCA	RDF		PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: MANY PREVIOUSLY OPEN EOIS APPLY BOTH PH. I AND PH. II. DCP WILL REVIEW PIPING AND SUPPORT FOR BOTH PH. I AND PH. II CRITERIA. COMPARISON OF INDEPENDENT CALCS TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS. DCP WILL REVIEW PIPING TO ADDRESS PREVIOUSLY IDENTIFIED IDVP ERROR REPORTS (PH. 1 ONLY PRIOR TO 811130) AND ITP OPEN ITEMS.										
1111	821221	OD	1	821221	RLCA	PPRR/CI	TES	RDF		PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: THIS ITEM COMBINES WITH EOI 1098 AS AN ERROR CLASS A OR B. IDVP WILL PREPARE A PROGRAM SIMILAR TO ITR #8 REV.0 FOR VERIFICATION OF PHASE II PIPING AND PIPE SUPPORT THROUGH REVIEW OF THE DCP CURRENT ACTIVITIES.										
1111	821221	OD	2	830107	TES	OIR	RLCA	RDF		PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: SINCE THE SUBJECT IS RELATED TO THE PHASE II EFFORT, IT SHOULD BE ISSUED AS A 6000 SERIES EOI. RECOMMEND RLCA ISSUE A NEW EOI AND CLOSE FILE 1111 OUT.										
1111	821221	OD	3	830110	RLCA	PPRR/CI	TES	RDF		PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: THIS EOI WILL BE CLOSED AND EOI 6001 ISSUED TO REFLECT THE PHASE II ITEMS.										
1111	821221	OD	4	830120	TES	PRR/CI	TES	RDF		PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: THIS EOI TO BE CLOSED AND EOI 6001 ISSUED TO REFLECT THE PHASE II ITEMS.										
1111	821221	OD	5	830120	TES	CR	NONE	RDF	NO	PH II. INDEPENDENT CALCS-PIPING & PIPE SUPPORTS
COMMENT: MANY PREV. OPEN EOIS APPLY BOTH PH I & PH II. DCP WILL REVIEW PIPING & SUPT FOR BOTH PH I & PH II CRITERIA.COMPARISON OF INDEP CALCS TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS.DCP WILL REVIEW PIPING TO ADDRESS PREV IDENTIFIED IDVP ER RPTS (PH I ONLY PRIOR TO 811130) & ITP OPEN ITEMS. THIS EOI TO BE CLOSED & EOI 6001 ISSUED TO REFLECT PH II ITEM										
1112	821229	OD	0	821229	RLCA	OIR	RLCA	RDC		SOILS - INTAKE STRUCTURE
COMMENT: BORINGS 18-22 INCLUDED IN 6805 HARDING-MILLER-LAWSON SOILS REPORT ARE SHOWN ON SITE PLAN AND SUBSURFACE SECT. (PLATE I-1) TO BE IN INTAKE LINE AREA (SECT. A-A, PLATE I-1). BORING LOGS INCLUDED IN REPORT NOTE THESE BORINGS IN DISCHARGE LINE AREA (SECT. B-B, PLATE I-1)										
1112	821229	OD	1	821229	RLCA	PPRR/OIP	TES	RDC		SOILS - INTAKE STRUCTURE
COMMENT: DCP TO CLARIFY THE LOCATION OF BORINGS 18 THROUGH 22 INCLUDED IN THE 6805 SOILS REPORT.										
1112	821229	OD	2	830105	TES	PRR/OIP	PG&E	RDC		SOILS - INTAKE STRUCTURE
COMMENT: DCP TO CLARIFY THE LOCATION OF BORINGS 18 THROUGH 22 INCLUDED IN THE MAY 1968 SOILS REPORT.										
1112	821229	OD	3	830215	TES	OIR	RLCA	RDC		SOILS - INTAKE STRUCTURE
COMMENT: RLCA AND TES TO REVIEW RESPONSE IN THE DCP CPMPLETION SHEEP BY R.R. FRAY DATED 830118 AND DISPOSITION THIS FILE.										
1112	821229	OD	4	830215	RLCA	PPRR/DEV	TES	RDC		SOILS - INTAKE STRUCTURE
COMMENT: BORINGS 18 THRU 22 INCLUDED IN 6805 HMLA SOILS REPORT ARE SHOWN IN INTAKE LINE AREA ON SITE PLAN AND SUBSURFACE SECTION. THE BORING LOGS INCLUDED IN REPORT SHOW THEM TO BE IN DISCHARGE AREA. BASED ON PG&E COMPLETION SHEET, BORING LOGS IN REPORT ARE INCORRECTLY LABELED.										
1112	821229	OD	5	830222	TES	PRR/DEV	TES	RDC		SOILS - INTAKE STRUCTURE
COMMENT: BORINGS 18 THRU 22 INCLUDED IN 6805 HMLA SOILS REPORT ARE SHOWN IN INTAKE LINE AREA ON SITE PLAN AND SUBSURFACE SECTION. THE BORING LOGS INCLUDED IN REPORT SHOW THEM TO BE IN DISCHARGE AREA. BASED ON PG&E COMPLETION SHEET, BORING LOGS IN REPORT ARE INCORRECTLY LABELED.										
1112	821229	OD	6	830222	TES	CR	NONE	RDC	NO	SOILS - INTAKE STRUCTURE
COMMENT: BORINGS 18 THRU 22 INCLUDED IN 6805 HMLA SOILS REPORT ARE SHOWN IN INTAKE LINE AREA ON SITE PLAN AND SUBSURFACE SECTION. THE BORING LOGS INCLUDED IN REPORT SHOW THEM TO BE IN DISCHARGE AREA. BASED ON PG&E COMPLETION SHEET, BORING LOGS IN REPORT ARE INCORRECTLY LABELED. DEVIATION.										
1113	830201	ICD	0	830201	RLCA	OIR	RLCA	JCT		COMPONENT COOLING WATER PUMP ANALYSIS
COMMENT: RESULTS OF THE DESIGN AND INDEPENDENT VERIFICATION ANALYSIS DIFFER BY MORE THAN 15%. ALL STRESSES ARE BELOW ALLOWABLES.										
1113	830201	ICD	1	830201	RLCA	PPRR/CI	TES	JCT		COMPONENT COOLING WATER PUMP ANALYSIS
COMMENT: RESULTS OF THE DESIGN AND INDEPENDENT VERIFICATION ANALYSIS DIFFER BY MORE THAN 15%. ALL STRESSES ARE BELOW ALLOWABLES.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1113	830201	ICD	2	830204	TES	PRR/CI	TES	JCT		COMPONENT COOLING WATER PUMP ANALYSIS
COMMENT:	RESULT OF DESIGN AND VERIFICATION ANALYSES DIFFER BY MORE THAN 15% DUE TO DESIGN ANALYSIS' USE OF LOW IMPELLER WEIGHT, SHORT SHAFT SUPPORT SPAN, AND SMALLER FOUNDATION PLATE THICKNESS. ALL INDEPENDENTLY CALCULATED STRESSES ARE BELOW THE ALLOWABLE VALUES.									
1113	830201	ICD	3	830204	TES	CR	NONE	JCT	NO	COMPONENT COOLING WATER PUMP ANALYSIS
COMMENT:	RESULTS OF DESIGN AND INDEPENDENT VERIFICATION ANALYSES DIFFER BY MORE THAN 15%. DIFFERENCES DUE TO DESIGN ANALYSIS' US OF LOW IMPELLER WEIGHT, SHORT SHAFT SUPPORT SPAN, AND SMALLER FOUNDATION PLATE THICKNESS. ALL INDEPENDENTLY CALCULATED STRESSES ARE BELOW THE ALLOWABLE VALUES. CLOSED ITEM.									
1114	830215	DMD	0	830215	RLCA	OIR	RLCA	JCT		AUXILIARY SALTWATER PUMP
COMMENT:	DESIGN ANALYSIS FOR AFW PUMP DOES NOT CONSIDER VIRTUAL MASS CONTRIBUTION OF WATER SURROUNDING ON SUBMERGED PUMP CASTING. VERIFICATION ANALYSIS CONSIDERED THE VIRTUAL WATER MASS CONTRIBUTION AND FOUND ALL STRESSES TO BE BELOW THE ALLOWABLE.									
1114	830215	DMD	1	830215	RLCA	PER/C	TES	JCT		AUXILIARY SALTWATER PUMP
COMMENT:	DESIGN ANALYSIS FOR AFW PUMP DOES NOT CONSIDER VIRTUAL MASS CONTRIBUTION OF WATER SURROUNDING ON SUBMERGED PUMP CASTING. VERIFICATION ANALYSIS CONSIDERED THE VIRTUAL WATER MASS CONTRIBUTION AND FOUND ALL STRESSES TO BE BELOW THE ALLOWABLE.									
1114	830215	DMD	2	830215	TES	ER/C	PG&E	JCT		AUXILIARY SALTWATER PUMP
COMMENT:	DESIGN ANALYSIS FOR AFW PUMP DOES NOT CONSIDER VIRTUAL MASS CONTRIBUTION OF WATER SURROUNDING ON SUBMERGED PUMP CASTING. VERIFICATION ANALYSIS CONSIDERED THE VIRTUAL WATER MASS CONTRIBUTION AND FOUND ALL STRESSES TO BE BELOW THE ALLOWABLE.									
1114	830215	DMD	3	830314	TES	CR	NONE	JCT	NO	AUXILIARY SALTWATER PUMP
COMMENT:	DESIGN ANALYSIS FOR AFW PUMP DOES NOT CONSIDER VIRTUAL MASS CONTRIBUTION OF WATER SURROUNDING ON SUBMERGED PUMP CASTING. VERIFICATION ANALYSIS CONSIDERED THE VIRTUAL WATER MASS CONTRIBUTION AND FOUND ALL STRESSES TO BE BELOW THE ALLOWABLE. ERROR CLASS C.									
1115	830216	OD	0	830216	RLCA	OIR	RLCA	JFM		PHASE I INDEPENDENT CALC. - PIPE SUPPORTS
COMMENT:	PG&E PH I REPORT PROVIDES FOR COMPLETE REVIEW OF ALL DESIGN CLASS I LARGE BORE PIPE SUPPORTS BY DCP. COMPARISON OF IDVP INDEPENDENT CALCS TO SUPERCEDED DCP WILL NOT PROVIDE MEANINGFUL RESULTS. COMBINES INTO 1098 AS ERROR A/B. IDVP WILL REVIEW DCP WORK AS DETAILED IN ITR-8, REV. 0.									
1115	830216	OD	1	830216	RLCA	PPRR/CI	TES	JFM		PHASE I INDEPENDENT CALC. - PIPE SUPPORTS
COMMENT:	PG&E PH I REPORT PROVIDES FOR COMPLETE REVIEW OF ALL DESIGN CLASS I LARGE BORE PIPE SUPPORTS BY DCP. COMPARISON OF IDVP INDEPENDENT CALCS TO SUPERCEDED DCP WILL NOT PROVIDE MEANINGFUL RESULTS. COMBINES INTO 1098 AS ERROR A/B. IDVP WILL REVIEW DCP WORK AS DETAILED IN ITR-8, REV. 0.									
1115	830216	OD	2	830225	TES	PRR/CI	TES	JFM		PHASE I INDEPENDENT CALC. - PIPE SUPPORTS
COMMENT:	PG&E PH I REPORT PROVIDES FOR COMPLETE REVIEW OF ALL DESIGN CLASS I LARGE BORE PIPE SUPPORTS BY DCP. COMPARISON OF IDVP INDEPENDENT CALCS TO SUPERCEDED DCP WILL NOT PROVIDE MEANINGFUL RESULTS. COMBINES INTO 1098 AS ERROR A/B. IDVP WILL REVIEW DCP WORK AS DETAILED IN ITR-8, REV. 0.									
1115	830216	OD	3	830225	TES	CR	NONE	JFM	NO	PHASE I INDEPENDENT CALC. - PIPE SUPPORTS
COMMENT:	PG&E PH I REPORT PROVIDES FOR COMPLETE REVIEW OF ALL DESIGN CLASS I LARGE BORE PIPE SUPPORTS BY DCP. COMPARISON OF IDVP INDEPENDENT CALCS TO SUPERCEDED DCP WILL NOT PROVIDE MEANINGFUL RESULTS. COMBINES INTO 1098 AS ERROR A/B. IDVP WILL REVIEW DCP WORK AS DETAILED IN ITR-8, REV. 0. CLOSED ITEM.									
1116	830218	ICD	0	830218	RLCA	OIR	RLCA	JCT		MAIN STEAM ISOLATION VALVE FCV-41
COMMENT:	RESULTS OF DESIGN ANALYSIS AND INDEPENDENT VERIFICATION ANALYSIS DIFFER BY MORE THAN 15%. ALL STRESSES ARE BELOW ALLOWABLE.									
1116	830218	ICD	1	830218	RLCA	PPRR/CI	TES	JCT		MAIN STEAM ISOLATION VALVE FCV-41
COMMENT:	INDEPENDENT VERIFICATION ANALYSIS RLCA P105-4-530-001, REV. 0. DESIGN ANALYSIS, EDS CALCULATION NO. 1700-009-001, REV. 2, BOOKS 1 AND 2. RESULTS OF DESIGN ANALYSIS AND INDEPENDENT VERIFICATION ANALYSIS DIFFER BY MORE THAN 15%, ALL STRESSES ARE BELOW ALLOWABLE.									
1116	830218	ICD	2	830222	TES	PRR/CI	TES	JCT		MAIN STEAM ISOLATION VALVE FCV-41
COMMENT:	RESULTS OF DESIGN AND VERIFICATION ANALYSES DIFFER BY MORE THAN 15%. DESIGN ANALYSIS DETERMINED ACCEPTABLE ACCELERATION TO SATISFY STRESS CRITERIA. VERIFICATION ANALYSIS APPLIED HOSGRI QUALIFICATION ACCELERATION LEVELS AND COMPARED STRESSES TO STRESS CRITERIA. ALL CALCULATED STRESSES BELOW ALLOWABLES.									
1116	830218	ICD	3	830222	TES	CR	NONE	JCT	NO	MAIN STEAM ISOLATION VALVE FCV-41
COMMENT:	RESULTS OF DESIGN AND VERIFICATION ANALYSES DIFFER BY MORE THAN 15%. DESIGN ANALYSIS DETERMINED ACCEPTABLE ACCELERATION TO SATISFY STRESS CRITERIA. VERIFICATION ANALYSIS APPLIED HOSGRI QUALIFICATION ACCELERATION LEVELS AND COMPARED STRESSES TO STRESS CRITERIA. ALL CALCULATED STRESSES BELOW ALLOWABLES. CLOSED ITEM.									
1117	830316	DMD	0	830316	RLCA	OIR	RLCA	CHK		NATURAL FREQ INSTRUMENTATION POWER AC PANEL BOARDS
COMMENT:	DYNAMIC DESIGN ANALYSIS OF PANEL USES SIMPLY SUPPORTED BEAM W/2 EQUAL CONCENTRATED MASSES. FREQ. CALC. USES STIFFNESS W/SIMPLY SUPPORTED BEAM AND ONE MASS IN MIDDLE (EQUAL TO ONE OF THE TWO MASSES) FN CALC INCORRECT. FN USING CORRECT FORMULATION GREATER THAN 33 HZ.									

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1117	830316	DMD	1	830316	RLCA	PER/C	TES	CHK		NATURAL FREQ INSTRUMENTATION POWER AC PANEL BOARDS
COMMENT:	DYNAMIC DESIGN ANALYSIS OF PANEL USES SIMPLY SUPPORTED BEAM W/2 EQUAL CONCENTRATED MASSES. FREQ. CALC. USES STIFFNESS W/SIMPLY SUPPORTED BEAM AND ONE MASS IN MIDDLE (EQUAL TO ONE OF THE TWO MASSES) FN CALC INCORRECT. FN USING CORRECT FORMULATION GREATER THAN 33 HZ.									
1117	830316	DMD	2	830325	TES	ER/C	PG&E	CHK		INSTRUMENTATION POWER AC PANEL BOARDS
COMMENT:	DYNAMIC DESIGN ANALYSIS OF PANEL USES SIMPLY SUPPORTED BEAM W/2 EQUAL CONCENTRATED MASSES. FREQUENCY CALC USES UNCONSRV. STATIC DEFLECTONS AT CONCENTRATED MASS FORCE LOCATIONS. CALC FN INCORRECT FOR DYNAMAIC MODEL CONSIDERED. IDVP CALCS SHOW FN GREATER THAN 33HZ. ERROR DESCRIPTION REVISED FROM REV.1 BY 830325 PROGRAM REVIEW COMMITTEE TO CLARIFY NATURE OF ERROR									
1117	830316	DMD	3	830419	TES	CR	NONE	CHK	NO	INSTRUMENTATION POWER AC PANEL BOARDS
COMMENT:	DYNAMIC DESIGN ANALYSIS OF PANEL USES SIMPLY SUPPORTED BEAM W/2 EQUAL CONCENTRATED MASSES. FREQUENCY CALC USES UNCONSRV. STATIC DEFLECTONS AT CONCENTRATED MASS FORCE LOCATIONS. CALC FN INCORRECT FOR DYNAMAIC MODEL CONSIDERED. IDVP CALCS SHOW FN GREATER THAN 33HZ. ER DESCRIPT. REVISED FROM REV.1 BY 830325 PROGRAM REVIEW COMMITTEE TO CLARIFY NATURE OF ERROR.ER/C									
1118	830319	OD	0	830319	RLCA	OIR	RLCA	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	SHAKE TABLE TESTING REPORT NOTES 480V VITAL LOAD CENTER ATTACHMENT TO ONLY WALL AND FLOOR AT ELEVATION 100'. FIELD VERIFICATION SHOWS ATTACHMENT TO CEILING AT ELEVATION 115'. CEILING ATTACHMENT AT ELEVATION 115' MAY IMPOSE HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN WERE CONSIDERED IN THE TEST.									
1118	830319	OD	1	830319	RLCA	PPRR/OIP	TES	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	SHAKE TABLE TESTING REPORT NOTES 480V VITAL LOAD CENTER ATTACHMENT TO ONLY WALL AND FLOOR AT ELEVATION 100'. FIELD VERIFICATION SHOWS ATTACHMENT TO CEILING AT ELEVATION 115'. CEILING ATTACHMENT AT ELEVATION 115' MAY IMPOSE HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN WERE CONSIDERED IN THE TEST.									
1118	830319	OD	2	830323	TES	PRR/OIP	PG&E	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	SHAKE TABLE TESTING REPORT NOTES 480V VITAL LOAD CENTER ATTACHMENT TO ONLY WALL AND FLOOR AT ELEVATION 100'. FIELD VERIFICATION SHOWS ATTACHMENT TO CEILING AT ELEVATION 115'. CEILING ATTACHMENT AT ELEVATION 115' MAY IMPOSE HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN WERE CONSIDERED IN THE TEST. PG&E TO EVALUATE SITUATION AND RECOMMEND RESOLUTION.									
1118	830319	OD	3	830407	TES	OIR	RLCA	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	SHAKE TABLE TESTING REPORT NOTES 480V VITAL LOAD CENTER ATTACHMENT TO ONLY WALL AND FLOOR @ 100'. FIELD SHOWS ELEVATION @ 115'. HIGHER SEISMIC RESPONSES IN EW DIRECTION MAY RESULT. RLCA TO REVIEW 830406 COMP SHEET AND PROVIDE RECOMMENDATION.									
1118	830319	OD	4	830411	RLCA	PER/C	TES	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	ORIGINAL SHAKE TABLE TEST NOTED FLOOR AND WALL ATTACHMENT @ EL 100'. FIELD SHOWS CEILING ATTACHMENT @ 115'. HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN THOSE CONSIDERED IN INITIAL TEST. 830308 DCP REVIEW SHOWS AVERAGE EL 115' SPECTRA ENVELOPED BY TEST RESPONSE SPECTRA.									
1118	830319	OD	5	830415	TES	PRR/DEV	PG&E	RRB		ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	ORIGINAL SHAKE TABLE TEST NOTED FLOOR AND WALL ATTACHMENT @ EL 100'. FIELD SHOWS CEILING ATTACHMENT @ 115'. HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN THOSE CONSIDERED IN INITIAL TEST. 830308 DCP REVIEW SHOWS AVERAGE EL 115' SPECTRA ENVELOPED BY TEST RESPONSE SPECTRA. BASED ON 830415 PROGRAM REVIEW COM., FILE CHANGED FROM PER/C TO DEV.									
1118	830319	OD	6	830415	TES	CR	NONE	RRB	NO	ELEC EQUIP/SHAKE TABLE-480 VOLT VITAL LOAD CENTER
COMMENT:	ORIGINAL SHAKE TABLE TEST NOTED FLOOR AND WALL ATTACHMENT @ EL 100'. FIELD SHOWS CEILING ATTACHMENT @ 115'. HIGHER SEISMIC RESPONSES IN EW DIRECTION THAN THOSE CONSIDERED IN INITIAL TEST. 830308 DCP REVIEW SHOWS AVERAGE EL 115' SPECTRA ENVELOPED BY TEST RESPONSE SPECTRA. BASED ON 830415 PROGRAM REVIEW COM., FILE CHANGED FROM PER/C TO DEV.									
1119	830319	OD	0	830319	RLCA	OIR	RLCA	RRB		ELEC EQUIP/SHAKE TABLE - DC DISTRIBUTION PANEL
COMMENT:	DCP HAS EVALUATED DIFFERENCES BTWN IN-SERVICE MOUNTINGS AND SHAKE TABLE CONNECTIONS BY ANALYZING IN-SERVICE MOUNTING CONNECTIONS AND FOUND THESE TO MEET ALLOWABLES. ORIGINAL TEST DIDN'T ADEQUATELY DOCUMENT QUAL. MOUNTING. CONSERVATISM OF QUAL. MOUNTING W/RESPECT TO IN-SERVICE MOUNTING CAN'T BE DEMONSTRATED.DCP CALCS SHOW IN-SERV MOUNT TO MEET ALLOWABLE.									
1119	830319	OD	1	830319	RLCA	PER/C	TES	RRB		ELEC EQUIP/SHAKE TABLE - DC DISTRIBUTION PANEL
COMMENT:	DCP HAS EVALUATED DIFFERENCES BTWN IN-SERVICE MOUNTINGS AND SHAKE TABLE CONNECTIONS BY ANALYZING IN-SERVICE MOUNTING CONNECTIONS AND FOUND THESE TO MEET ALLOWABLES. ORIGINAL TEST DIDN'T ADEQUATELY DOCUMENT QUAL. MOUNTING. CONSERVATISM OF QUAL. MOUNTING W/RESPECT TO IN-SERVICE MOUNTING CAN'T BE DEMONSTRATED.DCP CALCS SHOW IN-SERV MOUNT TO MEET ALLOWABLE.									
1119	830319	OD	2	830323	TES	ER/C	PG&E	RRB		ELEC EQUIP/SHAKE TABLE - DC DISTRIBUTION PANEL
COMMENT:	DCP HAS EVALUATED DIFFERENCES BTWN IN-SERVICE MOUNTINGS AND SHAKE TABLE CONNECTIONS BY ANALYZING IN-SERVICE MOUNTING CONNECTIONS AND FOUND THESE TO MEET ALLOWABLES. ORIGINAL TEST DIDN'T ADEQUATELY DOCUMENT QUAL. MOUNTING. CONSERVATISM OF QUAL. MOUNTING W/RESPECT TO IN-SERVICE MOUNTING CAN'T BE DEMONSTRATED.DCP CALCS SHOW IN-SERV MOUNT TO MEET ALLOWABLE.									
1119	830319	OD	3	830415	TES	CR	NONE	RRB	NO	ELEC EQUIP/SHAKE TABLE - DC DISTRIBUTION PANEL
COMMENT:	DCP HAS EVALUATED DIFFERENCES BTWN IN-SERVICE MOUNTINGS AND SHAKE TABLE CONNECTIONS BY ANALYZING IN-SERVICE MOUNTING CONNECTIONS AND FOUND THESE TO MEET ALLOWABLES. ORIGINAL TEST DIDN'T ADEQUATELY DOCUMENT QUAL. MOUNTING. CONSERVATISM OF QUAL. MOUNTING W/RESPECT TO IN-SERV MOUNT CAN'T BE DEMONSTRATED.DCP CALCS SHOW IN-SERV MOUNT TO MEET ALLOWABLE. ER/C.									
1120	830322	FID	0	830322	RLCA	OIR	RLCA	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT:	DESIGN ANALYSIS HV-4.1 SHOWS 3/4" EXT. HOUSING MOUNTING BOLTS USED IN EARLIER EBS CALC. IDVP FIELD CHECK SHOWS BOLTS TO BE 1/2". IDVP FACTORED BOLT STRESS IN D.A. BY DIFFERENCE IN BOLT SIZE (3/4" VS. 1/2"). RESULTANT BOLT STRESS EXCEEDS ALLOWABLE. DCP HAS REVISED D.A. AS A RESULT OF IDVP FIELD VERIFICATION TO SHOW BOLT STRESS TO BE BELOW ALLOWABLE.									

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
1120	830322	FID	1	830322	RLCA	PER/B	TES	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: DESIGN ANALYSIS HV-4.1 SHOWS 3/4" EXT. HOUSING MOUNTING BOLTS USED IN EARLIER EDS CALC. IDVP FIELD CHECK SHOWS BOLTS TO BE 1/2". IDVP FACTORED BOLT STRESS IN D.A. BY DIFFERENCE IN BOLT SIZE (3/4" VS. 1/2"). RESULTANT BOLT STRESS EXCEEDS ALLOWABLE. DCP HAS REVISED D.A. AS A RESULT OF IDVP FIELD VERIFICATION TO SHOW BOLT STRESS TO BE BELOW ALLOWABLE.										
1120	830322	FID	2	830405	TES	ER/B	PG&E	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: DESIGN ANALYSIS SHOWS 3/4" EXTERIOR HOUSING MOUNTING BOLTS USED IN EARLIER EDS CALC WERE ACCEPTED IN PH I DCP CAP. IDVP FOUND 1/2" BOLTS AND FACTORED BOLT STRESS BY DIFFERENCE IN BOLT SIZE. STRESS EXCEEDS ALLOWABLE. DCP HAS REVISED D.A. AND ABLE TO SHOW STRESSES BELOW ALLOWABLE.										
1120	830322	FID	3	830420	TES	OIR	RLCA	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: ADVERSE EFFECT OF LOWER BOLT SIZE ON STRESS COMPENSATED FOR BY INCREASED NUMBER OF BOLTS AND OVERALL BOLT SPACING. TES RECOMMENDS RLCA TO REVIEW THIS FILE AND CONSIDER DOWNGRADING IT FROM AN ER/B TO AN ER/C.										
1120	830322	FID	4	830429	RLCA	PER/C	TES	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: ORIGINAL EDS CALC SHOWED FOUR 3/4" MOUNTING BOLTS. FIELD SHOWS 1/2". HOWEVER, ADVERSE EFFECT OF SMALLER BOLT SIZE COMPENSATE BY ACTUAL FIELD CONFIGURATION (6 MOUNTINGS AS OPPOSED TO 4 IN DESIGN ANALYSIS) DOWNGRADED FROM ER/B TO ER/C SINCE CRITERIA OR LIMITS HAVEN'T BEEN EXCEEDED.										
1120	830322	FID	5	830504	TES	ER/C	PG&E	CHK		CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: ORIGINAL EDS CALC SHOWED FOUR 3/4" MOUNTING BOLTS. FIELD SHOWS 1/2". HOWEVER, ADVERSE EFFECT OF SMALLER BOLT SIZE COMPENSATE BY ACTUAL FIELD CONFIGURATION (6 MOUNTINGS AS OPPOSED TO 4 IN DESIGN ANALYSIS) DOWNGRADED FROM ER/B TO ER/C SINCE CRITERIA OR LIMITS HAVEN'T BEEN EXCEEDED.										
1120	830322	FID	6	830507	TES	CR	NONE	CHK	NO	CONDENSORS CR-35 (PHASE I DCP CORRECTIVE ACTION)
COMMENT: ORIGINAL EDS CALC SHOWED FOUR 3/4" MOUNTING BOLTS. FIELD SHOWS 1/2". HOWEVER, ADVERSE EFFECT OF SMALLER BOLT SIZE COMPENSATE BY ACTUAL FIELD CONFIGURATION (6 MOUNTINGS AS OPPOSED TO 4 IN DESIGN ANALYSIS) DOWNGRADED FROM ER/B TO ER/C SINCE CRITERIA OR LIMITS HAVEN'T BEEN EXCEEDED.										
1121	830506	FID	0	830506	RLCA	OIR	RLCA	CHK		BOLT SIZE, FILTER UNIT - 39.
COMMENT: DESIGN ANALYSIS HV-5.11, R. 0 SHOWS ANCHOR BOLT SIZE OF 5/8" BETWEEN CONCRETE SLAB AND WIDE FLANGE BASE BEAM. FIELD SHOWS 1/2" DIAMETER. RLCA TO DETERMINE SIGNIFICANCE. WILL BE EXAMINED W/1096 AND 1120 FOR POSSIBLE GENERIC CONCERN RE: HVAC COMPONENT HOLD DOWN BOLT SIZE.										
1121	830506	FID	1	830608	RLCA	PER/C	TES	CHK		BOLT SIZE, FILTER UNIT - 39.
COMMENT: DCP REVISED ANALYSIS SHOWS BOLTS TO MEET ALLOWABLES AND DESIGN CRITERIA. RESULT OF THIS EOI, 1096 AND 1020, POSSIBLE GENERIC CONCERN, EVEN THOUGH NO OVERSTRESS. RLCA WILL REVIEW DCP BOLT SIZE PROGRAM AND SPECIFIC SAMPLE OF CL. I HOLD-DOWN BOLTS.										
1121	830506	FID	2	830610	TES	ER/C	PG&E	CHK		BOLT SIZE, FILTER UNIT - 39.
COMMENT: DCP REVISED ANALYSIS SHOWS BOLTS TO MEET ALLOWABLES AND DESIGN CRITERIA. RESULT OF THIS EOI, 1096 AND 1020, POSSIBLE GENERIC CONCERN, EVEN THOUGH NO OVERSTRESS. RLCA WILL REVIEW DCP BOLT SIZE PROGRAM AND IF DEEMED NECESSARY, A SPECIFIC SAMPLE OF CL. I HOLD-DOWN BOLTS.										
1121	830506	FID	3	830610	TES	CR	NONE	CHK	NO	BOLT SIZE, FILTER UNIT - 39.
COMMENT: DISCREPANCY BETWEEN HOLD-DOWN BOLT SIZE IN D.A. AND IN FIELD. DCP REVISED ANALYSIS SHOWS BOLTS TO MEET ALLOWABLES AND DESIGN CRITERIA. RESULT OF THIS EOI, 1096 AND 1020, POSSIBLE GENERIC CONCERN, EVEN THOUGH NO OVERSTRESS. RLCA WILL REVIEW DCP BOLT SIZE PROGRAM AND IF DEEMED NECESSARY, A SPECIFIC SAMPLE OF CL. I HOLD-DOWN BOLTS.										
1122	830512	OD	0	830512	RLCA	OIR	RLCA	JFM		LARGE BORE PIPE SUPPORT 10/70SL
COMMENT: DESIGN ANALYSIS CALC NO. S-1201 R.3 DOESN'T ADDRESS SUPPORT FREQUENCIES IN UNRESTRAINED DIRECTIONS AS REQUIRED BY LICENSING CRITERIA. SIMPLIFIED IDVP CALCS SHOWS FREQUENCIES LESS THAN 20 HZ. DCP INDICATES ANALYSIS HAS BEEN REVISED (REV 4) AND IT ADDRESSES AND SHOWS ALL FREQ. IN UNRESTRAINED DIRECTION GREATER THAN 20 HZ. IDVP WILL VERIFY CALC										
1122	0		1	0						
COMMENT: SPACE PROVIDED FOR LATER REVISIONS.										
1122	0		2	0						
COMMENT: SPACE PROVIDED FOR LATER REVISIONS.										
1122	0		3	0						
COMMENT: SPACE PROVIDED FOR LATER REVISIONS.										
1122	0		4	0						
COMMENT: SPACE PROVIDED FOR LATER REVISIONS.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1122	0		5	0						
COMMENT: SPACE PROVIDED FOR LATER REVISIONS.										
1123	830513	OD	0	830513	RLCA	OIR	RLCA	RCW		INSTRUMENTATION TUBING SUPPORT
COMMENT: DESIGN ANALYSIS ITS-5, R. 0 ASSUMES SUPPORT MEMBER TO BE A 1202 SECTION. D.A. ITS-5, R.1 PROVIDES AS-BUILT DATA THAT SHOWS A B 1202 SECTION. SIMPLIFIED D.A. FOR SUPPORT MEMBER INDICATES STRESS ABOVE ALLOWABLE IF CORRECT SECTION PROPERTY (J) IS USED. REPRESENTS SOLE INSTANCE WHERE LICENSING CRITERIA MAY HAVE BEEN EXCEEDED.										
1123	0		1	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1123	0		2	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1123	0		3	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1123	0		4	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1123	0		5	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1124	830514	OD	0	830514	RLCA	OIR	RLCA	RDC		AUXILIARY BUILDING SPECTRA GENERATION
COMMENT: D.A. F.E. MODEL C.R. SLAB USED TO GENERATE HOSGRI RESPONSE SPECTRA DOESN'T AGREE WITH FIELD LOCATION OF SUPPORTING WALLS. SPAN LENGTHS OF SLAB MAY SHIFT FREQUENCY AND APPROACH FUNDAMENTAL VERTICAL FREQUENCY AND PROVIDE INCREASED AMPLIFICATION. CLASSIFICATION OF EOI WILL DEPEND ON SUBSEQUENT VERIFICATION.										
1124	0		1	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1124	0		2	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1124	0		3	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1124	0		4	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1124	0		5	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
1125	830520	SID	0	830520	RLCA	OIR	RLCA	CHK		HVAC COMPRESSOR CP-35, 36
COMMENT: CONTROL AND APPLICATION OF HOSGRI SPECTRA WAS IDENTIFIED IN INITIAL SAMPLE AS A GENERIC CONCERN. DCP CAP FORMULATED TO INCLUDE REVIEW FOR CORRECT HOSGRI SPECTRA INPUTS. DESIGN ANALYSIS D-HV-3.1-1, REV. 1 USES INCORRECT AND UNCONSERVATIVE SPECTRA. NO OVERSTRESS										
1125	830520	SID	1	830526	RLCA	PER/C	TES	CHK		HVAC COMPRESSOR CP-35, 36
COMMENT: CALC D-HV-3.1-1 REV. 1 USES INCORRECT AND UNCONSERVATIVE SPECTRA. CONTROL AND APPLICATION OF HOSGRI SPECTRA ID DURING INITIAL SAMPLE WORK AS GENERIC CONCERN. DCP CAP FORMULATED TO INCLUDE REVIEW FOR CORRECT HOSGRI SPECTRA INPUTS. THIS ITEM DOES NOT CAUSE OVERSTRESS.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1125	830520	SID	2	830602	TES	ER/C	PG&E CHK			HVAC COMPRESSOR CP-35, 36

COMMENT: CALC D-HV-3.1-1 REV. 1 USES INCORRECT AND UNCONSERVATIVE SPECTRA. CONTROL AND APPLICATION OF HOSGRI SPECTRA ID DURING INITIAL SAMPLE WORK AS GENERIC CONCERN. DCP CAP FORMULATED TO INCLUDE REVIEW FOR CORRECT HOSGRI SPECTRA INPUTS. THIS ITEM DOES NOT CAUSE OVERSTRESS.

1125	830520	SID	3	830609	TES	CR	NONE CHK		NO	HVAC COMPRESSOR CP-35, 36

COMMENT: CONTROL AND APPLICATION OF HOSGRI SPECTRA WAS IDENTIFIED DURING INITIAL SAMPLE AS GENERIC CONCERN. DCP CAP FORMULATED TO INCLUDE REVIEW FOR CORRECT HOSGRI INPUTS. D-HV-3.1-1, REV. 1 USES INCORRECT AND UNCONSERVATIVE SPECTRA. REV 2 INDICATES THIS ITEM DOES NOT CAUSE AN OVERSTRESS.

1126	830520	DMD	0	830520	RLCA	OIR	RLCA RDF			SIF - CORRECTIVE ACTION PIPING

COMMENT: DCP NOT APPLYING SIF OF 1.8 AT INTERMEDIATE BUTT WELD LOCATIONS ON STRAIGHT PIPE (GENERIC CONCERN). AT VALVE/ELBOW INTERFACE, ME-101 PIPING ANALYSIS PROGRAM DOESN'T APPLY TAPER TRANSITION SIF TO ELBOW SIDE OF JOINT (NO OVERSTRESS). DCP TAKEN STEPS TO ADDRESS THIS GENERIC CONCERN.

1127	830525	DMD	0	830525	RLCA	OIR	RLCA CHK			HVAC SUPPLY FANS S-1, 2

COMMENT: DCP FREQUENCY CALC CONSIDERED ONLY BEARING BLOCK SUPPORT BEAM AND DOES NOT INCLUDE OTHER FLEXIBILITIES OF FAN SUPPORTING STRUCTURE. A MORE REALISTIC FREQUENCY MAY RESULT IN HIGHER SEISMIC ACCELERATIONS WHICH WOULD AFFECT STRESS RESULTS OF THIS ANALYSIS.

1127	830525	DMD	1	830613	RLCA	PPRR/CI	TES	CHK		HVAC SUPPLY FANS S-1, 2

COMMENT: DCP FREQUENCY CALC ACCEPTABLE BASED ON SIMILARITIES WITH RLCA INITIAL SAMPLE WORK (FAN S-31), ADDITIONAL FLEXIBILITIES NOT SIGNIFICANT. DCP BEARING BLOCK SUPPORT BEAM FREQUENCY CALC IS CORRECT, ORIGINAL RLCA CONCERN NOT VALID.

1127	830525	DMD	2	830616	TES	PRR/CI	TES	CHK		HVAC SUPPLY FANS S-1, 2

COMMENT: DCP FREQUENCY CALC FOUND ACCEPTABLE BASED UPON SIMILARITIES WITH RLCA INITIAL SAMPLE WORK (FAN S-31); THE ADDITIONAL FLEXIBILITIES ARE NOT SIGNIFICANT. DCP BEARING BLOCK SUPPORT BEAM FREQUENCY CALC IS CORRECT, ORIGINAL RLCA CONCERN WAS NOT VALID.

1127	830525	DMD	3	830616	TES	CR	NONE CHK		NO	HVAC SUPPLY FANS S-1, 2

COMMENT: DCP FREQUENCY CALC USED ONLY BEARING BLOCK SUPPORT BEAM AND NOT OTHER FLEX OF FAN SUPPORTING STRUCTURE. FN MAY ACTUALLY BE LOWER. DCP FREQ CALC ACCEPTABLE - SIMILIAR TO INITIAL SAMPLE WORK (FAN S-31). DCP BEARING BLOCK SUPPORT BEAM FREQ CALC CORRECT, ORIGINAL RLCA CONCERN NOT VALID. CLOSED ITEM.

1128	830531	FID	0	830531	RLCA	OIR	RLCA CHK			STATION BATTERY RACKS

COMMENT: D.A. FOR RACKS ASSUMES 1/2" DIAMETER A-307 STRUCTURAL BOLTS. RLCA FIELD VERIFIED BOLTS TO BE 3/8". IF BOLTS THREADED AT SHEAR LOCATIONS SHEAR STRESS EXCEEDS ALLOWABLES BY 63%, IF NOT THREADED, STRESS IS ACCEPTABLE.

1129	830603	OD	0	830603	RLCA	OIR	RLCA JFM			LARGE BORE PIPE SUPPORT 56S/3A

COMMENT: D.A. INCORRECTLY ANALYZED 1/4" WELD BETWEEN PIPE LUG AND SUPPORTING STEEL. WELD STRESS EXCEEDS ALLOWABLE WHEN DIVIDED BY WELD CROSS SECTION. SUPPORT MODIFIED BY DCP. CONFIGURATION QUALIFIED BY CALC NO LONGER EXISTS IN PLANT. NO GENERIC CONCERN.

1130	830603	OD	0	830603	RLCA	OIR	RLCA PPR			COMPONENT COOLING WATER LUBE OIL FILTER

COMMENT: D.A. CONCLUDES COOLER NOT QUALIFIED AND MODS ARE REQUIRED. PG&E PH. I FINAL REPORT STATES IT IS AND MODS NOT NEEDED. ITR #8 R. 0 REQUIRES IDVP TO VERIFY DCP CAP HAS BEEN FULLY IMPLEMENTED. THE SIGNIFICANCE OF CONCERN IS THAT REQUIRED CORRECTIVE ACTION WAS NOT IMPLEMENTED. RLCA TO EXPAND REVIEW IN THIS AREA.

1131	830606	OD	0	830606	RLCA	OIR	RLCA JFM			LARGE BORE PIPE SUPPORTS 58S/16V AND 63/26V

COMMENT: D.A. DO NOT EVALUATE SHEAR LUGS AND ATTACHMENT WELDS. EVALUATION REQUIRED FOR CAP. IDVP WILL REVIEW REVISED DCP CALCS AND EVALUATE THE LUGS AND WELDS BASED ON ORIGINAL LOADS.

1132	830606	OD	0	830606	RLCA	OIR	RLCA RDC			AUXILIARY BUILDING

COMMENT: DCP REPORTED COMPLETION OF AUX BUILDING MEMBER EVALUATIONS. DOES NOT INCLUDE EVALUATION OF SLABS FOR IN-PLANE LOADING. REQUIRED CORRECTIVE ACTION WAS NOT FULLY IMPLEMENTED, YET REPORTED AS COMPLETE. RLCA WILL CONTINUE REVIEW IN CIVIL/STRUCTURAL AREA.

1132	0		1	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1132	0		2	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1132	0		3	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
1132	0		4	0						

COMMENT: SPACE RESERVED FOR LATER REVISION.

1133	830613	OD	0	830613	RLCA	OIR	RLCA	RDF		LARGE BORE PIPING - ANALYSIS 8-117 REV. 2

COMMENT: VALVE 9003A IN D.A. 8-117, REV. 2 WAS MODELLED WITH 2/3 WEIGHT AT OVERALL VALVE C. OF G. SECT 4.5.6.2 OF DCP PROCEDURE P-11 REV. 3 REQUIRES TOTAL VALVE WEIGHT TO BE MODELLED THERE. RLCA TO EXAMINE REV. 3 TO CONFIRM STRESS IMPACT AND CONTINUE REVIEW OF VALVE MODELLING.

1134	830615	OD	0	830615	RLCA	OIR	RLCA	RCW		HVAC DUCT AND DUCT SUPPORTS

COMMENT:

1135	830616	OD	0	830616	RLCA	OIR	RLCA	RDF		LARGE BORE PIPING ANALYSIS 2-120

COMMENT: VALVES LCV-113 AND 115 IN D. A. 2-120 REV. 0 WERE MODELLED WITH VALVE BODY WEIGHT OF 69 LBS AND OPERATOR WEIGHT OF 119 LBS. RLCA REVIEW SHOWED WEIGHTS TO BE APPROXIMATELY 125 LBS AND 130 LBS RESPECTIVELY.

1136	830616	DMD	0	830616	RLCA	OIR	RLCA	PPR		COMPONENT COOLING WATER SURGE TANK

COMMENT: ALLOWABLE CALCULATED IN ANALYSIS IS LARGER THAN ALLOWABLE DEFINED BY CODE. TANK INTERNAL PRESSURE EXCLUDED FROM EVALUATION OF TANK SHELL STRESS AT NOZZLES. BOLT STRESSES WITHIN CORRECT ALLOWABLE. TANK SHELL STRESS EXCEED ALLOWABLE IN FORMAL SENSE. IDVP FAULTED CONDITION EVALUATION SHOWED STRESSES WITHIN ALLOWABLES.

	REV. 0		LATEST REV.				ACTION		PG&E	
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
3000	820524	QAR	0	820524	TES	OIR	TES	WEC		HARDING LAWSON ASSOC. SERVICES
COMMENT: REPLACES AND COMBINES EDI FILES 968, 969, 970.										
3000	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		HARDING LAWSON ASSOC. QA REPORT
COMMENT: REPLACES AND COMBINES EDI FILES 968, 969, 970. TO BE REPLACED BY ITR-2.										
3000	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	HARDING LAWSON ASSOC. QA REPORT
COMMENT: REPLACES AND COMBINES EDI FILES 968, 969, 970. REPLACED BY ITR-2.										
3001	820524	QAR	0	820524	TES	OIR	TES	WEC		EES (CYGNA) Q.A REPROT
COMMENT: REPLACES AND COMBINES EDI FILES 1040 AND 1041.										
3001	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		EES (CYGNA) Q.A REPORT
COMMENT: REPLACES AND COMBINES EDI FILES 1040 AND 1041.										
3001	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	EES (CYGNA) Q.A REPORT
COMMENT: REPLACES AND COMBINES EDI FILES 1040 AND 1041.										
3002	820524	QAR	0	820524	TES	OIR	TES	WEC		AMCO SERVICES Q.A REPROT
COMMENT: REPLACES EDI FILE 1042.										
3002	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		AMCO QA REPORT
COMMENT: REPLACES EDI FILE 1042. TO BE REPLACED BY ITR-2.										
3002	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	AMCO QA REPORT
COMMENT: REPLACES EDI FILE 1042. REPLACED BY ITR-2.										
3003	820524	QAR	0	820524	TES	OIR	TES	WEC		WYLE LAB. SERVICES
COMMENT: REPLACES EDI FILE 1052.										
3003	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		WYLE LAB QA REPORT
COMMENT: REPLACES EDI FILE 1052.										
3003	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	WYLE LAB QA REPORT
COMMENT: REPLACES EDI FILE 1052.										
3004	820524	QAR	0	820524	TES	OIR	TES	WEC		PG&E INTERNAL AND CONTRACTOR INTERFACE DESIGN ACTIV
COMMENT: REPLACES EDI FILES 1064, 1065, AND 1066.										
3004	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		PG&E QA REPORT
COMMENT: REPLACES EDI FILES 1064, 1065, AND 1066.										
3004	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	PG&E QA REPORT
COMMENT: REPLACES EDI FILES 1064, 1065, AND 1066.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
3005	820524	QAR	0	820524	TES	OIR	TES	WEC		URS/BLUME Q.A REPROT
COMMENT: REPLACES EDI FILES 1067 AND 1068.										
3005	820524	QAR	1	820622	TES	PRR/CI	TES	WEC		URS/BLUME QA REPORT
COMMENT: REPLACES EDI FILES 1067 AND 1068.										
3005	820524	QAR	2	820622	TES	CR	NONE	WEC	NO	URS/BLUME QA REPORT
COMMENT: REPLACES EDI FILES 1067 AND 1068.										
3006	821005	OD	0	821005	TES	OIR	TES	RDC		CONTAINMENT ANNULUS STRUCTURE.
COMMENT: REVIEW OF 1981/82 URS/BLUME CALCULATION #JAB-8168-02-CA-06 AND PG&E DRAWING NO. 447245 CH.6 AND 438281 CH.9 QUESTIONS WHETHER FRAME CONSOLIDATION ACCURATELY REPRESENTS THE ANNULUS STRUCTURE.										
3006	821005	OD	1	821103	TES	PRR/CI	TES	RDC		CONTAINMENT ANNULUS STRUCTURE.
COMMENT: CONCERN WILL BE ADDRESSED IN ITP AND REEVALUATION OF CONT. STRUCTURE. 3006 IS COMBINED INTO 1014, WHICH IS AN ERROR A/B PERTAINING TO THE CONTAINMENT STRUCTURE. FILE 3006 IS CLOSED BUT CONCERN IDENTIFIED WILL BE ADDRESSED IN FILE 1014. TES WILL STILL ISSUE AN ITR ON ITS ANNULUS STRUCTURE REVIEW.										
3006	821005	OD	2	821103	TES	CR	NONE	RDC	YES	CONTAINMENT ANNULUS STRUCTURE.
COMMENT: REVIEW OF THE 1981/82 URS/BLUME CALCULATION #JAB-8168-02-CA-06 AND PG&E DRAWING NO.447245 CH.6 AND 438281 CH.9 QUESTIONS WHETHER FRAME CONSOLIDATION ACCURATELY REPRESENTS THE ANNULUS STRUCTURE. THIS FILE TRANSFERRED INTO FILE 1014 WHICH IS ERROR A/B. TES WILL STILL ISSUE AN ITR ON ITS ANNULUS REVIEW.										
3007	821005	OD	0	821005	TES	OIR	TES	RDC		CONTAINMENT ANNULUS STRUCTURE.
COMMENT: COMMENT REVIEW OF 1981/82 URS/BLUME CALC. #JAB-8168-02-CA-06 AND PG&E DWG. NOS. 447245 CH.6 AND 438281 CH.9 QUESTIONS WHETHER THE TANGENTIAL BEAMS WILL HAVE A EFFECT ON THE LOCAL AMPLIFIED RESPONSE SPECTRA.										
3007	821005	OD	1	821103	TES	PRR/CI	TES	RDC		CONTAINMENT ANNULUS STRUCTURE.
COMMENT: THIS CONCERN WILL BE TRANSFERRED TO AND ADDRESSED IN DCP ITP ON CONT. STRUCTURE. THIS FILE COMBINED INTO FILE 1014 WHICH IS AN ERROR A/B. THIS FILE CLOSED BUT WILL BE ADDRESSED IN FILE 1014. TES WILL STILL ISSUE AN ITR ON ITS ANNULUS STRUCTURE REVIEW.										
3007	821005	OD	2	821103	TES	CR	NONE	RDC	YES	CONTAINMENT ANNULUS STRUCTURE.
COMMENT: REVIEW OF 1981/82 URS/BLUME CALC. #JAB-8168-02-CA-06 AND PG&E DWG.#447245 CH.6 & 438281 CH.9 QUESTIONS WHETHER THE TANGENTIAL BEAMS WILL HAVE AN EFFECT ON LOCAL AMPLIFIED RESPONSE SPEC. FILE IS COMB. INTO FILE 1014 WHICH IS AN ERROR A/B. CLOSED.CONCERN WILL BE NOTED IN 1014.TES WILL STILL ISSUE AN ITR ON ITS ANNULUS STRUCT. REVIEW.										
3008	821123	FID	0	821123	TES	OIR	TES	RDC		CONTAINMENT ANNULUS STRUCTURE
COMMENT: BASED ON TES FIELD INSP AND BOSTROM-BERGEN METAL PRODUCTS, DWG NO.DC663243-465-2,THERE IS A DISCREPANCY AT BEAM TO COLUMN CONNECTION,BOTTOM FLANGE AT EL 106',COLUMN LINE 10. FIELD SHOWS WELD SIZE OF 1/4"-1"LONG WHILE DRAWING CALLS FOR 3/8"-3"LONG. WELD COULD POSSIBLY BE OVERSTRESSED.										
3008	821123	FID	1	821220	TES	PRR/CI	TES	RDC		CONTAINMENT ANNULUS STRUCTURE
COMMENT: THIS CONCERN WILL BE TRANSFERRED TO AND ADDRESSED IN THE DCP ITP ON THE CONTAINMENT STRUCTURE. FILE 3008 IS COMBINED INTO 1014, WHICH HAS BEEN CLASSIFIED AS AN ERROR A OR B AND WHICH ALSO PERTAINS TO THE CONTAINMENT STRUCTURE.										
3008	821123	FID	2	821222	TES	CR	NONE	RDC	YES	CONTAINMENT ANNULUS STRUCTURE
COMMENT: BASED ON TES FIELD INSP. AND BOSTROM-BERGEN METAL PRODUCTS, DWG DC663243-465-2, DISCREPENCY AT BEAM TO COLUMN CONNECTION BOTTOM FLANGE AT EL 106, COLUMN LINE 10. FIELD SHOWS WELD SIZE 1/4"-1" LONG. DRAWING CALLS FOR 3/8"-3" LONG. POSSIBLE OVER STRESS. TRANSFERED TO DCP. COMBINED IN TO EDI 1014 WHICH IS AN ERROR CLASS A OR B ALSO PERTAINING TO CONT. STRUCT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
6001	830110	OD	0	830110	RLCA	OIR	RLCA	RDF		PH. II INDEPENDENT CALCS - PIPING & PIPE SUPPORTS
COMMENT: MANY PREVIOUSLY OPEN EOIS APPLY TO BOTH PH. I & PH. II. DCP WILL REVIEW PIPING & SUPPORT FOR BOTH PH. I & PH. II CRITERIA. COMPARISON OF INDEP. CALCS. TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS. DCP WILL REVIEW PIPING TO ADDRESS PREVIOUSLY ID. IDVP ER REPORTS (PH I ONLY PRIOR TO 811130) & ITP OPEN ITEMS. TRANS. TO EOI 1098.										
6001	830110	OD	1	830113	RLCA	PRR/CI	TES	RDF		PH. II INDEPENDENT CALCS - PIPING & PIPE SUPPORTS
COMMENT: MANY PREVIOUSLY OPEN EOIS APPLY TO BOTH PH. I & PH. II. DCP WILL REVIEW PIPING & SUPPORT FOR BOTH PH. I & PH. II CRITERIA. COMPARISON OF INDEP. CALCS. TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS. DCP WILL REVIEW PIPING TO ADDRESS PREVIOUSLY ID. IDVP ER REPORTS (PH I ONLY PRIOR TO 811130) & ITP OPEN ITEMS. TRANS. TO EOI 1098.										
6001	830110	OD	2	830113	TES	PRR/CI	TES	RDF		PH. II INDEPENDENT CALCS - PIPING & PIPE SUPPORTS
COMMENT: MANY PREVIOUSLY OPEN EOIS APPLY TO BOTH PH. I & PH. II. DCP WILL REVIEW PIPING & SUPPORT FOR BOTH PH. I & PH. II CRITERIA. COMPARISON OF INDEP. CALCS. TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS. DCP WILL REVIEW PIPING TO ADDRESS PREVIOUSLY ID. IDVP ER REPORTS (PH I ONLY PRIOR TO 811130) & ITP OPEN ITEMS. TRANS. TO EOI 1098.										
6001	830110	OD	3	830113	TES	CR	NONE	RDF	NO	PH. II INDEPENDENT CALCS - PIPING & PIPE SUPPORTS
COMMENT: MANY PREVIOUSLY OPEN EOIS APPLY TO BOTH PH. I & PH. II. DCP WILL REVIEW PIPING & SUPPORT FOR BOTH PH. I & PH. II CRITERIA. COMPARISON OF INDEP. CALCS. TO SUPERCEDED DCP WORK WILL NOT PROVIDE MEANINGFUL RESULTS. DCP WILL REVIEW PIPING TO ADDRESS PREVIOUSLY ID. IDVP ER REPORTS (PH I ONLY PRIOR TO 811130) & ITP OPEN ITEMS. TRANS. TO EOI 1098. CLOSED ITEM.										
6002	830204	OD	0	830204	RLCA	OIR	RLCA	RDF		IDVP PHASE II INITIAL SAMPLE-RUPTURE RESTRAINTS
COMMENT: DCVP-TES-748 DESCRIBES PROGRAM FOR REANALYSIS OF RUPTURE RESTRAINTS ON SAMPLE BASIS TO ASSURE CRITERIA IS MET. DCP SAMPLE IS LARGER THAN THAT PLANNED BY IDVP. THIS FILE COMBINES WITH 1098. IDVP WILL PREPARE PROGRAM SIMILIAR TO ITR 8, REV. 0 FOR VERIFICATION OF PH. II RUPTURE RESTRAINTS THRU REVIEW OF DCP ACTIVITIES.										
6002	830204	OD	1	830204	RLCA	PRR/CI	TES	RDF		IDVP PHASE II INITIAL SAMPLE-RUPTURE RESTRAINTS
COMMENT: THIS FILE TO BE COMBINED WITH 1098 AS AN ERROR A/B. IDVP WILL PREPARE A PROGRAM SIMILIAR TO ITR 8, REV. 0 'VERIFICATION OF DCP CORRECTIVE ACTION' FOR VERIFICATION OF PH. II RUPTURE RESTRAINTS THRU REVIEW OF DCP CURRENT ACTIVITIES.										
6002	830204	OD	2	830225	TES	PRR/CI	TES	RDF		IDVP PHASE II INITIAL SAMPLE-RUPTURE RESTRAINTS
COMMENT: LETTER DCVP-TES-748 DESCRIBES A PROGRAM FOR REANALYSIS BY DCP OF A SAMPLE OF RUPTURE RESTRAINTS LARGER THAN SAMPLE BY IDVP. THIS FILE COMBINES W/1098 AS ER/AB. IDVP WILL PREPARE A PROGRAM SIMILAR TO ITR-8, REV. 0 FOR VERIFICATION OF PH II RUPTURE RESTRAINTS THRU REVIEW OF DCP CURRENT ACTIVITIES.										
6002	830204	OD	3	830225	TES	CR	NONE	RDF	NO	IDVP PHASE II INITIAL SAMPLE-RUPTURE RESTRAINTS
COMMENT: LETTER DCVP-TES-748 DESCRIBES A PROGRAM FOR REANALYSIS BY DCP OF A SAMPLE OF RUPTURE RESTRAINTS LARGER THAN SAMPLE BY IDVP. THIS FILE COMBINES W/1098 AS ER/AB. IDVP WILL PREPARE A PROGRAM SIMILAR TO ITR-8, REV. 0 FOR VERIFICATION OF PH II RUPTURE RESTRAINTS THRU REVIEW OF DCP CURRENT ACTIVITIES. CLOSED ITEM.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7001	821011	QAR	0	821011	RFR	OIR	RFR	MAR		AUX AND FH BUILDING HVAC SYSTEM
COMMENT: AS FAR AS COULD BE DETERMINED, THERE IS NO EVIDENCE OF AN INDEPENDENT REVIEW OF AUX AND FH BUILDING HVAC PRESSURE LOSS CALC PERFORMED BY GEZ. THIS ITEM IS OUTSIDE CURRENT SWEC SAMPLE FOR IDVP PHASE 2.										
7001	821011	QAR	1	830202	TES	PRR/CI	TES	MAR		AUX AND FH BUILDING HVAC SYSTEM
COMMENT: BASED UPON ADDITIONAL INFORMATION PROVIDED BY PG&E (DCVP-TES-647) ON 821215 AND REVIEWED BY SWEC, THE CONCERN ADDRESSED BY THIS FILE HAS BEEN RESOLVED. FILE TO BE CLOSED.										
7001	821011	QAR	2	830202	TES	CR	NONE	MAR	NO	AUX AND FH BUILDING HVAC SYSTEM
COMMENT: AS FAR AS COULD BE DETERMINED, THERE IS NO EVIDENCE OF AN INDEPENDENT REVIEW OF AUX. AND FH BLDG HVAC PRESSURE LOSS CALC PERFORMED BY GEZ. THIS ITEM IS OUTSIDE CURRENT SWEC SAMPLE FOR IDVP PH. II. BASED UPON ADD. INFO PROVIDED BY PG&E (DCVP-TES-647) ON 821215 & REVIEWED BY SWEC, THE CONCERN ADDRESSED BY THIS FILE HAS BEEN SATISFACTORILY RESOLVED. FILE CLOSED.										
7002	821011	QAR	0	821011	RFR	OIR	RFR	MAR		CONTAINMENT JET IMPINGEMENT
COMMENT: NO OBJECTIVE EVIDENCE FOUND THAT THE EFFECTS OF JET IMPINGEMENT ON COMPONENTS INSIDE CONT. WERE CONSIDERED. FSAR, SECT. 3.6 STATES THAT THIS WAS ACCOMPLISHED. PG&E COULD NOT PROVIDE EVIDENCE OF ANALYSIS. JET IMPINGEMENT INSIDE CONT. MAY NOT BE IN CURRENT IDVP SCOPE. ADDITIONAL VERIFICATION REQUIRED.										
7002	821011	QAR	1	821011	RFR	PPRR/OIP	TES	MAR		CONTAINMENT JET IMPINGEMENT
COMMENT: PG&E TO PROVIDE SWEC W/OBJECTIVE EVIDENCE AND/OR RESPONSE RELATIVE TO ANALYSES FOR EFFECTS OF JET IMPINGEMENT ON COMPONENTS INSIDE CONTAINMENT PER PARA.3.6 OF FSAR.										
7002	821011	QAR	2	821022	TES	PRR/OIP	PG&E	MAR		CONTAINMENT JET IMPINGEMENT
COMMENT: PG&E TO PROVIDE CALCULATIONS AND OTHER SUPPORTING DOCUMENTATION OF JET IMPINGEMENT ANALYSIS PERFORMED INSIDE CONTAINMENT AS STIPULATED IN FSAR SECT. 3.6, PARAGRAPH 3.6. ADDITIONAL VERIFICATION REQUIRED.										
7002	821011	QAR	3	830204	TES	OIR	TES	MAR		CONTAINMENT JET IMPINGEMENT
COMMENT: JET IMPINGEMENT INSIDE CONTAINMENT IS BEING ANALYZED BY DCP AND WILL BE SUBJECT TO IDVP VERIFICATION AS PART OF ADDITIONAL VERIFICATION PROGRAM. THIS FILE WILL BE RECLASSIFIED AS A CLASS A/B ERROR SO THAT IT CAN BE ADDRESSED AS PART OF THE ADDITIONAL VERIFICATION EFFORT.										
7002	821011	QAR	4	830204	TES	ER/AB	PG&E	MAR		CONTAINMENT JET IMPINGEMENT
COMMENT: RFR AUDIT OF PG&E SHOWED NO DOCUMENTED EVIDENCE RE. JET IMPINGEMENT INSIDE CONTAINMENT. FSAR SECT. 3.6 PAR. 3.6 STATES THIS WAS DONE. NECESSARY ANALYSIS BEING DONE BY DCP WILL BE REVIEWED BY IDVP. FILE EFFORTS DESCRIBED IN ITR-34.										
7002	0		5	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7002	0		6	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7002	0		7	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7002	0		8	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7002	0		9	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7002	0		10	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
7003	821123	QAR	0	821123	RFR	OIR	RFR	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: JUSTIFICATION THAT EDS CONCURS WITH THE PG&E RESOLUTION OF THE OPEN ITEMS ON THE EDS DESIGN REVIEW OF THE CONTAINMENT ISOLATION SYSTEM WAS NOT AVAILABLE.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
7003	821123	QAR	1	821123	RFR	PPRR/OIP	TES	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: PG&E TO PROVIDE OBJECTIVE EVIDENCE AND/OR RESPONSE RELATIVE TO AN INDEPENDENT REVIEW OF CONTAINMENT ISOLATION SYSTEM PUNCHLIST ITEMS RESOLVED DIFFERENTLY THAN AGREED UPON WITH EDS AND A DETERMINATION THAT CONTAINMENT ISOLATION SYSTEM MEETS ESTABLISHED DESIGN CRITERIA.										
7003	821123	QAR	2	821209	TES	PRR/OIP	PG&E	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: PG&E TO PROVIDE OBJECTIVE EVIDENCE THAT THE CONTAINMENT ISOLATION SYSTEM MEETS ITS ESTABLISHED DESIGN CRITERIA. SWEC TO PERFORM A TECHNICAL REVIEW OF THE OBJECTIVE EVIDENCE.										
7003	821123	QAR	3	830304	TES	OIR	RFR	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: BASED UPON THE IDVP REVIEW (830302) OF THE DCP COMPLETION SHEET, SIGNED 830207, AND AGREED THAT TES WOULD RE-OPEN THE FILE, RFR WOULD SUBMIT A PPRR/CI TO TES, AND THAT TES WOULD ISSUE A COMPLETION REPORT.										
7003	821123	QAR	4	830309	RFR	PPRR/CI	TES	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: ATTACH. TO DCVP-RFR-141 DEMONSTRATE THAT CONT. ISOLATION SYS. DESIGN REVIEW PUNCHLIST ITEM RESOLUTIONS DOCUMENTED TO SHOW APPROVAL BY SUPERVISOR OF DESIGN ACTIVITY ACCORDING W/EST. PROCEDURES AND DESIGN CONTROL PRACTICES OF SECT. 5.7 OF IDVP PLAN.										
7003	821123	QAR	5	830309	TES	PRR/CI	TES	MAR		DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: DCP COMPLETION SHEET, SIGNED 830219, RESOLVES THE CONCERN. OBJECTIVE EVIDENCE IS AVAILABLE, SHOWING THAT THE CONTAINMENT ISOLATION SYSTEM MEETS ITS ESTABLISHED DESIGN CRITERIA.										
7003	821123	QAR	6	830309	TES	CR	NONE	MAR	NO	DESIGN REVIEW OF CONTAINMENT ISOLATION
COMMENT: DCP COMPLETION SHEET, SIGNED 830219, RESOLVES THE CONCERN. OBJECTIVE EVIDENCE IS AVAILABLE, SHOWING THAT THE CONTAINMENT ISOLATION SYSTEM MEETS ITS ESTABLISHED DESIGN CRITERIA. NO ADDITIONAL VERIFICATION OR SAMPLING REQUIRED. CLOSED ITEM.										
7004	821129	QAR	0	821129	RFR	OIR	RFR	MAR		PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: ASSUMPTIONS MADE IN QUADREX REPORT, PGE-01-27 REV.1, WHICH DEALS WITH THE EFFECTS OF PIPE BREAK OUTSIDE CONTAINMENT, MAY NOT HAVE BEEN UPDATED TO REFLECT AS-BUILT CONDITION.										
7004	821129	QAR	1	821129	RFR	PPRR/OIP	TES	MAR		PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: PLANT DESIGN CHANGES SINCE ISSUANCE OF QUADREX REPORT, PGE-01-27 REV.1, NEED TO BE VERIFIED CONCERNING THEIR EFFECT ON THE VALIDITY OF THE REPORT.										
7004	821129	QAR	2	821210	TES	PRR/OIP	PG&E	MAR		PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: PG&E TO PROVIDE OBJECTIVE EVIDENCE THAT DESIGN CHANGES SINCE ISSUANCE OF QUADREX REPORT, PGE-01-27 REV.1, HAVE/HAVE NOT AFFECTED THE VALIDITY OF THE REPORT.										
7004	821129	QAR	3	830204	TES	OIR	TES	MAR		PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: AS A RESULT OF EOI 8001 AND DCP EFFORTS TO REANALYZE ENVIRONMENTS OUTSIDE CONTAINMENT, PG&E'S APPROACH TO PENETRATIONS WILL BE ADDRESSED BY SWEC'S REVIEW OF NEW ANALYSIS.										
7004	821129	QAR	4	830204	TES	PRR/CI	TES	MAR		PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: AS A RESULT OF EOI 8001 AND DCP'S COMMITMENT TO REANALYZE THE ENVIRONMENTS OUTSIDE CONTAINMENT, THE ASPECT OF PG&E'S APPROACH TO PENETRATIONS WILL BE ADDRESSED BY SWEC'S REVIEW OF THE NEW ANALYSIS. FILE TO BE CLOSED BASED UPON ADDITIONAL VERIFICATION WORK TO BE DONE ON EOI 8001.										
7004	821129	QAR	5	830204	TES	CR	NONE	MAR	NO	PIPE BREAK OUTSIDE CONTAINMENT
COMMENT: RFR AUDIT OF PG&E/QUADREX COULDN'T DOCUMENT EVIDENCE OF ASSUMPTIONS IN PGE-01-027, R. 1 WERE STILL VALID IN VIEW OF PLANT DESIGN CHANGE SINCE 1974. AS A RESULT OF EOI 8001, AND DCP EFFORTS TO REANALYZE ENVIRONMENTS OUTSIDE CONTAINMENT ASPECT OF PG&E'S APPROACH TO PENETRATIONS WILL BE ADDRESSED BY SWEC'S REVIEW OF NEW ANALYSIS. CLOSED ITEM.										
7005	821129	QAR	0	821129	RFR	OIR	RFR	MAR		ENVIRONMENTAL QUAL. OF EQUIPMENT
COMMENT: DESIGN CHANGES, MADE AFTER 1974 (SEE 7004), MAY HAVE RESULTED IN PLACING EQUIPMENT IN COMPARTMENTS WHERE THE EFFECTS OF HELB WERE NOT CONSIDERED BUT COULD EXIST.										
7005	821129	QAR	1	821129	RFR	PPRR/OIP	TES	MAR		ENVIRONMENTAL QUAL. OF EQUIPMENT
COMMENT: THE EFFECT OF DESIGN CHANGES SINCE 1974 AS APPLIED TO THE ENVIRONMENT QUALIFICATION OF SAFETY RELATED EQUIPMENT NEEDS TO BE INVESTIGATED.										
7005	821129	QAR	2	821210	TES	PRR/OIP	PG&E	MAR		ENVIRONMENTAL QUAL. OF EQUIPMENT
COMMENT: PG&E TO PROVIDE OBJECTIVE EVIDENCE THAT DESIGN CHANGES SINCE 1974 HAVE/HAVE NOT AFFECTED THE ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED EQUIPMENT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7005	821129	QAR	3	830204	TES	OIR	TES	MAR		ENVIRONMENTAL QUAL. OF EQUIPMENT

COMMENT: AS A RESULT OF ADDITIONAL DOCUMENTATION (QUADREX LETTER TO DCP, RR-82-108, OF 820909) PROVIDED BY DCP AND ALSO OF DCP'S COMMITMENT TO REANALYZE ENVIRONMENTS OUTSIDE CONTAINMENT IN RESPONSE TO EOI 8001, APPLICATION OF ENVIRONMENTAL ANALYSIS TO COMPARTMENTS WILL BE ADDRESSED BY SWEC'S REVIEW OF NEW ANALYSIS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7005	821129	QAR	4	830204	TES	PRR/CI	TES	MAR		ENVIRONMENTAL QUAL. OF EQUIPMENT

COMMENT: AS A RESULT OF ADD. DOCUMENTATION (QUADREX LTR. TO DCP, RR-82-108, OF 820909) PROVIDED BY DCP & ALSO OF DCP'S COMMITMENT TO REANALYZE ENVIR. OUTSIDE CONTAINMENT IN RESPONSE TO EOI 8001, APPLICATION OF ENVIR. ANALYSIS TO COMPARTMENTS WILL BE ADDRESSED BY SWEC'S REVIEW OF NEW ANALYSIS. FILE CLOSED BASED ON ADD. DOC. & UPON ADD. VER. WORK TO BE DONE ON EOI 8001.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7005	821129	QAR	5	830204	TES	CR	NONE	MAR	NO	ENVIRONMENTAL QUAL. OF EQUIPMENT

COMMENT: AS A RESULT OF ADD. DOCUMENTATION (QUADREX LTR. TO DCP, RR-82-108, OF 820909) PROVIDED BY DCP & ALSO OF DCP'S COMMITMENT TO REANALYZE ENVIR. OUTSIDE CONTAINMENT IN RESP. TO EOI 8001, APPLIC. OF ENVIR. ANAL. TO COMPARTMENTS WILL BE ADDRESSED BY SWEC'S REVIEW OF NEW ANALYSIS. CLOSED BASED ON ADD. DOC. & UPON ADD. VER. WORK TO BE DONE ON EOI 8001.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7006	821129	QAR	0	821129	RFR	OIR	RFR	MAR		REVISED RADIATION DOSE CALCS

COMMENT: RADIATION DOSAGE CALCS. PERFORMED BY RRA AND USED FOR THE ENVIRONMENTAL QUALIFICATION OF SAFETY-RELATED EQUIPMENT HAVE BEEN REVISED. THESE CALCS. SHOULD BE SAMPLED FOR METHODOLOGY AND CORRECTNESS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7006	821129	QAR	1	830202	TES	PRR/CI	TES	MAR		REVISED RADIATION DOSE CALCS

COMMENT: AS PART OF THE INITIAL SAMPLE, SWEC EVALUATED THE METHODOLOGY USED BY RRA IN PERFORMING RADIATION DOSAGE CALC & FOUND IT ACCEPTABLE. SINCE THIS METHODOLOGY IS THE SAME AS WHAT IS BEING USED IN THE REVISED CALC, THE ONLY REMAINING CONCERN WAS ONE OF RRA'S DESIGN INPUT CONTROLS.RFR HAD DETERMINED THIS TO BE SATISFACTORILY IMPLEMENTED DURING THE AUDIT.CLOSED ITEM

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
7006	821129	QAR	2	830202	TES	CR	NONE	MAR	NO	REVISED RADIATION DOSE CALCS

COMMENT: RADIATION DOSAGE CALCS PERFORMED BY RRA & USED FOR ENVIRONMENTAL QUALIFICATION OF SAFETY RELATED EQUIP HAVE BEEN REVISED CALCS SHOULD BE SAMPLED FOR METHODOLOGY & CORRECTNESS. SWEC EVALUATED METHODOLOGY & FOUND IT ACCEPTABLE. RFR HAS DETERMINED RRA'S DESIGN INPUT CONTROLS TO BE SATISFACTORY. CLOSED ITEM.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8001	820909	DMD	0	820909	SWEC	OIR	SWEC	LCN		EVALUATION OF ENVIRONMENT IN COMPARTMENT GW
COMMENT: COMPARISON OF COMPUTER CODES (CONTEMPT VS THREED) FOR MODELING THE EFFECTS OF PIPE BREAKS OUTSIDE CONTAINMENT RESULTS IN GREATER THAN 100 DEGREES F. TEMPERATURE DIFFERENCE.										
8001	820909	DMD	1	820909	SWEC	PER/AB	TES	LCN		EVALUATION OF ENVIRONMENT IN COMPARTMENT GW
COMMENT: SAFETY RELATED EQUIPMENT OUTSIDE CONTAINMENT WHICH MUST FUNCTION IN A SEVERE ENVIRONMENT EXPERIENCES TEMPERATURE ENVIRONMENTS ON THE ORDER OF 100 DEGREE F. GREATER THAN REPORTED. PG&E TO REANALYZE USING APPROPRIATE COMPUTER CODE AND RESULTS TO BE REVIEWED BY IDVP.										
8001	820909	DMD	2	821004	TES	ER/AB	PG&E	LCN		EVALUATION OF ENVIRONMENT IN COMPARTMENT GW
COMMENT: INAPPROPRIATE APPLICATION OF CONTEMPT COMPUTER CODE BY WSC FOR CALC. OF ENVIRONMENTS. OUTSIDE CONTAINMENT FOR EQUIPMENT QUALIFICATION IN AREA GW RESULTS IN TOO LOW AN EQUIL. TEMP. PG&E TO REANALYZE USING APPROPRIATE COMPUTER CODE AND RESULTS TO BE REVIEWED BY IDVP.										
8001	820909	DMD	3	830225	TES	ER/AB	PG&E	LCN		REEVALUATION OF ENVIRONMENT OUTSIDE CONTAINMENT
COMMENT: DCP REEVALUATING ENVIRONMENT RESULTING FROM POSTULATED PIPE BREAKS OUTSIDE CONTAINMENT. WORK TO BE VERIFIED BY IDVP IN ACCORDANCE WITH ITR-34. FILE REVISION ISSUED TO PROVIDE GENERIC TITLE AND TO COMBINE FILES 7004, 7005, 8003, 8006, 8033, AND 8034 WITH 8001. CONCERNS OF THESE FILES TRACKED WITH 8001.										
8001	820909	DMD	4	830527	TES	OIR	SWEC	LCN		REEVALUATION OF ENVIRONMENT OUTSIDE CONTAINMENT
COMMENT: TES REQUESTS SWEC TO EVALUATE THE CONTENTS OF DCP COMPLETION SHEET, DATED 830507 AND IDENTIFY IF THE RESOLUTION ADEQUATELY ADDRESSES EOI FILES 7004, 7005, 8003, 8006, 8033, AND 8034.										
8001	820909	DMD	5	830531	SWEC	PPRR/CI	TES	LCN	NO	REEVALUATION OF ENVIRONMENT OUTSIDE CONTAINMENT
COMMENT: PG&E HAS PERFORMED COMPLETE REANALYSIS OF PIPE RUPTURES OUTSIDE CONTAINMENT USING A BECHTEL COMPUTER PROGRAM CALLED FLUD. ORIGINAL CONCERN WAS OF INAPPROPRIATE USE OF CONTEMPT AND OTHER ANALYTICAL ERRORS BY WSC. PG&E TO INCORPORATE NEW PRESSURE AND TEMP RESULTS INTO THE PLANT DESIGN.										
8001	820909	DMD	6	830602	TES	PRR/CI	TES	LCN		REEVALUATION OF ENVIRONMENT OUTSIDE CONTAINMENT
COMMENT: BASED ON DOCUMENTS PROVIDED BY PG&E WHICH SUMMARIZE THE REANALYSIS DONE BY PG&E FOR THE EVALUATION OF ENVIRONMENTAL PARAMETERS AS A CONSEQUENCE OF A PIPE RUPTURE OUTSIDE CONTAINMENT, THE IDVP CONCLUDES THE CONCERN HAS BEEN PROPERLY ADDRESSED.										
8001	820909	DMD	7	830602	TES	CR	NONE	LCN	NO	REEVALUATION OF ENVIRONMENT OUTSIDE CONTAINMENT
COMMENT: INAPPROPRIATE APPLICATION OF CONTEMPT COMPUTER CODE BY WSC FOR CALC OF ENVIRONMENTS OUTSIDE CONTAINMENT. INCLUSES FILES 7004, 7005, 8003, 8006, 8033, 8034. DOCUMENTS PROVIDED BY PG&E SUMMARIZE THE REANALYSIS DONE BY PG&E FOR EVALUATION OF ENVIRONMENTAL PARAMETERS AS RESULT OF PIPE RUPTURE. CLOSED ITEM. WAS PREVIOUSLY AN ER/AB.										
8002	820909	ICD	0	820909	SWEC	OIR	SWEC	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: NON-CONSERVATIVE METHOD UTILIZED FOR CALCULATION ENVIROMENTAL PARAMETERS OUTSIDE CONTAINMENT DUE TO MAIN STEAM BREAK RESULTS IN LOW TEMPERATURE. THE CALCULATED MASS AND ENERGY DATA INCLUDES THE EFFECTS OF ENTRAINMENT, IN THAT CASE ADDITIONAL BREAK SIZES SHOULD BE CONSIDERED.										
8002	820909	ICD	1	821001	SWEC	PER/AB	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: NON-CONSERVATIVE METHOD UTILIZED FOR CALCULATION ENVIROMENTAL PARAMETERS OUTSIDE CONTAINMENT DUE TO MAIN STEAM BREAK RESULTS IN LOW TEMPERATURE. THE CALCULATED MASS AND ENERGY DATA INCLUDES THE EFFECTS OF ENTRAINMENT, IN THAT CASE ADDITIONAL BREAK SIZES SHOULD BE CONSIDERED.										
8002	820909	ICD	2	821018	TES	ER/AB	PG&E	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: NON-CONSERVATIVE METHOD UTILIZED FOR CALCULATION ENVIROMENTAL PARAMETERS OUTSIDE CONTAINMENT DUE TO MAIN STEAM BREAK RESULTS IN LOW TEMPERATURE. THE CALCULATED MASS AND ENERGY DATA INCLUDES THE EFFECTS OF ENTRAINMENT, IN THAT CASE ADDITIONAL BREAK SIZES SHOULD BE CONSIDERED.										
8002	820909	ICD	3	821029	TES	OIR	SWEC	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: SWEC TO CONSIDER THE RESPONSE IN PG&E COMPLETION SHEET DATED 821015.										
8002	820909	ICD	4	821116	SWEC	PER/AB	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: SAFETY-RELATED EQUIPMENT OUTSIDE CONTAINMENT WHICH MUST FUNCTION IN AN ENVIRONMENT AFFECTED BY MAIN STEAM LINE BREAK WILL EXPERIENCE HIGHER TEMPS THAN REPORTED. PG&E TO REANALYZE CONSIDERING CONSERVATIVE MASS/ENERGY RELEASE DATA IN CONJUNCTION W/RECOMMENDATIONS FOR REANALYSIS SPECIFIED IN EOI'S 8001, 8003 AND 8004. REANALYSIS TO BE REVIEWED BY IDVP.										
8002	820909	ICD	5	821119	TES	ER/AB	PG&E	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: SAFETY-RELATED EQUIPMENT OUTSIDE CONTAINMENT WHICH MUST FUNCTION IN AN ENVIRONMENT AFFECTED BY MAIN STEAM LINE BREAK WILL EXPERIENCE HIGHER TEMPS THAN REPORTED. PG&E TO REANALYZE CONSIDERING CONSERVATIVE MASS/ENERGY RELEASE DATA IN CONJUNCTION W/RECOMMENDATIONS FOR REANALYSIS SPECIFIED IN EOI'S 8001, 8003 AND 8004. REANALYSIS TO BE REVIEWED BY IDVP.										
8002	820909	ICD	6	830124	TES	OIR	SWEC	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830115, AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8002	820909	ICD	7	830131	SWEC	PPRR/CI	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: RESPONSE IN DCP COMPLETION SHEET SIGNED 830115 IS ADEQUATE BECAUSE '...APPROPRIATE BREAK SIZES WILL BE CONSIDERED IN THE REANALYSIS BEING PERFORMED IN RESPONSE TO EOI 8001' & THIS REANALYSIS WILL SUPERCEDE THE NSC WORK.										
8002	820909	ICD	8	830210	TES	PRR/CI	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: THE RESPONSE IN DCP COMPLETION SHEET, SIGNED 830115 IS ADEQUATE BECAUSE 'AT THE TIME OF THE ORIGINAL ANALYIS ALL NSC REQUIRED BREAK SIZES WERE CONSIDERED.'										
8002	820909	ICD	9	830210	TES	CR	NONE	LCN	NO	NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: NON-CONSERVATIVE METHOD UTILIZED FOR CALCULATION ENVIROMENTAL PARAMETERS OUTSIDE CONTAINMENT DUE TO MAIN STEAM BREAK RESULTS IN LOW TEMP. THE CALCULATED MASS AND ENERGY DATA INCLUDES THE EFFECTS OF ENTRAINMENT, IN THAT CASE ADDITIONAL BREAK SIZES SHOULD BE CONSIDERED. 'APPROPRIATE BREAK SIZES WILL BE CONSIDERED IN REANALYSIS IN RESPONSE TO 8001'.										
8002	820909	ICD	10	830225	TES	OIR	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: REVS 2 AND 5 CLASSIFIED FILE AS ER/AB. LATER REVIEW INDICATED THAT BREAK SIZES WERE CONSIDERED AND THEREFORE NOT A CONCERN. REVS 8 AND 9 DIDN'T FOLLOW PROPER PROCEDURES FOR DOWNGRADING AND ARE VOIDED. REV 11 WILL BE ISSUED TO INDICATE DOWNGRADING THEN FILE WILL BE CLOSED.										
8002	820909	ICD	11	830225	TES	PRR/OIP	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: THIS ITEM IS DOWNGRADED FROM AN ERROR A/B TO A. CLOSED ITEM. NO DCP ACTION IS REQUIRED.										
8002	820909	ICD	12	830225	TES	PRR/CI	TES	LCN		NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: EOI FILE 8002, REVISIONS 5, 7, AND 11. DCP COMPLETION SHEET SIGNED 830115. THIS FILE IS DOWNGRADED FROM AN ERROR A/B TO A CLOSED ITEM BECAUSE AT THE TIME THE ORIGINAL ANALYSIS WAS PERFORMED ALL NRC REQUIRED BREAK SIZES WERE CONSIDERED.										
8002	820909	ICD	13	830225	TES	CR	NONE	LCN	NO	NONCONSERVATIVE CALCULATION OF PRESS & TEMP
COMMENT: NON-CONSERV METHOD UTILIZED FOR CALCULATION ENVIR PARAMETERS OUTSIDE CONTAINMENT DUE TO MAIN STEAM BREAK RESULTS IN LOW TEMP. THE CALCULATED MASS & ENERGY DATA INCLUDES THE EFFECTS OF ENTRAINMENT, IN THAT CASE ADDITIONAL BREAK SIZES SHOULD BE CONSIDERED. 'APPROPRIATE BREAK SIZES WILL BE CONSIDERED IN REANALYSIS IN RESPONSE TO 8001'. DOWNGRADED ER/AB TO CI.										
8003	820909	ICD	0	820909	SWEC	OIR	SWEC	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: NON-CONSERVATIVE VALUE OF BLOWDOWN ENTHALPY FOR CALCULATING EFFECTS OF MAIN STEAM LINE BREAK RESULTS IN A LOW TEMPERATURE. VALUES USED ARE UNDOCUMENTED.										
8003	820909	ICD	1	821001	SWEC	PER/AB	TES	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: NON-CONSERVATIVE VALUE OF BLOWDOWN ENTHALPY FOR CALCULATING EFFECTS OF MAIN STEAM LINE BREAK RESULTS IN A LOW TEMPERATURE. VALUES USED ARE UNDOCUMENTED.										
8003	820909	ICD	2	821018	TES	ER/AB	PG&E	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: SAFETY-RELATED EQUIPMENT INSIDE TURBINE BLDG WHICH MUST FUNCTION IN SEVERE ENVIRONMENT WILL BE EXPOSED TO A MORE SEVERE TEMP ENVIRONMENT THAN REPORTED. REANALYSIS BY PG&E USING CONSERVATIVE ENTHALPY. SHOULD USE CONSERVATIVE VALUES OF BLOWDOWN ENTHALPY.										
8003	820909	ICD	3	821029	TES	OIR	SWEC	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: SWEC TO CONSIDER THE RESPONSE IN PG&E COMPLETION SHEET DATED 821015.										
8003	820909	ICD	4	821116	SWEC	PER/AB	TES	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: SAFETY-RELATED EQUIPMENT INSIDE TURBINE BUILDING AFFECTED BY MAIN STEAM LINE BREAK WILL BE EXPOSED TO A HIGHER TEMP ENVIRONMENT THAN REPORTED. PG&E TO REANALYZE USING HIGHER VALUE OF BLOWDOWN ENTHALPY.										
8003	820909	ICD	5	821118	TES	ER/AB	PG&E	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: SAFETY-RELATED EQUIP. INSIDE TURBINE BLDG MAY BE EXPOSED TO A HIGHER TEMP. ENVIRONMENT THAN REPORTED. PG&E TO REANALYZE USING HIGHER VALUE OF BLOWDOWN ENTHALPY.										
8003	820909	ICD	6	830210	TES	OIR	SWEC	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: SWEC TO REVIEW THE DCP COMPLETION SHEET, SIGNED 830121 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8003	820909	ICD	7	830217	SWEC	PER/C	TES	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: ENTHALPY VALUE OF LONG TERM BLOWDOWN FROM MAIN STEAM LINE BREAK IN T. BLDG USED BY NSC WAS TOO LOW. RESPONSE IN DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS INCLUDES APPROPRIATELY CHOSEN ENTHALPY VALUES. CONCERN TO BE ADDRESSED IN 8001. DOWNGRADED FROM ER/AB TO C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8003	820909	ICD	8	830222	TES	ER/C	PG&E	LCN		EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: ENTHALPY VALUE OF LONG TERM BLOWDOWN FROM MAIN STEAM LINE BREAK IN T. BLDG USED BY NSC WAS TOO LOW. RESPONSE IN DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS INCLUDES APPROPRIATELY CHOSEN ENTHALPY VALUES. CONCERN TO BE ADDRESSED IN 8001. DOWNGRADED FROM ER/AB TO C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										
8003	820909	ICD	9	830222	TES	CR	NONE	LCN	NO	EVALUATION OF ENVIRONMENT IN TURBINE BUILDING
COMMENT: ENTHALPY VALUE OF LONG TERM BLOWDOWN FROM MAIN STEAM LINE BREAK IN T. BLDG USED BY NSC WAS TOO LOW. RESPONSE IN DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS INCLUDES APPROPRIATELY CHOSEN ENTHALPY VALUES. CONCERN TO BE ADDRESSED IN 8001. DOWNGRADED FROM ER/AB TO C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										
8004	820909	ICD	0	820909	SWEC	OIR	SWEC	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: INITIAL TEMPERATURE UTILIZED IN CALCULATON OF OUTSIDE CONTAINMENT ENVIRONMENT WAS 70 DEGREES F INSTEAD OF THE MAXIMUM TEMPERATURES SPECIFIED IN CHAPTER 9 OF FSAR.										
8004	820909	ICD	1	821001	SWEC	PER/AB	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: NON-CONSERVATIVE INITIAL TEMPS USED BY NSC FOR CALC. OF ENVIR OUTSIDE CONTAINMENT FOR EQUIP QUALIF. SAFETY-RELATED EQUIP OUTSIDE CONTAINMENT WHICH MUST FUNCTION IN SEVERE ENVIR EXPERIENCES MORE SEVERE TEMP. ENVIR THAN REPORTED, INITIAL TEMP UTILIZED IN CALC OF OUTSIDE CONTAINMENT ENVIR WAS 70 F INSTEAD OF THE MAX TEMP SPECIFIED IN CHAPTER 9 OF FSAR.										
8004	820909	ICD	2	821018	TES	ER/AB	PG&E	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: NONCONSERVATIVE INITIAL TEMPS. USED BY NSC FOR CALC. OF ENVIRONMENTS OUTSIDE CONT. FOR EQUIP. QUALIFICATION. SAFETY-RELATED EQUIP. OUTSIDE CONT. WHICH MUST FUNCTION IN SEVERE ENVIRONMENTS EXPERIENCES MORE SEVERE TEMPS. THAN REPORTED. REANAYSIS BY PG&E USING CONSERVATIVE INITIAL TEMPS.										
8004	820909	DMD	3	821029	TES	OIR	SWEC	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: SWEC TO CONSIDER THE RESPONSE IN PG&E COMPLETION SHEET DATED 821015.										
8004	820909	ICD	4	821116	SWEC	PER/AB	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: SAFETY-RELATED EQUIPMENT OUTSIDE CONTAINMENT WILL EXPERIENCE A HIGHER TEMP ENVIRONMENT THAN REPORTED. PG&E TO REANALYZE USING HIGHER INITIAL TEMPS.										
8004	820909	ICD	5	821119	TES	ER/AB	PG&E	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: SAFETY-RELATED EQUIP. OUTSIDE CONTAINMENT WILL EXPERIENCE HIGHER TEMP. ENVIRONMENT THAN REPORTED. PG&E TO REANALYZE USING HIGHER INITIAL TEMPS.										
8004	820909	ICD	6	830124	TES	OIR	SWEC	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830115, AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8004	820909	ICD	7	830131	SWEC	PPRR/CI	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: RESPONSE IN DCP COMPLETION SHEET SIGNED 830115 IS ADEQUATE BECAUSE '...THE ENTIRE NSC ANALYSIS WILL BE SUPERSEDED. THE RESUBMITTAL OF THESE SECTIONS ADDRESS THE CONCERN OF EDI 8004.										
8004	820909	ICD	8	830210	TES	PRR/CI	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: RESPONSE TO DCP COMP SHT DATED 830115 IS ADEQUATE BECAUSE '...INITIAL COMPARTMENT PRESSURE, TEMP, AND RELATIVE HUMIDITY VALUES ASSUMED IN ANALYSIS ARE 14.7 PSIA, 70 F AND 60% RESPECTIVELY. THIS DEFINES DCNPP-1 LICENSING REQUIREMENTS FOR SPECIFIC COMBINATIONS OF PIPE BREAKS AND INITIAL CONDITIONS.										
8004	820909	ICD	9	830210	TES	CR	NONE	LCN	NO	EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: INITIAL TEMP UTILIZED IN CALC OUTSIDE CONT. WAS 70 DEGREES F INSTEAD OF MAX TEMP SPECIFIED IN CH. 9 OF FSAR.DCP RESPONSE ADEQUATE BECAUSE PRESSURE, TEMP, AND REL. HUMIDITY DEFINES DCNPP-1 LICENSING REQ. FOR SPECIFIC COMB. OF PIPE BREAKS AND INITIAL CONDITIONS. CLOSED ITEM.										
8004	820909	ICD	10	830225	TES	OIR	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: REVS 2 & 5 CLASSIFIED THIS AS ER/AB. THIS ASPECT NOT A CONCERN BECAUSE VALUE USED CONSISTENT W/ONE PART OF LICENSING DOCUMENTS AND SUBJECT ANALYSIS SUBJECT TO REVIEW BASED ON 8001. REVS 8 & 9 DON'T FOLLOW PROPER ADMINISTRATIVE PROCEDURES AND ARE VOIDED. REV 11 TO INDICATE DOWNGRADING.										
8004	820909	ICD	11	830225	TES	PRR/OIP	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: EDI FILE 8004 REVS 5 & 7. DCP COMPLETION SHEET DATED 830115. THIS ITEM IS DOWNGRADED FROM AN ER/AB TO A CLOSED ITEM. NO DCP ACTION IS REQUIRED.										
8004	820909	ICD	12	830225	TES	PRR/CI	TES	LCN		EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW
COMMENT: FILE REVS 5, 7, & 11. DCP COMP. SHT. SIGNED 830131. FILE DOWNGRADED FROM ER/AB BECAUSE INITIAL COMPARMENT PRESSURE,TEMP, AND REL. HUMIDITY VALUES ASSUMED IN ANALYSIS ARE 14.7 PSIA, 70F, & 60%, THIS BEING LICENSING REQ. FOR SPECIFIC COMBINATION OF PIPE BREAKS AND INITIAL CONDITIONS.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8004	820909	ICD	13	830225	TES	CR	NONE	LCN	NO	EVALUATION OF ASSUMED INITIAL TEMP. IN GE/GW

COMMENT: INITIAL TEMP UTILIZED IN CALC OF OUTSIDE CONTAIN ENVIR WAS 70 F INSTEAD OF THE MAX TEMP SPEC IN CHAPT 9 OF FSAR.REV 5,7, 11.DCP COMP SHT(830131).FILE DOWNGRADED FROM ER/AB BECAUSE INITIAL COMPARTMENT PRESS,TEMP,REL HUMIDITY VALUES ASSUMED IN ANAL ARE 14.7 PSIA,70F,& 60%,THIS BEING LICENSING REQ FOR SPECIFIC COMB OF PIPE BREAKS & INITIAL CONDITIONS. CLOSED ITEM

8005	820909	DMD	0	820909	SWEC	OIR	SWEC	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: NON-CONSERVATIVE ASSUMPTIONS MADE OF WATER SOURCES AND INVENTORIES FOR CALCULATION OF MAXIMUM FLOOD LEVEL. MAXIMUM AVAILABLE WATER INVENTORY WAS NOT CONSIDERED.

8005	820909	DMD	1	821001	SWEC	PPRR/OIP	TES	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: NON CONSERVATIVE ASSUMPTIONS MADE OF WATER INVENTORIES FOR CALCULATION OF FLOOD LEVEL SHOULD ALSO INCLUDE THE TOTAL MASS RELEASED FROM STEAM GENERATOR AND AUXILIARY FEEDWATER FLOW FROM RUPTURED PIPE.

8005	820909	DMD	2	821022	SWEC	PPRR/OIP	TES	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: PG&E TO INFORM IDVP OF ANY SAFETY RELATED COMPONENT AFFECTED BY INCREASE IN FLOOD HEIGHT AND DOCUMENT THE RESULTS FOR REVIEW. RESPONSE REQUESTED BY 821029.

8005	820909	DMD	3	821028	TES	PRR/OIP	PG&E	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: INFORM IDVP OF ANY SAFETY RELATED COMPONENT AFFECTED BY INCREASE IN FLOOD HEIGHTS. RESPONSE REQUESTED BY 821029. A REANALYSIS USING CONSERVATIVE ASSUMPTIONS WILL BE SUBJECT OF A SEPARATE ERROR REPORT TO BE ISSUED LATER.

8005	820909	DMD	4	821029	TES	OIR	SWEC	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: SWEC TO CONSIDER THE RESPONSE IN PG&E COMPLETION SHEET DATED 821015.

8005	820909	DMD	5	821116	SWEC	PPRR/OIP	TES	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: RE: PG&E'S RESPONSE TO 8005,R,1,821015. FLOOD HEIGHTS CALCULATED IN AREAS GE AND GW DUE TO FEEDWATER LINE BREAK DIDN'T CONSIDER MAX AVAILABLE WATER INVENTORY. PG&E TO INFORM IDVP OF ANY SAFETY-RELATED COMPONENTS AFFECTED BY ADDITIONAL WATER INVENTORY.

8005	820909	DMD	6	821118	TES	PRR/OIP	PG&E	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: PG&E TO INFORM IDVP OF ANY SAFETY-RELATED COMPONENTS AFFECTED BY THE ADDITIONAL WATER INVENTORY DUE TO A FEEDWATER LINE BREAK IN AREAS GE AND GW.

8005	820909	DMD	7	830131	TES	OIR	SWEC	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: THE FLOOD HEIGHTS CALC IN AREAS CONTAINING SAFETY-RELATED EQUIP OUTSIDE CONTAINMENT MAY BE TOO LOW BECAUSE THE MAXIMUM AVAILABLE WATER INVENTORY FOR POSTULATED FEEDWATER LINE RUPTURE WAS NOT CONSIDERED. SAFETY-RELATED EQUIP MAY BE SUBMERGED. SWEC TO REVIEW THE PG&E COMP. SHT. SIGNED 830124 & PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

8005	820909	DMD	8	830210	SWEC	PPRR/CI	TES	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: RESPONSE BY DCP COMPLETION SHEET SIGNED 830124 IS ADEQUATE TO ADDRESS THE CONCERNS IDENTIFIED IN THIS EOI ON THE BASIS THAT CONSERVATISMS EXIST IN ORIGINAL ANALYSIS WHICH RESULT IN WATER RELEASE VOLUMES AND FLOODING HEIGHTS THAT ARE CONSERVATIVE.

8005	820909	DMD	9	830210	TES	PRR/CI	TES	LCN		EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: RESPONSE BY DCP COMPLETION SHEET SIGNED 830124 IS ADEQUATE TO ADDRESS CONCERNS IDENTIFIED IN THIS EOI ON BASIS THAT CONSERVATISMS EXISTS IN ORIGINAL ANALYSIS WHICH RESULT IN WATER RELEASE VOLUMES AND FLOODING HEIGHTS THAT ARE CONSERVATIVE.

8005	820909	DMD	10	830210	TES	CR	NONE	LCN	NO	EVALUATION OF EFFECT OF WATER INVENTORY IN GW

COMMENT: NON-CONSERVATIVE ASSUMPTION MADE OF WATER SOURCES AND INVENTORIES FOR CALC OF MAX FLOOD LEVEL. DCP COMP SHT ADEQUATELY ADDRESSES CONCERNS THAT CONSERVATISMS EXISTS IN ORIGINAL ANALYSIS WHICH RESULT IN WATER RELEASE VOL. AND FLOOD HEIGHTS THAT ARE CONSERVATIVE. CLOSED ITEM.

8006	820909	OD	0	820909	SWEC	OIR	SWEC	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT

COMMENT: SWEC CANNOT PERFORM REMAINING REVIEW OF WORK ASSOCIATED WITH PRESSURE/TEMPERATURE ENVIRONMENTS AND EFFECTS IN THE TURBINE BUILDING DUE TO DELINQUENT INFORMATION FROM PG&E.

8006	820909	OD	1	821001	SWEC	PPRR/OIP	TES	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT

COMMENT: SWEC CANNOT PERFORM REMAINING REVIEW WORK OF ASSOCIATED WITH PRESSURE/TEMPERATURE ENVIRONMENTS AND EFFECTS IN THE TURBINE BUILDING DUE TO DELINQUENT INFORMATION FROM PG&E. PG&E TO PERFORM REANALYSIS IN CONJUCTION WITH RECOMMENDATIONS FOR ERROR REPORT 8001 OR PROVIDE ORIGINAL DOCUMENTATION.

8006	820909	OD	2	821018	TES	PRR/OIP	PG&E	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT

COMMENT: PG&E PREVIOUSLY STATED THEY COULD NOT PROVIDE NSC CALCS FOR PRESSURE/TEMP TRANSIENTS USED TO GENERATE EVALUATE THE TURBINE BUILDING ENVIRONMENT. PG&E TO EITHER PROVIDE ORIGINAL DOCUMENTATION OR PERFORM REANALYSIS IN CONJUNCTION W/RECOMMENDATION FOR ERROR REPORT 8001.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8006	820909	OD	3	821029	TES	OIR	SWEC	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: SWEC TO CONSIDER THE RESPONSE IN PG&E COMPLETION SHEET DATED 821015.										
8006	820909	OD	4	821116	SWEC	PPRR/OIP	TES	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: RE: PG&E'S COMPLETION SHEET DATED 821015. DOCUMENTATION NECESSARY TO VERIFY ANALYSIS METHODS AND INPUTS SUCH AS VENT AREA IN TURBINE BUILDING COULD NOT BE PROVIDED. PG&E TO EITHER PROVIDE ORIGINAL DOCUMENTATION OR DOCUMENTATION IN CONJUNCTION W/RECOMMENDATIONS FOR REANALYSIS SPECIFIED IN EOI 8001.										
8006	820909	OD	5	821118	TES	PRR/OIP	PG&E	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: DOCUMENTATION NECESSARY TO VERIFY ANALYSIS METHODS AND INPUTS SUCH AS VENT AREA IN TURBINE BUILDING. PG&E TO PROVIDE EITHER THE ORIGINAL DOCUMENTATION OR DOCUMENTATION IN CONJUNCTION WITH THE RECOMMENDATIONS FOR REANALYSIS SPECIFIED IN EOI 8001.										
8006	820909	OD	6	830111	TES	OIR	SWEC	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: PG&E DIDN'T PROVIDE CALCS. WHICH DETERMINED INPUT FOR EVALUATION OF ENVIRONMENTAL PARAMETERS IN TURBINE BUILDING. IT IS CONSIDERED THAT THIS CONCERN WILL BE ADDRESSED IN RESPONSE TO EOI 8001. TES REQUESTS SWEC TO ISSUE POTENTIAL PROGRAM RESOLUTION REPORT TO PROCESS THIS FILE AS A CLOSED ITEM.										
8006	820909	OD	7	830118	SWEC	PPRR/CI	TES	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: RESPONSE IN PG&E COMPLETION SHEET SIGNED 821122 IS ADEQUATE BECAUSE REANALYSIS BEING PERFORMED TO EVALUATE ENVIRONMENTAL PARAMETERS (P/T TRANSIENTS) IN TURBINE BLDG. IN RESPONSE TO EOI 8001 WILL ADDRESS CONCERN OF EOI 8006.										
8006	820909	OD	8	830124	TES	PRR/CI	TES	LCN		LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: PG&E COMPLETION SHEET, REV.3, SIGNED 821122 STATES THAT REANALYSIS TO EVALUATE ENVIRONMENTAL PARAMETERS (P/T TRANSIENTS) IN THE TURBINE BUILDING BEING PERFORMED IN RESPONSE TO EOI 8001 WILL ADDRESS THE CONCERN OF EOI 8006. THE IDVP CONCURS WITH THE DCP COMPLETION SHEET.										
8006	820909	OD	9	830124	TES	CR	NONE	LCN	NO	LACK OF REFERENCE MATERIAL TO EVALUATE ENVIRONMENT
COMMENT: SWEC CAN'T PERFORM REMAINING REVIEW WORK ASSOCIATED W/PRESSURE/TEMP ENVIR & EFFECTS DUE TO DELINQUENT INFO FROM PG&E. PG&E COMPLETION SHT, REV.3 SIGNED 821122 STATES THAT REANALYSIS TO EVALUATE ENVIRONMENTAL PARAMETERS (P/T TRANS.) IN THE TURBINE BLDG BEING PERFORMED IN RESPONSE TO EOI 8001 WILL ADDRESS THE CONCERN OF EOI 8006. CLOSED ITEM.										
8007	820913	FID	0	820913	SWEC	OIR	SWEC	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: DAMAGE TO CRVP CONDUIT K6844 MAY RESULT AS PIPE RUPTURE RESTRAINT #1030-14RT IS NOT PROPERLY LOCATED TO PREVENT PIPE WHIP OF MAIN STEAM 3 RELIEF HEADER DUE TO A CIRCUMFERENTIAL BREAK AT NODE 3510. THUS, ESSENTIAL CRVP FUNCTIONS MAY BE IMPAIRED.										
8007	820913	FID	1	821001	SWEC	PPRR/OIP	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: AN EVALUATION SHOULD BE PERFORMED TO DETERMINE IF K6844 IS AFFECTED BY THE PIPE RUPTURE EVENT AND IF SO, WHETHER CRVP SYSTEM COMPONENTS REQUIRED TO MAINTAIN CONTROL ROOM HABITABILITY ARE AFFECTED. A STEAM LINE BREAK AT NODE 3510 MAY REQUIRE ISOLATION OF THE NORMAL NODE 1 CRVP INTAKES.										
8007	820913	FID	2	821018	TES	PRR/OIP	PG&E	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: PG&E SHOULD PERFORM EVALUATION TO DETERMINE IF K6844 IS AFFECTED BY PIPE RUPTURE EVENT, AND IF SO, WHETHER CRVP SYSTEM COMPONENTS REQUIRED TO MAINTAIN CR HABITABILITY ARE AFFECTED. RESULTS TO BE DOCUMENTED FOR SWEC REVIEW. RESULTS TO BE PROVIDED BY 821101.										
8007	820913	FID	3	830225	TES	OIR	SWEC	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: TES REQUEST SWEC TO REVIEW THE DCP RESPONSE TO FILE 8007-2, DCP RESOLUTION AND COMPLETION SHEETS, 830218, AND PROVIDE A RECOMMENDATION FOR THE FUTURE DISPOSITION OF THIS FILE.										
8007	820913	FID	4	830304	SWEC	PPRR/CI	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: SWEC REVIEWED DCP RESOL SHT & FOUND IT ACCEPTABLE. DCP RESPONSE GIVES REASONABLE INTERPRET OF PAR. 1(D) OF AEC LTR (GIAMBUSSO TO SEARLS, 721218). THE UNDERLYING CONCERN NEED NOT BE CONSIDERED AS A REQUIRED ACCIDENT SCENARIO. REST ISN'T REQ AS PRIM SOURCE OF MITIGATION OF ANY MS SYS PIPE BREAK EFFECTS. K6844 HAS SINCE BEEN DET AS NON-ESSENTIAL FOR RECTOR										
8007	820913	FID	5	830310	TES	PRR/CI	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1030-14RT
COMMENT: IDVP HAS REVIEWED DCP RES SHT, IN RESPONSE TO FILE 8007-2, 830218 AND AEC LTR (GIAMBUSSO TO SEARLS, 721218). RESTRAINT 1030-14RT NOT REQUIRED TO MITIGATE ANY MAIN STEAM PIPE BREAK. IDVP PERFORMED SAFETY EVALUATION, SHOWS CONDUIT K6844 CABLES NOT REQUIRED FOR REACTOR SHUTDOWN FOR POSTULATED PIPE BREAK. (NODE 3510).										
8007	820913	FID	6	830310	TES	CR	NONE	LCN	NO	MAIN STEAM PIPE RUPTURE EFFECTS ON CRVP SYSTEM
COMMENT: IDVP HAS REVIEWED DCP RES SHT, 830218 AND AEC LTR (GIAMBUSSO TO SEARLS, 721218). RESTRAINT 1030-14RT NOT REQUIRED TO MITIGATE ANY MAIN STEAM PIPE BREAK. IDVP PERFORMED SAFETY EVALUATION, SHOWS CONDUIT K6844 CABLES NOT REQUIRED FOR REACTOR SHUTDOWN FOR POSTULATED PIPE BREAK. (NODE 3510). CLOSED ITEM.										
8008	820913	FID	0	820913	SWEC	OIR	SWEC	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT
COMMENT: DAMAGE TO CRVP CONDUIT K6844 MAY RESULT AS PIPE RUPTURE RESTRAINT #1031-11RT IS NOT PROPERLY LOCATED TO PREVENT PIPE WHIP OF MAIN STEAM 4 RELIEF HEADER DUE TO CIRCUMFERENTIAL BREAK AT NODE 4145. THUS, ESSENTIAL CRVP FUNCTIONS MAY BE IMPAIRED.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	1	821001	SWEC	PPRR/OIP	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT

COMMENT: AN EVALUATION SHOULD BE PERFORMED TO DETERMINE IF K6844 IS AFFECTED BY PIPE RUPTURE EVENT, AND IF SO, WHETHER CRVP SYS. COMPONENTS REQUIRED TO MAINTAIN CR HABITABILITY ARE AFFECTED. A STEAM LINE BREAK AT NODE 4145 MAY REQUIRE ISOLATION OF THE NORMAL MODE 1 CRVP INTAKES.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	2	821018	TES	PRR/OIP	PG&E	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT

COMMENT: PG&E SHOULD PERFORM EVALUATION TO DETERMINE IF K6844 IS AFFECTED BY PIPE RUPTURE EVENT, AND IF SO, WHETHER CRVP SYSTEM COMPONENTS REQUIRED TO MAINTAIN CR HABITABILITY ARE AFFECTED. RESULTS TO BE DOCUMENTED FOR SWEC REVIEW. RESULTS TO BE PROVIDED BY 821101.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	3	830225	TES	OIR	SWEC	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT

COMMENT: TES REQUESTS SWEC TO REVIEW THE DCP RESPONSE TO FILE 8008-2, DCP RESOLUTION AND COMPLETION SHEETS 830218, AND PROVIDE A RECOMMENDATION FOR THE FUTURE DISPOSITION OF THIS FILE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	4	830304	SWEC	PPRR/CI	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT

COMMENT: SWEC REVIEWED DCP RESOLUTION SHEET AND FOUND IT ACCEPTABLE. DCP RESPONSE GIVES REASONABLE INTERPRETATION OF PAR. 1(D) OF AEC LTR(GIAMBUSSO TO SEARLS 721218). THE UNDERLYING CONCERN NEED NOT BE CONSIDERED AS A REQUIRED ACCIDENT SCENARIO. K684 HAS SINCE BEEN DETERMINED AS NON-ESSENTIAL FOR REACTOR SHUTDOWN UNDER THE POSTULATED MAIN STEAM LINE BREAK AT NODE 4145.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	5	830310	TES	PRR/CI	TES	LCN		EFFECT OF THE BREAK-PIPE RUPT RESTRAINT 1031-11RT

COMMENT: IDVP HAS REVIEWED DCP RES SHT FOR FILE 8008-2, 830218 AND AEC LTR (GIAMBUSSO TO SEARLS, 721218). RESTRAINT 1031-11RT NOT REQUIRED TO MITIGATE ANY MAIN STEAM PIPE BREAK. IDVP PERFORMED SAFETY EVALUATION, SHOWS CONDUIT K6844 CABLES NOT REQUIRED FOR REACTOR SHUTDOWN FOR POSTULATED PIPE BREAK. (NODE 4145).

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8008	820913	FID	6	830310	TES	CR	NONE	LCN	NO	MAIN STEAM PIPE RUPTURE EFFECTS ON CRVP SYSTEM

COMMENT: IDVP HAS REVIEWED DCP RES SHT, 830218 AND AEC LTR (GIAMBUSSO TO SEARLS, 721218). RESTRAINT 1031-11RT NOT REQUIRED TO MITIGATE ANY MAIN STEAM PIPE BREAK. IDVP PERFORMED SAFETY EVALUATION, SHOWS CONDUIT K6844 CABLES NOT REQUIRED FOR REACTOR SHUTDOWN FOR POSTULATED PIPE BREAK. (NODE 4145). CLOSED ITEM.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	0	820913	SWEC	OIR	SWEC	LCN		EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: A SECTION OF AFW DISCHARGE PIPING DOES NOT MEET CODE REQUIREMENTS (ANSI B31.1, SECT.102.2.5(E)) UNDER TURBINE OVERSPEED CONDITIONS ANSI B16.5 900# FLANGE RATINGS ARE EXCEEDED.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	1	821001	SWEC	PPRR/OIP	TES	LCN		EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: REEVALUATE DESIGN PRESSURE TO INCORPORATE SUSTAINED PRESSURE DURING RECIRCULATION MODE, INCL. MAX. SUCTION STATIC HEAD. FACTOR REVISED DESIGN PRESSURE INTO STRESS ANALYSIS. EVAL. ALL COMPONENTS, PIPING VALVES FOR COMPATABILITY W/NEW DESIGN PRESSURE. ADDRESS OCCASIONAL LOAD OF PUMP OVERSPEED ON FLANGES, VALVES & PIPING.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	2	821022	TES	PRR/OIP	PG&E	LCN		EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: PG&E TO REVIEW AND JUSTIFY THE SELECTED DESIGN PRESSURE OF 1300 PSIA AND TO CONSIDER THE SUSTAINED PRESSURE DURING RECIRCULATION MODE, INCLUDING MAXIMUM SUCTION STATIC HEAD. RESPONSE REQUESTED BY 821029.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	3	830113	TES	OIR	SWEC	LCN		EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: THE DESIGN PRESSURE SHOWN IN LINE DESIGNATION TABLE DOES NOT MEET REQUIREMENTS OF ANSI B31.7 CLASS III CODE. OCCASIONAL LOAD OF TURBINE OVERSPEED MUST BE REVIEWED. TES REQUESTS SWEC TO REVIEW PG&E RESOLUTION SHEET SIGNED 830103 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	4	830214	SWEC	PER/A	TES	LCN		EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: UNDER CERTAIN OP. CONDITIONS, AFW PIPING MAY BE SUBJECT TO PRESSURES WHICH COULD EXCEED CODE STRESS ALLOWABLES. DCP RES. SHT. DATED 830201 INDICATED MODS. RECLASSIFIED AS ERROR A SINCE CODE DESIGN CRITERIA IS EXCEEDED. DCP SHOULD EVALUATE ALL COMPONENTS, PIPING, AND VALVES FOR COMPATIBILITY WITH NEW DESIGN PRESSURE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	5	830225	TES	ER/A	PG&E	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: UNDER CERTAIN OPERATING CONDITIONS, AFW PIPING MAY EXPERIENCE PRESSURES WHICH COULD EXCEED CODE STRESS ALLOWABLES. DCP SHOULD EVAL ALL COMPONENTS, PIPING, AND VALVES FOR COMPATIBILITY W/NEW DESIGN PRESSURE AND FACTOR THIS IN WITH EXISTING STRESS ANALYSIS AND REVIEW.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	6	830309	SWEC	PER/A	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: DCP RES SHT DATED 830218, PROPOSED MODS AND DESIGNATED REVISED SYSTEM PRESSURES FOR AFW SYSTEM. SWEC HAS REVIEWED AND FOUND THEM IN COMPLIANCE W/CODE REQUIREMENTS. MODS TO BE VERIFIED BY IDVP. FURTHER VERIFICATION DESCRIBED IN ITR-34.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	7	830309	TES	ER/A	PG&E	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: IDVP REVIEWED 830218 DCP RES. SHT. AND CONCLUDES THAT PROPOSED MODS AND PRESSURE VALUES ARE IN COMPLIANCE WITH CODE REQUIREMENTS. MODS TO BE VERIFIED BY IDVP. ADDITIONAL VERIFICATION FOR THIS ITEM DESCRIBED IN ITR-34.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8009	820913	DMD	8	830602	TES	OIR	SWEC	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING

COMMENT: TES REQUEST SWEC TO REVIEW THE DCP COMPLETION SHEET SIGNED 830531 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8009	820913	DMD	9	830603	SWEC	PPRR/CI	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING
COMMENT: DCP COMPLETED MODS. REPLACED VALVES WHICH EXCEEDED ANSI RATING. ALL OTHER PIPING, COMPONENTS, AND VALVES WERE CONFIRMED AS ACCEPTABLE BY DOCUMENTATION CHECKS AND/OR FIELD VERIFICATION OF RATINGS. SWEC FIELD VERIFIED ON 830525. AFW TURBINE'S SPEED SETPOINT WILL BE CHANGED DURING PLANT STARTUP (NOT TO BE VERIFIED BY IDVP).										
8009	820913	DMD	10	830603	TES	PRR/CI	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING
COMMENT: AFW TURBINE'S SPEED SETPOINT WILL BE CHANGED DURING PLANT STARTUP BUT WON'T BE VERIFIED BY IDVP (CHANGE PART OF AUDITABLE PLANT RECORDS). DCP COMPLETED MODS AND VERIFIED BY IDVP ON 830525. ALL OTHER PIPING, COMPONENTS AND VALVES CONFIRMED AS ACCEPTABLE BY DOCUMENTATION CHECKS AND/OR FIELD VERIFICATION OF RATINGS.										
8009	820913	DMD	11	830603	TES	CR		NONE	LCN YES	EVAL. OF COMPLIANCE W/ANSI CODE OF AFW PIPING
COMMENT: UNDER CERTAIN OPERATING CONDITIONS, AFW PIPING MAY EXPERIENCE PRESSURES GREATER THAN CODE ALLOWABLES. DCP COMPLETED MODS, WERE FIELD VERIFIED BY IDVP ON 830525. ALL OTHER PIPING, COMPONENTS AND VALVES ACCEPTABLE BY DOCUMENTATION CHECKS AND/OR FIELD VERIFICATION OF RATINGS. CLOSED ITEM. PREVIOUSLY WAS AN ER/A.										
8010	820913	DMD	0	820913	SWEC	OIR		SWEC	LCN	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: AFW TURBINE PUMP BEARING COOLERS AND PIPING ARE NOT ADEQUATELY PROTECTED AGAINST PRESSURE SURGES & A VARIETY OF OPERATING CONDITIONS.										
8010	820913	DMD	1	820913	SWEC	OIR		SWEC	LCN	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: PRESENT INSTALLATION HAS THROTTLE VALVE HANDWHEEL STILL IN PLACE AND LOCKING MECHANISM DISCONNECTED ON WRONG VALVE.										
8010	820913	DMD	2	821001	SWEC	PPRR/OIP	TES	LCN		EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: INSTALL A PROPERLY SIZED RELIEF VALVE IN LINE BETWEEN THE TWO '49' VALVES TO PROTECT THE PIPE & HEAT EXCH. OR PERFORM OTHER SUITABLE MODS TO MEET THE REQUIREMENT OF PARAGRAPH 102.2.5(B).										
8010	820913	DMD	3	821022	TES	OIR		SWEC	LCN	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: PHYSICAL CHANGES TO THE SYSTEM ARE REQUIRED TO MEET THE REQUIREMENTS OF ANSI B 31.1 102.2.5. SWEC SHOULD RECONSIDER THIS FILE TO BE POTENTIAL ERROR CLASS 'A'.										
8010	820913	DMD	4	821029	SWEC	PER/A	TES	LCN		EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: AFW TURBINE PUMP BEARING COOLERS AND PIPING ARE NOT ADEQUATELY PROTECTED AGAINST PRESSURE SURGES AND A VARIETY OF OPERATING CONDITIONS. PRESENT INSTALLATION HAS THROTTLE VALVE HANDWHEEL STILL IN PLACE AND LOCKING MECHANISM DISCONNECTED ON WRONG VALVE. REQUIREMENTS OF ANSI B31.1 102.2.5(b) TO BE MET.										
8010	820913	DMD	5	821105	TES	ER/A	PG&E	LCN		EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: AFW TURBINE PUMP BEARING COOLERS AND PIPING ARE NOT ADEQUATELY PROTECTED AGAINST PRESSURE SURGES AND A VARIETY OF OPERATING CONDITIONS. PRESENT INSTALLATION HAS THROTTLE VALVE HANDWHEEL STILL IN PLACE AND LOCKING MECHANISM DISCONNECTED ON WRONG VALVE. REQUIREMENTS OF ANSI B31.1 102.2.5(b) TO BE MET.										
8010	820913	DMD	6	830113	TES	OIR		SWEC	LCN YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: DCO-E-M-472 ADDED A VALVE THAT PROVIDES ADDITIONAL BACK PRESSURE AND FLOW THRU TURBINE BEARING COOLERS. PIPING AND COMPONENTS DO NOT APPEAR ADEQUATELY PROTECTED AGAINST SURGES AND A VARIETY OF OPERATING CONDITIONS. TES REQUESTS SWEC TO REVIEW PG&E RESOLUTION SHEET SIGNED 821221 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8010	820913	DMD	7	830304	SWEC	PER/A	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: CODE CLASS PIPING AND BEARING COOLER HX COULD BE OVERSTRESSED. FAILURE OF BC AND/OR AFWP 1-1 RECIRC. PIPING COULD DEGRADE SYSTEM FUNCTION. SWEC FINDS DCP PROPOSED MODS FROM RES. SHT. DATED 830218 ACCEPTABLE. MODS WILL BE VERIFIED BY IDVP. ADDITIONAL VERIFICATION FOR THIS ITEM DESCRIBED IN ITR 34.										
8010	820913	DMD	8	83031v	TES	ER/A	PG&E	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: CODE CLASS PIPING AND BEARING COOLER HX COULD BE OVERSTRESSED. FAILURE OF BC AND/OR AFWP 1-1 RECIRC. PIPING COULD DEGRADE SYSTEM FUNCTION. SWEC FINDS DCP PROPOSED MODS FROM RES. SHT. DATED 830218 ACCEPTABLE. MODS WILL BE VERIFIED BY IDVP. ADDITIONAL VERIFICATION FOR THIS ITEM DESCRIBED IN ITR 34.										
8010	820913	DMD	9	830601	TES	OIR		SWEC	LCN YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: TES REQUESTS SWEC TO REVIEW THE DCP COMPLETION SHEET, SIGNED 830527, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8010	820913	DMD	10	830601	SWEC	PPRR/CI	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: SWEC HAS REVIEWED THE PROPOSED MODS AND FOUND THEM ACCEPTABLE. DCP COMPLETED PHYSICAL MODS AS SHOWN ON DCN #DC1-EM-5009, REV. 0. MODS WERE FIELD VERIFIED AS COMPLETE BY SWEC ON 830525.										
8010	820913	DMD	11	830602	TES	PRR/CI	TES	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER
COMMENT: IDVP REVIEWED ON 830525 AND FIELD VERIFIED THE DCP MODIFICATIONS DOCUMENTED BY THE DCP ON DCN #DC1-EM-5009 AND FOUND THEM TO BE ACCEPTABLE.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8010	820913	DMD	12	830602	TES	CR	NONE	LCN	YES	EVAL. OF COMPLIANCE W/ANSI CODE BEARING COOLER

COMMENT: CODE CLASS PIPING AND BEARING COOLER HX COULD BE OVERSTRESSED. FAILURE OF BC AND/OR AFWP 1-1 RECIRC. PIPING COULD DEGRADE SYSTEM FUNCTION. IDVP FIELD VERIFIED ON 830525 THE DCP MODS DOCUMENTED ON DCN #DC1-EM-5009 AND FOUND THEM TO BE ACCEPTABLE. CLOSED ITEM. PREVIOUSLY AN ER/A.

8011	820923	DMD	0	820923	SWEC	OIR	SWEC	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: FSAR SECT 3.6A, AMENDMENT 3, STATES RAYCHEM FLAMTROL & OKONITE OKOLON ENVIRONMENTALLY QUALIFIED CABLE USED THROUGHOUT PLANT FOR CONTROL & POWER. DCVP-SWEC-186 LISTS CIRCUITS ASSOC. W/AFW AND CRVP THAT USE CABLES OTHER THAN THESE. ALSO, FIELD VERIF. INDICATED SEVERAL NON-QUAL. CIRCUITS. REVIEW CABLE LOC. W/RESPECT TO HIGH ENERGY PIPE BREAK LOC.

8011	820923	DMD	1	821001	SWEC	PPRR/OIP	TES	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: FIELD REVIEW ROUTING OF ALL CIRCUITS IDENTIFIED ABOVE IN ACCORDANCE W/COMMITMENTS OF FSAR. IF ANY CIRCUITS ARE EXPOSED TO AN ENVIRONMENT (TEMP & HUMIDITY) RESULTING FROM HIGH ENERGY PIPE CRACK, INSURE THE ABILITY OF THE PLANT TO EFFECT AND MAINTAIN A SAFE SHUT DOWN.

8011	820923	DMD	2	821022	TES	PRR/OIP	PG&E	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: FIELD REVIEW THE ROUTING OF ALL CIRCUITS IDENTIFIED IN DCVP-SWEC-186 IN ACCORDANCE W/REQUIREMENTS OF THE FSAR, SECT 3.6, TO IDENTIFY ANY EXPOSED TO A SEVERE TEMP AND HUMIDITY ENVIRONMENT IN EVENT OF A HIGH ENERGY PIPE BREAK

8011	820923	DMD	3	830219	TES	OIR	SWEC	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: SWEC TO REVIEW DCP RESPONSE (REF. DCP RESOLUTION SHEETS, IDVP FILE NO. 8011, REV. 2, DATED 830203 AND 830211) AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

8011	820923	DMD	4	830225	SWEC	PPRR/DEV	TES	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: SWEC HAS REVIEWED PG&E COMPLETION PACKAGE SIGNED 830211 AND 830203 AND FINDS IT ACCEPTABLE. PG&E WILL UPDATE THEIR ENVIRONMENTAL FILES TO INCLUDE THE TWO TYPES OF CABLE AND REMOVE REFERENCE TO TYPE OF CABLE QUALIFIED IN REVISION TO NSC JET EFFECT DUE TO PIPE BREAK REPORT (FSAR).

8011	820923	DMD	5	830225	TES	PRR/DEV	TES	JWW		AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: SWEC HAS REVIEWED DCP COMP PACKAGE DATED 830203 AND 830211 AND HAS FOUND THEM TO BE ACCEPTABLE BASED ON CABLE QUAL. TEST REPORTS, PG&E DOCUMENTATION ON EQUIPMENT QUALIFICATION AND FSAR WILL BE REVISED TO REFLECT THIS INFO.

8011	820923	DMD	6	830225	TES	CR	NONE	JWW	NO	AUX FW & CONTROL RM VENT. & PRESS. SYS. CABLE

COMMENT: FSAR SECT 3.3A, AMM 3, STATES RAYCHEM FLAMTROL & OKONITE OKOLON ENVIR QUALIFIED CABLE USED IN PLANT FOR CONTROL & POWER CIRCUITS IN AFW AND CRVP USED OTHER THAN THESE. SWEC REVIEWED DCP COMP PACKAGE DATED 830203 AND 830211 AND FOUND ACCEPT. BASED ON CABLE QUAL. TEST REPORTS. PG&E DOCUMENTS TO BE REVISED. DEVIATION.

8012	820924	DMD	0	820924	SWEC	OIR	SWEC	JWW		CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: PORTIONS OF CRVP SYS. REQUIRED TO MAINTAIN UNIT 1 CR HABITABILITY ARE SHARED BETWEEN UNITS 1 & 2. IF UNIT 2 SAFETY RELATED ELEC. SYS. IS NOT AVAL., CRVP SYS. DOES NOT MEET THE SINGLE FAILURE CRITERIA. REVISE CRVP POWER SUPPLIES TO ENSURE ADEQUATE COOLING, DAMPERS CLOSE, INTAKE RADIATION MONITORS AVAIL.

8012	820924	DMD	1	821001	SWEC	PPRR/OIP	TES	JWW		CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: REVISE SYS POWER SUPPLIES TO CRVP EQUIP. TO ENSURE THAT: ADEQUATE COOLING PROVIDED TO SAFEGUARDS ROOM, CR DAMPERS CLOSE TO EFFECT ISOLATION, PRESSURIZATION INTAKE RADIATION MONITORS ARE OPERABLE TO SELECT THE PROPER INTAKE FOR PRESSURIZATION FLOW.

8012	820924	DMD	2	821022	TES	OIR	SWEC	JWW		CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: SWEC TO REVIEW SINGLE FAILURE CRITERION. UNDER CONDITIONS OF LOCA IN UNIT 1 AND UNIT TRIP OR SHUT DOWN OF UNIT 2 TOGETHER WITH LOSS OF OFF-SITE POWER, UNIT 1 & 2 VITAL BUSES ARE ENERGIZED BY DIESEL GENERATORS. CRVP SYSTEM HAS ENOUGH REDUNDANCY TO SATISFY SINGLE FAILURE CRITERIA. RECOMMEND CLOSED ITEM. RETURNED TO SWEC FOR FURTHER CONSIDERATION.

8012	820924	DMD	3	821103	SWEC	PER/A	TES	JWW		CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: PORTIONS OF THE CRVP SYSTEM REQUIRED TO MAINTAIN UNIT 1 CR HABITABILITY SHARED BETWEEN UNITS 1 AND 2. UNIT 2 DIESEL GENERATORS PROVIDE SAFETY RELATED POWER. HOWEVER, PRIOR TO COMPLETION OF UNIT 2, CRVP SYSTEM DOES NOT MEET SINGLE FAILURE CRITERIA. PG&E TO REVISE SYSTEM POWER SUPPLIES TO CRVP EQUIPMENT.

8012	820924	DMD	4	821116	TES	ER/A	PG&E	JWW	YES	CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: VARIOUS COMBINATIONS OF POWER LOSS WOULD RENDER CRVP SYSTEM UNABLE TO MEET THE SINGLE FAILURE CRITERIA. PER 821103 REVIEW COMMITTEE, PG&E SHOULD REVISE CRVP POWER SUPPLIES TO CRVP EQUIPMENT TO ENSURE THAT PROPER COOLING, ISOLATION AND PRESSURIZATION IS PROVIDED TO THE SAFEGAURDS AND CONTROL ROOMS.

8012	820924	DMD	5	830311	TES	OIR	SWEC	JWW	YES	CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: SWEC TO REVIEW THE DCP RESPONSE SIGNED 830308 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8012	820924	DMD	6	830311	SWEC	PER/A	TES	JWW	YES	CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: PORTIONS OF CRVP SYS REQUIRED TO MAINTAIN HABITABILITY ARE SHARED BTWN UNIT 1 & 2 AND ARE PROVIDED S-R POWER FROM UNIT 2 DIESEL GEN. AND ELECTRICAL SYS. CRVP SYS DOES NOT MEET SINGLE FAILURE CRITERIA. SWEC REVIEWED DCP RES SHT DATED 830201 & 830308 & ACCEPTS PG&E PROPOSED MODS TO SYS. IDVP TO FIELD VERIFY MODS. ADDED VERIF. DETAILED IN ITR-34.

	REV. 0		LATEST REV.				ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8012	820924	DMD	7	830315	TES	ER/A	PG&E	JWW	YES	CLASS 1 PORTIONS OF CRVP SYSTEM

COMMENT: PORTIONS OF CRVP SYS REQUIRED TO MAINTAIN HABITABILITY ARE SHARED BTWN UNIT 1 & 2 AND ARE PROVIDED S-R POWER FROM UNIT W DIESEL GEN. AND ELECTRICAL SYS. CRVP SYS DOES NOT MEET SINGLE FAILURE CRITERIA. SWEC REVIEWED DCP RES SHT DATED 830201 & 830308 & ACCEPTS PG&E PROPOSED MODS TO SYS. IDVP TO FIELD VERIFY MODS, SEE ITR-34. INCLUDES EOIS 8016 & 8046.

8012	0		8	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8012	0		9	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8012	0		10	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8012	0		11	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8012	0		12	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8012	0		13	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8013	820924	OD	0	820924	SWEC	OIR	SWEC	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: TEST DATA NOT AVAIL. TO VERIFY CAPABILITY OF DIESEL GENERATORS TO START & ACCELERATE AUTO. SEQUENCED MOTOR LOADS CONCURRENT W/PRIOR RUNNING MOTORS ASSOC. W/DC1 SAFETY SYS. ALSO NOT AVAIL. TO VERIFY EACH STARTING MOTOR OPERATION BEFORE NEXT LOAD IS SEQUENCED W/DIFF. TIME INTERVALS. CONDUCT & DOC. TESTS TO VERIFY DIESEL GENERATOR CAPABILITIES.

8013	820924	OD	1	821001	SWEC	PPRR/OIP	TES	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: RETURN TO SWEC FOR REISSUE AS ER. PG&E TO TEST DIESEL GENERATOR STARTING AND SEQUENTIAL LOADING. TES RECOMMENDS TESTS TO BE AS SPECIFIED IN IEEE STD. 387-1977. ALSO INVESTIGATE POSSIBILITY OF COMPUTER SIMULATION. 821029.

8013	820924	OD	2	821022	TES	OIR	SWEC	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: SWEC SHOULD RECONSIDER THIS FILE TO BE A POTENTIAL ERROR CLASS B. TES RECOMMENDS SITE ACCEPTANCE TESTS PER IEEE STANDARD 387-1977.

8013	820924	OD	3	821116	SWEC	PER/AB	TES	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: IN THE EVENT OF LOCA AT DC UNIT I AND SIMULT.LOSS OF OFF-SITE POWER, TEST DATA NOT AVAILABLE TO DEMONSTRATE THAT DIESEL GENERATORS WOULD BE ABLE TO PERFORM THEIR FUNCTIONS TO SUPPLY POWER TO SAFETY SYSTEMS TO FACILITATE SAFE SHUTDOWN. PG&E TO DEMONSTRATE ADEQUATE CAPABILITY.

8013	820924	OD	4	821123	TES	OIR	SWEC	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: TEST DATA NOT AVAILABLE TO DEMONSTRATE CAPABILITY OF DIESEL GEN. TO PERFORM THEIR SAFETY-RELATED FUNCTIONS REQ.BY REG GUIDE 1.9, 710309. EXISTING TEST DATA DOES NOT VERIFY CAPABILITY OF D.G.TO START AND ACCELERATE TO RATED SPEED IN REQUIRED SEQUENCE FOR ALL THE NEEDED SAFETY-RELATED LOADS.

8013	820924	OD	5	821202	SWEC	PER/AB	TES	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: EITHER RETESTING USING LOAD AND SEQUENCING VALUES WHICH DIESEL GEN. MUST NOW SERVICE (TYPE B ERROR) OR MODIFY EXISTING LOAD AND/OR SEQUENCING TO ENSURE EXISTING TEST DATA WILL DEMONSTRATE CAPABILITY (TYPE A ERROR). NO INFO. PROVIDED BY PG&E ELIMINATES THE CONCERN.

8013	820924	OD	6	821206	TES	ER/AB	PG&E	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: PG&E SHOULD PERFORM RETESTING USING LOAD AND SEQUENCING VALUES WHICH DIESEL GENERATOR MUST NOW SERVICE OR MODIFY THE EXISTING LOADING AND/OR SEQUENCING TO ENSURE THE EXISTING TEST DATA WILL DEMONSTRATE ADEQUATE CAPABILITY.

8013	820924	OD	7	830222	TES	OIR	SWEC	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET 8013, REVS. 0 AND 1, SIGNED 830208 & PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	PG&E TES	MODS	SUBJECT
8013	820924	OD	8	830309	SWEC	PPRR/DEV	TES	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: DIESEL GENERATOR MANUFACTURER'S TEST SUMMARY AND PG&E TEST PROCEDURE 21.1 W/ADDED TEST DATA AND CALCS BY PG&E SHOW CAPABILITY OF DG TO START AND ACCELERATE REQUIRED SAFETY-RELATED LOADS IN DESIGN SEQUENCE. DG ACCEPTABLE AND DOWNGRADED FROM ER/AB TO DEVIATION.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8013	820924	OD	9	830311	TES	PRR/DEV	TES	JWW		EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: DIESEL GEN ACCEPTABLE BASED ON MANUFACTURER'S TEST SUMMARY AND PG&E TEST PROC. 21.1 W/ADDED TEST DATA AND CALCS TO DEMONSTRATE ABILITY TO START AND ACCELERATE REQUIRED S-R LOADS IN DESIGN SEQUENCE. DOWNGRADED FROM ER/AB.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8013	820924	OD	10	830311	TES	CR	NONE	JWW	NO	EMERGENCY DIESEL GEN. NOS. 11, 12, & 13

COMMENT: DOCUMENTATION NOT INITIALLY AVAILABLE TO VERIFY ABILITY TO START AND ACCELERATE TO MOTOR LOADS. DIESEL GEN ACCEPTABLE BASED ON MANUFACTURER'S TEST SUMMARY AND PG&E TEST PROC. 21.1 W/ADDED TEST DATA AND CALCS TO DEMONSTRATE ABILITY TO START AND ACCELERATE REQUIRED S-R LOADS IN DESIGN SEQUENCE. DOWNGRADED FROM ER/AB. CLOSED ITEM.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	0	820924	SWEC	OIR	SWEC	LCN		AUX FW SYS VALVES

COMMENT: COMMITTED PROTECTION AGAINST MODERATE ENERGY LINE BREAK SPRAY HAS NOT BEEN PROVIDED FOR VALVES LCV-108, 109, 113, 115, AND FCV-436.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	1	821001	SWEC	PER/AB	TES	LCN		AUX FW SYS VALVES

COMMENT: PG&E TO PROVIDE ADEQUATE PROTECTION FOR VALVES LCV-108, 109, 113, 115, FCV-436 TO MEET ITS LICENSING COMMITMENT. PG&E TO PROVIDE COMPLETED RESOLUTION TO SWEC IN A FORMAT THAT CAN BE INDEPENDENTLY REVIEWED.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	2	821018	TES	ER/A	PG&E	LCN		AUX FW SYS VALVES

COMMENT: PG&E TO PROVIDE ADEQUATE PROTECTION FOR VALVES LCV-1108, 109, 113, 115, FCV-436 TO MEET THEIR LICENSING COMMITMENT ALSO, TO PROVIDE VERIFIABLE DOCUMENTATION TO IDVP OF COMPLETED INSTALLATION.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	3	830215	TES	OIR	SWEC	LCN		AUX FW SYS VALVES

COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET, SIGNED 830210 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	4	830217	SWEC	PER/C	TES	LCN		AUX FW SYS VALVES

COMMENT: MODS TO PROTECT FCV 436FOR MELB SPRAY NOT MADE. VALVES MAY FAIL ELECTRICALLY, HOWEVER, TIME AVAILABLE TO ALIGN VALVES MANUALLY. IDVP WILL RECLASSIFY AS ER/C. DCP TO PROVIDE COMP PACKAGE OF BARRIER INSTALLATION. IDVP TO CLOSE FILE AFTER VERIFICATION OF INSTALLATION.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	5	830225	TES	PRR/OIP	PG&E	LCN		AUX FW SYS VALVES

COMMENT: BASED ON DISCUSSIONS OVER THIS FILE HELD AT THE MEETING OF 830223 AT SWEC'S OFFICES, THIS FILE IS ISSUED TO PG&E FOR FUTURE DISPOSITION.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	6	830308	SWEC	PER/C	TES	LCN		AUX FW SYS VALVES

COMMENT: IDVP BELIEVES ADEQUATE TIME AVAILABLE TO MANUALLY ALIGN THESE SOURCES AFTER LOW CONDENSATE ALARM EVEN IF MOTOR OPERATORS NOT FUNCTIONAL. NEW ANALYSIS SHOWS SHIELDS NOT NEEDED. DCP COMMITS TO UPDATE 791228 LICENSING COMMITMENT LETTER TO NRC. DOWNGRADED BECAUSE DESIGN CRITERIA NOT EXCEEDED.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	7	830309	TES	OIR	SWEC	LCN		AUX FW SYS VALVES

COMMENT: MOD TO PROTECT FCV-36 FROM MELB SPRAY NOT MADE. PG&E 791228 LETTER TO NRC COMMITTED TO PROVIDE THIS PROTECTION PRIOR TO FUEL LOAD. FILE REVISION 8014/6 PREMATURELY ISSUED. SWEC REQUESTED TO ISSUE REV. 8 AS POTENTIAL ERROR REPORT, CLASS C

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	8	830309	SWEC	PER/C	TES	LCN		AUX FW SYS VALVES

COMMENT: MOD TO PROTECT FCV 436 FROM MELB SPRAY NOT MADE WHICH PG&E COMMITTED TO IN 791228 LTR TO NRC. IDVP BELIEVES ADEQ. TIME EXISTS TO MANUALLY ALIGN COOLING WATER SUPPLIES. DCP 830304 RES SHT INDICATES NEW ANAL WHICH SHOWS SHIELDS NOT NEED DWNGRD. ER/A TO ER/C. CONCERN STILL EXISTS FOR OTHER BARRIERS. 821018 COMP SHT INDICATES THEY'RE INSTALLED. IDVP VERIFY.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	9	830309	TES	ER/C	PG&E	LCN	NO	AUX FW SYS VALVES

COMMENT: MOD TO PROTECT FCV 436 FROM MELB SPRAY NOT MADE WHICH PG&E COMMITTED TO IN 791228 LTR TO NRC. IDVP BELIEVES ADEQ. TIME EXISTS TO MANUALLY ALIGN COOLING WATER SUPPLIES. DCP 830304 RES SHT INDICATES NEW ANAL WHICH SHOWS SHIELDS NOT NEED DWNGRD. ER/A TO ER/C. CONCERN STILL EXISTS FOR OTHER BARRIERS. 821018 COMP SHT INDICATES THEY'RE INSTALLED. IDVP VERIFY.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8014	820924	FID	10	830406	TES	CR	NONE	LCN	NO	AUX FW SYS VALVES

COMMENT: MOD TO PROTECT FCV 436 FROM MELB SPRAY NOT MADE WHICH PG&E COMMITTED TO IN 791228 LTR TO NRC. IDVP BELIEVES ADEQ. TIME EXISTS TO MANUALLY ALIGN COOLING WATER SUPPLIES. DCP 830304 RES SHT INDICATES NEW ANAL WHICH SHOWS SHIELDS NOT NEED DWNGRD. ER/A TO ER/C. CONCERN STILL EXISTS FOR OTHER BARRIERS. 821018 COMP SHT INDICATES THEY'RE INSTALLED. IDVP VERIFY.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8015	R20927	DMD	0	820927	SWEC	OIR	SWEC	LCN		AUX FW SYS FLOW CAPACITY

COMMENT: PERIODIC TESTING OF AFW PUMPS DOES NOT PROVIDE EVIDENCE THE PUMPS (MOTOR & TURBINE DRIVES) CAN SUPPLY THE REQUIRED FLOW TO THE STEAM GENERATOR OR DEMONSTRATE THAT ADEQUATE RECIRCULATION FLOW EXISTS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8015	820927	DMD	1	821001	SWEC	PPRR/OIP	TES	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: INCORPORATE THE PRESENTLY INSTALLED FLOW ELEMENTS; FE 6, 7, AND 8; IN THE INSERVICE INSPECTION PROGRAM TO MEASURE RECIRCULATION FLOW DIRECTLY ON A PERIODIC BASIS. PG&E RESOLUTION SHOULD BE COMPLETED BY 821029.										
8015	820927	DMD	2	821022	TES	OIR	SWEC	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: SWEC SHOULD RECONSIDER THIS FILE TO BE A POTENTIAL ERROR CLASS B.										
8015	820927	DMD	3	821029	SWEC	PER/B	TES	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: PERIODIC TESTING OF AFW PUMPS DOES NOT PROVIDE EVIDENCE THE PUMPS (MOTOR & TURBINE DRIVEN) CAN SUPPLY THE REQUIRED FLOW TO THE STEAM GENERATOR OR DEMONSTRATE THAT ADEQUATE RECIRCULATION FLOW EXISTS. INCORPORATE PRESENTLY INSTALLED FLOW ELEMENTS FE6,7,8 IN INSERVICE INSP. PROGRAM TO MEASURE RECIRC. FLOW DIRECTLY ON PERIODIC BASIS.										
8015	820927	DMD	4	821105	TES	ER/B	PG&E	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: PERIODIC TESTING OF AFW PUMPS DOES NOT PROVIDE EVIDENCE THE PUMPS (MOTOR & TURBINE DRIVEN) CAN SUPPLY THE REQUIRED FLOW TO THE STEAM GENERATOR OR DEMONSTRATE THAT ADEQUATE RECIRCULATION FLOW EXISTS. INCORPORATE PRESENTLY INSTALLED FLOW ELEMENTS FE6,7,8 IN INSERVICE INSP. PROGRAM TO MEASURE RECIRC. FLOW DIRECTLY ON PERIODIC BASIS.										
8015	820927	DMD	5	830103	TES	OIR	SWEC	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: THE RESPONSE IN PG&E COMPLETION SHEET IS NOT ADEQUATE. THE TESTS PERFORMED ON THE AFW SYSTEM DID NOT CONSIDER THE FLOW OF 50 GPM AS DEFINED IN SECTION 10.4.8 OF THE FSAR. SWEC SHOULD REQUEST PG&E TO SUBMIT MORE RESPONSIVE INFORMATION.										
8015	820927	DMD	6	0				LCN		AUX FW SYS FLOW CAPACITY
COMMENT: THIS REVISION WAS INADVERTENTLY OMITTED.										
8015	820927	DMD	7	830210	SWEC	PPRR/CI	TES	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: SURVEILLANCE REQUIREMENTS IN SECT 4.7.1.2 OF TECH. SPEC. IDENTIFY LICENSING COMMITMENTS THAT DC MUST MEET. REQUESTS FOR RELIEF FROM ASME XI CODE REQUIREMENTS, FOR IN-SERVICE INSPEC. AND TESTING HAVE BEEN SUBMITTED FOR NRC APPROVAL IN 810928 LETTER. FAILURE TO MEET THESE SPECIFIC LICENSING COMMITMENTS DIDN'T OCCUR.										
8015	820927	DMD	8	830225	TES	PRR/OIP	TES	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: REV 4 CLASSIFIED FILE AS ER/B. SUBSEQUENT REVIEW INDICATED THIS ASPECT NOT A CONCERN BECAUSE FAILURE TO MEET SURVEILLANC REQ. IN SEC. 4.7.1.2 OF TECH. SPEC. DIDN'T OCCUR. THIS ITEM DOWNGRADED FROM ER/B TO CLOSED ITEM. NO DCP ACTION REQUIRED.										
8015	820927	DMD	9	830225	TES	PRR/CI	TES	LCN		AUX FW SYS FLOW CAPACITY
COMMENT: PG&E COMPLETION SHEET SIGNED 821204 AND FILE REVS. 4 AND 8. FILE DOWNGRADED FROM ER/B TO CI.										
8015	820927	DMD	10	830225	TES	CR	NONE	LCN	NO	AUX FW SYS FLOW CAPACITY
COMMENT: PG&E COMPLETION SHEET SIGNED 821204 AND FILE REVS. 4 AND 8. FILE DOWNGRADED FROM ER/B TO CI. CLOSED ITEM.										
8016	820927	DMD	0	20927	SWEC	OIR	SWEC	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: PORTIONS OF CL.1 CRVP SYS ARE SHARED BY UNITS 1&2. FSAR STATES EACH UNIT CAN WITHSTAND AN ASSUMED FAILURE OF A VITAL BUS ASSUMING LOCA IN ONE AND SHUT DOWN OF THE OTHER. LOSS OF OFFSITE POWER MUST ALSO BE ASSUMED. FOR THIS CONDITION THE CRVP SYS DOES NOT MEET ITS SINGLE FAILURE DESIGN BASIS. REVIEW/REVISE SYS POWER SUPPLIES TO MEET FSAR REQUIREMENTS.										
8016	820927	DMD	1	821001	SWEC	PPRR/OIP	TES	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: REVIEW/REVISE SYS. POWER SUPPLIES TO CRVP EQUIP. TO ENSURE THAT ADEQUATE COOLING IS PROVIDED TO SAFEGUARDS ROOM TO ACCOMODATE DESIGN BASES TEMPERATURES AND CR DAMPERS CLOSE TO EFFECT ISOLAIOM IN ACCORDANCE W/SYS. LICENSED DESIGN BASE.										
8016	820927	DMD	2	821022	TES	OIR	SWEC	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: SINGLE FAILURE CRITERION MISINTERPRETED BY TES. UNIT 2 DIESEL-GENERATORS AVAILABLE EVEN IF UNIT 2 UNLICENSED OR NOT OPERATING. RECOMMENDS ITEM BE CLOSED. RETURNED TO SWEC FOR FURTHER CONSIDERATION.										
8016	820927	DMD	3	821103	SWEC	PER/A	TES	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: VARIOUS COMBINATIONS OF VITAL BUS FAILURES FOR LOCA IN EITHER UNIT COULD CAUSE CRVP TO NOT MEET ITS DESIGN BASES. PROGRAM RESOLUTION COMMITTEE MEETING OF 821103 RECOMMENDS REVISION OF SYSTEM POWER SUPPLIES TO CRVP EQUIPMENT IN SEVERAL AREAS.										
8016	820927	DMD	4	821116	TES	ER/A	PG&E	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: VARIOUS COMBINATIONS OF VITAL BUS FAILURES IN EITHER UNIT INDICATED CONDITIONS WHERE CRVP SYSTEM DOESN'T MEET DESIGN BASIS AS STATED IN LIC.COMMITMENTS. PER 821103 REVIEW COMMITTEE,PG&E SHOULD REVISE POWER SUPPLIES TO CRVP EQUIP.TO ENSURE COOLING TO SAFEGAURDS ROOM AND CR DAMPERS CLOSE TO EFFECT ISOLATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8016	820927	DMD	5	830225	TES	OIR	SWEC	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET DATED 830210 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8016	820927	DMD	6	830310	SWEC	PER/B	TES	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: DETERMINED THAT CRVP DESIGN AS OF 811130 DIDN'T MEET FSAR SECT. 9.4.1 SINGLE FAILURE CRITERIA AND MODS REQUIRED. PROPOSED MODS AS A RESULT OF 8012 WILL ENSURE ADEQUATE ELECTRICAL REDUNDANCY FOR CRVP WITH OR WITHOUT UNIT 2 LICENSED.										
8016	820927	DMD	7	830328	TES	PRR/OIP	PG&E	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: THIS FILE IS DOWNGRADED FROM AN ER/A TO A CI BASED ON THE FOLLOWING: THE POWER SUPPLY INADEQUACY IS RESOLVED BY MODIFICATIONS BEING PERFORMED IN THE RESOLUTION OF EOI FILE 8012, THE SAFE SHUTDOWN CONCERN WILL BE ADDRESSED IN THE IDVP FINAL REPORT, AND PROCEDURE PREP. NOT A UNIT 1 LICENSING REQUIREMENT.										
8016	820927	DMD	8	830328	TES	PRR/CI	PG&E	JWW		CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: THIS FILE WAS DOWNGRADED FROM AN ER/A TO A CLOSED ITEM BECAUSE THE CONCERNS IDENTIFIED BY EARLIER REVISIONS ARE RESOLVED BY MODIFICATIONS BEING PERFORMED IN EOI 8012 AND BY INCLUDING OTHER CONCERNS AS PART OF THE IDVP FINAL REPORT.										
8016	820927	DMD	9	830328	TES	CR	NONE	JWW	NO	CL.1 PORTIONS OF CRVP SYS. NOT MEETING DES. BASIS
COMMENT: VARIOUS COMBINATIONS OF VITAL BUS FAILURES FOR LOCA IN EITHER UNIT COULD CAUSE CRVP TO NOT MEET ITS DESIGN BASES. THIS FILE WAS DOWNGRADED FROM AN ER/A TO A CLOSED ITEM BECAUSE THE CONCERNS IDENTIFIED BY EARLIER REVISIONS ARE RESOLVED BY MODIFICATIONS BEING PERFORMED IN EOI 8012 AND BY INCLUDING OTHER CONCERNS AS PART OF THE IDVP FINAL REPORT.										
8017	821004	OD	0	821004	SWEC	OIR	SWEC	RRB		CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: CONTROL POWER FROM TWO REDUNDANT SAFETY RELATED SOURCES IS BROUGHT TOGETHER IN ONE ELECTRICAL CONTROL TRANSFER SWITCH (ITEM 178 ON MAIN CONTROL BOARD VB-4) CONTRARY TO SEP. CRITERIA AND REQ. (IEEE 279-1971 & IEEE 308-1971). MECH. OR ELEC. FAILURE OF SINGLE TRANSFER SWITCH CAUSE LOSS OF POWER TO SAF-REL HVAC EQUIP. OR MIXING OF TWO SAF-REL POWER SOURCES.										
8017	821004	OD	1	821004	SWEC	PER/AB	TES	RRB		CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: MECH. OR ELEC. FAILURE OF SINGLE TRANSFER SWITCH AND ASSOC. WIRING COULD RESULT IN LOSS OF POWER TO SAFETY RELATED HVAC EQUIPMENT OR JOINING EACH INDEPENDENT SOURCE OF CLASS IE POWER. PG&E TO COMPLY W/SEPARATION CRITERIA IN FSAR AND SINGLE FAILURE CRITERIA OF IEEE 279-1971 AND IEEE 308-1971.										
8017	821004	OD	2	821022	TES	ER/AB	PG&E	RRB		CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: MECH. OR ELEC. FAILURE OF SINGLE TRANSFER SWITCH AND ASSOC. WIRING COULD RESULT IN LOSS OF POWER TO SAFETY RELATED HVAC EQUIPMENT OR JOINING EACH INDEPENDENT SOURCE OF CLASS IE POWER. PG&E TO COMPLY W/SEPARATION CRITERIA IN FSAR AND SINGLE FAILURE CRITERIA OF IEEE 279-1971 AND IEEE 308-1971.										
8017	821004	OD	3	830225	TES	ER/A	PG&E	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: BASED ON TES AND SWEC REVIEW OF DCP RES. SHT. SIGNED 830118: 1)MODS REQUIRED AND FILE RECLASSIFIED FROM ER/AB TO ER/A; 2)ENGINEERING RESOLUTION PROPOSED BY DCP ACCEPTABLE TO IDVP. UPON COMPLETION OF MODS AS INDICATED BY A DCP COMP SHT, FILE TO BE REOPENED FOR SWEC VERIFICATION OF MODS.										
8017	821004	OD	4	830308	SWEC	PER/A	TES	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: PG&E ANALYZED CONTROL SCHEME FOR SINGLE FAILURE CRITERIA, AND WILL REPLACE SINGLE BUS SELECTOR SWITCH W/TWO REDUNDANT, INTERLOCKED SWITCHES. SWEC AGREES W/PROPOSED MOD AND WILL FIELD VERIFIY. FILE SHOULD BE RECLASSIFIED FROM ER/AB TO ER/A.										
8017	821004	OD	5	830309	TES	ER/A	PG&E	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: TES & SWEC REVIEW OF 830118 DCP RESOLUTION SHEET. RECLASSIFIED FROM ER/AB TO ER/A. RESOLUTION BY DCP ACCEPTABLE TO IDVP. FILE TO BE OPENED FOR SWEC VERIFICATION UPON COMPLETION OF REQUIRED MODS. THIS ERROR REPORT REITERATES FILE REV. 3 SOLEY TO CONFORM TO IDVP PROCESS SEQUENCE.										
8017	821004	OD	6	830601	TES	OIR	SWEC	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: TES REQUEST SWEC TO REVIEW DCP COMPLETION SHEET DATED 830527 AS VERIFIED BY SITE INSPECTION AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8017	821004	OD	7	830601	SWEC	PPRR/CI	TES	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: PG&E REPLACED SINGLE BUS SELECTOR SWITCH, WHICH CONTROLLED EACH TRAIN OF CR AC EQUIPMENT, W/TWO SWITCHES, ONE FOR EACH TRAIN. COMPLETED AND VERIFIED BY SWEC. PG&E DETERMINED TWO SWITCHES SUBJECT TO ADMINISTRATIVE PROCEDURES IN LIEU OF KEY INTERLOCKING.										
8017	821004	OD	8	830603	TES	PRR/CI	TES	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: MOD DESCRIBED IN DCP RESOLUTION SHEET DATED 830124 WAS REVIEWED AND FOUND ACCEPTABLE. VERIFICATION OF THE MOD BY THE IDVP ON 830524-25 CONFIRMED THAT THE MODS ARE COMPLETE AND CONSISTANT W/THE ACCEPTED RESOLUTION.										
8017	821004	OD	9	830603	TES	CR	NONE	RRB	YES	CRVP SYS. CONTROL POWER FOR SAFETY RELATED EQUIP.
COMMENT: MECH OR ELEC FAILURE OF SINGLE TRANSFER SWITCH AND ASSOC WIRING COULD RESULT IN LOSS OF POWER TO S-R EQUIPMENT. VERIFICATION OF THE MOD BY IDVP ON 830524-25 CONFIRMED THAT MODS ARE COMPLETE AND CONSISTANT W/ACCEPTED RESOLUTION. CLOSED ITEM. WAS PREVIOUSLY AN ER/A.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8018	821004	DMD	0	821004	SWEC	OIR	SWEC	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: VALVES FCV 37 & 38 OPERATOR AND CONTROL CIRCUITRY ARE DESIGNATED AS CLASS II BUT ARE LOCATED ON CLASS I PIPING. NO EVIDENCE WAS FOUND THAT THE VALVE OPERATORS OR CONTROL CIRCUITRY MEET CLASS I REQUIREMENTS.										
8018	821004	DMD	1	821005	SWEC	PPRR/OIP	TES	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: REDESIGNATE FLOW CONTROL VALVES FCV 37 & 38 AS DESIGN CLASS I ITEMS AND TO QUALIFY THEM AS SUCH.										
8018	821004	DMD	2	821105	TES	OIR	SWEC	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: DESIGN CLASSIFICATION OF VALVES FCV 37 & 38, LOCATED ON CL.I PIPING IS I&C CL.II. SINCE THEY MUST OPERATE TO ISOLATE A POSTULATED BREAK IN AUX. T.D. FEED PUMP(S), THEY SHOULD BE CL. I. AVAILABILITY OF THESE VALVES TO OPERATE NOT ASSURED UNLESS THE OPERATORS & CONTROL CIRCUITRY ARE CL. I										
8018	821004	DMD	3	821130	SWEC	PPRR/OIP	SWEC	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: PG&E TO JUSTIFY THE BASIS FOR CLASSIFYING VALVES FCV 37 & 38 AS CLASS II VERSUS CLASS IA. AS THEY ARE LOCATED IN CL. I PIPING AND CAN AFFECT OPERATION OF THE TURBINE DRIVEN AUXILIARY FEEDWATER PUMPS, THEY ARE CONSIDERED TO BE SAFETY RELATED COMPONENTS.										
8018	821004	DMD	4	821202	TES	PRR/OIP	PG&E	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: PG&E TO JUSTIFY THE BASIS FOR CLASSIFYING VALVES FCV 37 & 38 AS CLASS II VERSUS CLASS IA. AS THEY ARE LOCATED IN CL. I PIPING AND CAN AFFECT OPERATION OF THE TURBINE DRIVEN AUXILIARY FEEDWATER PUMPS, THEY ARE CONSIDERED TO BE SAFETY RELATED COMPONENTS.										
8018	821004	DMD	5	830302	TES	OIR	SWEC	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: SWEC TO REVIEW THE DCP COMPLETION SHEET, IDVP FILE 8018, SIGNED 830210, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8018	821004	DMD	6	830304	SWEC	PPRR/CI	TES	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: DCP COMP. SHT. DATED 830301 INDICATES FCV 37 & 38 CL. I VALVES BUT INSTRUMENT CL. II. DOCUMENTATION INDICATES, PER FSAR, OFF-SITE POWER NOT REQUIRED TO BE ASSUMED LOST AND NORMAL FW WOULD BE EXPECTED TO BE AVAILABLE. WHEN DCP REVIEWS ENVIR. QUALIFICATION OF EQUIP. AFTER 8001 AND LINE BREAK ANALYSES, CHECK OF ASSUMPTIONS USED FOR 8018 SHOULD BE MADE BY DCP.										
8018	821004	DMD	7	830309	TES	PRR/CI	TES	RRB		AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: DCP COMP. SHT. DATED 830301 INDICATES FCV 37 & 38 CL. I VALVES BUT INSTRUMENT CL. II. DOCUMENTATION INDICATES, PER FSAR, OFF-SITE POWER NOT REQUIRED TO BE ASSUMED LOST AND NORMAL FW WOULD BE EXPECTED TO BE AVAILABLE. WHEN DCP REVIEWS ENVIR. QUALIFICATION OF EQUIP. AFTER 8001 AND LINE BREAK ANALYSES, CHECK OF ASSUMPTIONS USED FOR 8018 SHOULD BE MADE BY DCP.										
8018	821004	DMD	8	830309	TES	CR	NONE	RRB	NO	AFS VALVES FCV 37&38 DESIGNATION & QUALIFICATION
COMMENT: VALVES FCV 37&38 ARE DESIGNATED AS CL. II BUT ARE LOC. ON CL. I PIPING. NO EVID. FOUND THAT THE VALVES MEET CL. I REQ. DCP COMP SHT 830301 IND. FCV37&38 CL. I VALVES BUT INSTR CL. II. DOC. INDICATES, PER FSAR, OFF-SITE POWER NOT REQ. TO BE ASSUMED LOST&NORMAL FW WOULD BE EXPECT TO BE AVAIL.DCP RVWS ENVIR QUAL OF EQUIP AFTER 8001,DCP TO CHECK ASUMP FOR 8018.C										
8019	821005	DMD	0	821005	SWEC	OIR	SWEC	LCN		AFW FIRE PROTECTION
COMMENT: FIRE ZONE 3-Q-2 (EL. 100' AUX.)CONTAINS BOTH MOTOR DRIVEN AFW PUMPS AND CONTROL CIRCUITRY (CND K8317) FOR FCV-95 WHICH IS REQUIRED FOR OPERATION OF TURBINE DRIVEN AFW PUMP. SINGLE FIRE IN THIS ZONE COULD ADVERSELY AFFECT OPERATION OF ALL THREE AFW PUMPS.										
8019	821005	DMD	1	821014	SWEC	PPRR/OIP	TES	LCN		AFW FIRE PROTECTION
COMMENT: PG&E SHOULD DETERMINE IF THE CONTROL CIRCUITRY IN CND K8317 IS REQUIRED FOR SAFE OPERATION OF FCV-95 AND IF A FIRE COULD PREVENT THE PROPER OPERATION OF FCV-95.										
8019	821005	DMD	2	821022	TES	PRR/OIP	PG&E	LCN		AFW FIRE PROTECTION
COMMENT: PG&E SHOULD DETERMINE IF THE CONTROL CIRCUITRY IN CND K8317 IS REQUIRED FOR SAFE OPERATION OF FCV-95 AND IF A FIRE COULD PREVENT THE PROPER OPERATION OF FCV-95.										
8019	821005	DMD	3	830111	TES	OIR	SWEC	LCN		AFW FIRE PROTECTION
COMMENT: FIRE ZONE 3-Q-2 (EL. 100'-0" IN AUX. BLDG.), CONTAINS BOTH MD AFW PUMPS AND CONTROL CIRCUITRY (CND K8317) FOR FCV-95 WHICH IS REQUIRED FOR OPERATION OF TD AFW PUMP. SWEC TO REVIEW DCP COMPLETION SHEET DATED 821216 AND AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8019	821005	DMD	4	830216	SWEC	PPRR/CI	TES	LCN		AFW FIRE PROTECTION
COMMENT: DCP RESOLUTION AND COMPLETION SHEETS FOR 8019 DATED 830124 AND PORTION OF DCP RESOLUTION AND COMPLETION SHEETS, DATED 830203, FOR 8047. MOST SEVERE EFFECT MIGHT BE FAILURE OF S.G. BLOWDOWN VALVES TO AUTO ISOLATION FROM TD PUMP START INDICATION. SWEC AGREES WITH ANALYSIS.										
8019	821005	DMD	5	830225	TES	PRR/CI	TES	LCN		AFW FIRE PROTECTION
COMMENT: BASED ON INFORMATION IN DCP RESOLUTION SHEET SIGNED 830124 AND COMPLETION SHEET SIGNED 830203, IDVP CONCLUDES THAT THE CONCERN HAS BEEN ADEQUATELY ADDRESSED.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8019	821005	DMD	6	830225	TES	CR	NONE	LCN	NO	AFW FIRE PROTECTION

COMMENT: SINGLE FIRE IN ZONE 3-Q-2 COULD ADVER AFFECT OPER OF ALL 3 AFW PUMPS, ENDANGERING SAFE SHUTDOWN OF PLANT.PG&E SHOULD DET IF THE CONTRL CIRCUITRY IN CND K8317 IS REQ FOR SAFE OPER OF FCV-95 & IF A FIRE COULD PREVENT THE PROPER OPER OF FCV-95. BASED ON INFO IN DCP RES SH(830124) & COMP SH 8047(830203) IDVP CONCLUDES THAT THE CONCERN HAS BEEN ADEQUATELY ADD. CI.

8020	821004	DMD	0	821004	SWEC	OIR		JWW		CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: PG&E HAS CONCLUDED THAT SINGLE FIRE IN ANY FIRE ZONE WILL NOT ADVERSELY AFFECT CRVP SYSTEM NEEDED FOR SAFE-SHUTDOWN. REVIEW OF ANALYSIS RAISED CONCERNS OF FIRE'S EFFECT ON THE CAPABILITY TO MAINTAIN CONTROL ROOM HABITABILITY.

8020	821004	DMD	1	821014	SWEC	PPRR/OIP	TES	JWW		CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: PG&E SHOULD IDENTIFY MODE OF OPERATION, EQUIPMENT, CIRCUIT ROUTINGS, AND POWER SUPPLIES NECESSARY TO MAINTAIN CR HABITABILITY. THE IMPACT OF A FIRE IN ANY ZONE CONTAINING THESE CIRCUITS SHOULD ALSO BE EVALUATED.

8020	821004	DMD	2	821029	TES	PRR/OIP	PG&E	JWW		CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: PG&E SHOULD IDENTIFY MODE OF OPERATION, EQUIPMENT, CIRCUIT ROUTINGS, AND POWER SUPPLIES NECESSARY TO MAINTAIN CR HABITABILITY. THE IMPACT OF A FIRE IN ANY ZONE CONTAINING THESE CIRCUITS SHOULD ALSO BE EVALUATED.

8020	821004	DMD	3	830310	TES	OIR		SWEC	JWW	CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: SWEC TO REVIEW DCP RESPONSE, SIGNED 830307 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8020	821004	DMD	4	830315	SWEC	PPRR/DEV	TES	JWW		CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: SWEC REVIEWED DCP 830307 COMP SHT AND AGREES W/SCOPE, METHODOLOGY, AND CONCLUSIONS. FOR FIRES OUTSIDE CR ENVELOPE, CRVP CAN CONTINUE TO OPERATE SUCH THAT CR HABITABILITY IS MAINTAINED. TO BE CLOSED AFTER FIELD CONFIRMATION OF CRVP CIRCUIT ROUTINGS AND SEPARATION COMMITMENTS MADE IN DCP ANALYSIS.

8020	821004	DMD	5	830323	TES	PRR/DEV	PG&E	JWW	NO	CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: IDVP REVIEWED DCP 830307 COMP SHT AND AGREES W/SCOPE, METHODOLOGY, AND CONCLUSIONS. FOR FIRES OUTSIDE CR ENVELOPE, CRVP CAN CONTINUE TO OPERATE SUCH THAT CR HABITABILITY IS MAINTAINED. TO BE CLOSED AFTER FIELD CONFIRMATION OF CRVP CIRCUIT ROUTINGS AND SEPARATION COMMITMENTS MADE IN DCP ANALYSIS.

8020	821004	DMD	6	830407	TES	CR	NONE	JWW	NO	CRVP SYS FIRE PROTECTION CABLE SEPARATION

COMMENT: CONCERN OF FIRE'S EFFECT ON CAPABILITY TO MAINTAIN CR HABITABILITY. IDVP REVIEWED DCP 830307 COMP SHT & AGREES W/SCOPE, METHODOLOGY, & CONCLUSIONS. FOR FIRES OUTSIDE CR ENVELOPE, CRVP CAN CONTINUE TO OPERATE SUCH THAT CR HABITABILITY IS MAINTAINED. TO BE CLOSED AFTER FIELD CONFIRMATION OF CRVP CIRCUIT ROUTINGS & SEPARATION COMMITMENTS MADE IN DCP ANAL.DEV

8021	821013	DMD	0	821013	SWEC	OIR		SWEC	JWW	AFW FIRE PROTECTION

COMMENT: FIELD INSPECTION OF APPROX. 50% OF ALL POWER/CONTRL CIRCUIT ROUTINGS ASSOCIATED W/AFW IDENTIFIED DISCREPENCIES BETWEEN AS-BUILT & PG&E REPORT (SIFPR). ADEQUATE SEPARATION OF POWER/CONTROL CIRCUITS FOR REDUNDANT TRAINS OF AFW MAY NOT BE PROVIDED. SINGLE FIRE COULD RENDER ALL THREE AFW PUMPS INOPERABLE (SEE EDI-8019).

8021	821013	DMD	1	821014	SWEC	PPRR/OIP	TES	JWW		AFW FIRE PROTECTION

COMMENT: PG&E SHOULD IDENTIFY ALL CIRCUIT NUMBERS ASSOC. W/AFW ACTIVE COMPONENTS AND DETERMINE THEIR ACTUAL FIELD ROUTINGS BY CONDUIT NUMBERS AND FIRE ZONE. ALSO USE ALL FIELD VERIFIED ROUTINGS TO PERFORM ANALYSIS DEMONSTRATING THAT SINGLE FIRE IN ANY ZONE WILL NOT PREVENT AFW SYSTEM FROM MEETING THE SIFPR COMMITMENTS.

8021	821013	DMD	2	821026	SWEC	PER/AB	TES	JWW		AFW FIRE PROTECTION

COMMENT: PG&E SHOULD IDENTIFY ALL CIRCUIT NUMBERS ASSOC. W/AFW ACTIVE COMPONENTS AND DETERMINE THEIR ACTUAL FIELD ROUTINGS BY CONDUIT NUMBERS AND FIRE ZONE. ALSO USE ALL FIELD VERIFIED ROUTINGS TO PERFORM ANALYSIS DEMONSTRATING THAT SINGLE FIRE IN ANY ZONE WILL NOT PREVENT AFW SYSTEM FROM MEETING THE SIFPR COMMITMENTS.

8021	821013	DMD	3	821112	TES	ER/AB	PG&E	JWW		AFW FIRE PROTECTION

COMMENT: FIELD INSP. OF APPROX. 50% AFW POWER/CONTROL CIRCUITS SHOWS DISCREPANCIES WITH SIFPR FIRE PROTECTION RPT. SINGLE FIRE COULD ADVERSELY AFFECT SAFE SHUTDOWN CAPABILITY. PER 821103 REVIEW COM. ACTION, PG&E TO DETERMINE ACTUAL ROUTING & REANALYZE SINGLE FIRE CRITERION & MODIFY CABLE ROUTINGS IF NECESSARY.

8021	821013	DMD	4	830316	TES	OIR		SWEC	JWW	AFW FIRE PROTECTION

COMMENT: SWEC TO REVIEW THE DCP RESPONSE, SIGNED 830202, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8021	821013	DMD	5	830318	SWEC	PPRR/DEV	TES	JWW		AFW FIRE PROTECTION

COMMENT: SWEC AGREES W/METHODOLOGY OF ANALYSIS PERFORMED BY DCP SHOWING FIRE IN ANY ONE ZONE WOULD NOT DISABLE AFW SYSTEM. FILE SHOULD NOT BE CLOSED UNTIL SATISFACTORY FIELD VERIFICATION AND CONFIRMATION OF AFW SYSTEM CURCUIT ROUTINGS AND SEPARATION COMMITMENTS NOT CHECKED IN ORIGINAL IDVP ANALYSIS AND DESCRIBED IN THE DCP ANALYSIS.

8021	821013	DMD	6	830323	TES	OIR		SWEC	JWW	AFW FIRE PROTECTION

COMMENT: IDVP AGREES W/METHODOLOGY OF ANALYSIS PERFORMED BY DCP SHOWING FIRE IN ANY ONE ZONE WOULD NOT DISABLE AFW SYSTEM. FILE SHOULD NOT BE CLOSED UNTIL SATISFACTORY FIELD VERIFICATION AND CONFIRMATION OF AFW SYSTEM CURCUIT ROUTINGS AND SEPARATION COMMITMENTS NOT CHECKED IN ORIGINAL IDVP ANALYSIS AND DESCRIBED IN THE DCP ANALYSIS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8021	821013	DMD	7	830413	SWEC	PPRR/OIP	TES	JWW		AFW FIRE PROTECTION
COMMENT: IDVP COMPLETED FIELD VERIFICATION & IDENTIFIED FIRE ZONE 3BB, EL. 100', BTWN COLUMN LINES K AND L, WHERE CIRCUITRY REQUIRED FOR OPERATION OF ALL THREE AFW TRAINS WAS LOCATED. POSTULATED FIRE COULD ADVERSELY AFFECT AUTOMATIC OPERATION OF AFW SYSTEM. DCP SHOULD PROVIDE IDVP W/EVALUATION OF ABOVE FIRE.										
8021	821013	DMD	8	830419	TES	PRR/OIP	PG&E	JWW		AFW FIRE PROTECTION
COMMENT: IDVP COMPLETED FIELD VERIFICATION & IDENTIFIED FIRE ZONE 3BB, EL. 100', BTWN COLUMN LINES K AND L, WHERE CIRCUITRY REQUIRED FOR OPERATION OF ALL THREE AFW TRAINS WAS LOCATED. POSTULATED FIRE COULD ADVERSELY AFFECT AUTOMATIC OPERATION OF AFW SYSTEM. DCP SHOULD PROVIDE IDVP W/EVALUATION OF ABOVE FIRE.										
8021	821013	DMD	9	830429	TES	OIR	SWEC	JWW		AFW FIRE PROTECTION
COMMENT: SWEC TO REVIEW DCP 830419 RESPONSE AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8021	821013	DMD	10	830428	SWEC	PER/C	TES	JWW		AFW FIRE PROTECTION
COMMENT: LOSS OF AUTOMATIC FUNCTION OF ALL 3 AFW TRAINS COULD ADVERSELY AFFECT SAFE SHUTDOWN OF DCNPP-1. DCP SHOULD REVISE FSAR FOR AS-BUILT AFW & CRVP CIRCUIT ROUTINGS AND EVALUATION OF EACH FIRE ZONE CONTAINING THIS CIRCUITRY. IDVP TO VERIFY FIELD MODS.										
8021	821013	DMD	11	830509	TES	ER/C	PG&E	JWW		AFW FIRE PROTECTION
COMMENT: LOSS OF AUTOMATIC FUNCTION OF ALL 3 AFW TRAINS COULD ADVERSELY AFFECT SAFE SHUTDOWN OF DCNPP-1. DCP SHOULD REVISE FSAR FOR AS-BUILT AFW & CRVP CIRCUIT ROUTINGS AND EVALUATION OF EACH FIRE ZONE CONTAINING THIS CIRCUITRY. IDVP TO VERIFY FIELD MODS.										
8021	821013	DMD	12	830601	TES	OIR	SWEC	JWW		AFW FIRE PROTECTION
COMMENT: ROUTING OF CIRCUIT TO FCV-95. LOSS OF AUTOMATIC FUNCTION OF ALL THREE AFW SYSTEM TRAINS COULD HAVE ADVERSE EFFECT ON SAFE SHUTDOWN CAPABILITY. SWEC TO MAKE RECOMMENDATION FOR DISPOSITION BASED ON FIELD VERIFICATION.										
8021	821013	DMD	13	830601	SWEC	PPRR/CI	TES	JWW	YES	AFW FIRE PROTECTION
COMMENT: DCP COMPLETION PACKAGE DATED 830527. MODS MADE TO CIRCUIT ROUTING TO AVOID DEGRADING REDUNDANCY OF SYSTEM BASED ON FIRE PROTECTION REVIEW. CONDUIT USED FIELD VERIFIED BY SWEC ON 830525. THIS ROUTING ESTABLISHED REQUIRED SEPARATION.										
8021	821013	DMD	14	830603	TES	PRR/CI	TES	JWW		AFW FIRE PROTECTION
COMMENT: MODS SHOWN ON DCO-EC-550, REV. 10 DATED 830314, PREVIOUSLY APPROVED BY IDVP, HAVE BEEN MADE TO FCV-95 CIRCUIT ROUTING TO ESTABLISH REQUIRED SEPARATION. CONDUIT USED WAS FIELD VERIFIED BY IDVP ON 830525.										
8021	821013	DMD	15	830603	TES	CR	NONE	JWW	YES	AFW FIRE PROTECTION
COMMENT: FIELD INSPECTION OF APPROX 50% OF AFW POWER/CONTROL CIRCUIT SHOWS DISCREPANCIES WITH SIFPR FIRE PROTECTION REPORT. LOSS OF AUTOMATIC FUNCTION OF ALL 3 AFW SYSTEM TRAINS COULD HAVE ADVERSE EFFECT ON SAFE SHUTDOWN CAPABILITY. MOD TO SYSTEM VERIFIED BY IDVP ON 830525. CLOSED ITEM. WAS AN ER/C.										
8022	821012	ICD	0	821012	SWEC	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: CIRCUIT BREAKERS ON E.S. SWITCHGEAR BUSES F,G,& H W/INTERRUPTING CAPABILITY OF 33.1KA SUBJECT TO SHORT CIRCUIT CURRENT DUTY OF 42.6KA. MOMENTARY CAPABILITY APPEARS INADEQUATE. SHORT CIRCUIT COULD DAMAGE SWITCHGEAR OR MAIN CIRCUIT BREAKER FEEDING THE BUS, RESULTING IN FORCED OUTAGE OF SAFETY-RELATED BUSES F, G, AND H.										
8022	821012	ICD	1	821014	SWEC	PER/AB	TES	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: PG&E TO MODIFY ELECTRICAL SYSTEM OR EQUIPMENT TO REDUCE SHORT CIRCUIT CURRENTS.										
8022	821012	ICD	2	821109	TES	ER/B	PG&E	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: SHORT-CIRCUITS OF 4.16KV SAFETY-RELATED SYSTEMS HIGHER THAN CIRCUIT BREAKER RATINGS. SHORT CIRCUIT FAILURE OF CIRCUIT BREAKER COULD DAMAGE SWITCHGEAR AND RENDER IT INCAPABLE OF PERFORMING ITS FUNCTION. PER 821103 REVIEW COM.,PG&E SHOULD REANALYZE SHORT-CIRCUIT CURRENTS AND PRESENT RESULTS AND ASSUMPTIONS FOR SWEC REVIEW.										
8022	821012	ICD	3	830222	TES	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET, REV. 1, SIGNED 830207 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8022	821012	ICD	4	830310	SWEC	PER/C	TES	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: SWEC REVIEWED DCP RES. PACKAGE SIGNED 830302 W/ADDED GE TEST DATA. 830225 GE LETTER TO PG&E INDICATES BREAKERS CAN INTERRUPT CALC SHORT CIRCUIT CURRENT EVEN THOUGH THEY EXCEED RATINGS. DOWNGRADED FROM ER/B.										
8022	821012	ICD	5	830310	TES	ER/C	PG&E	JWW		ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: 830302 RES PACKAGE WITH GE LETTER AND TEST DATA INDICATES BREAKERS CAN INTERRUPT CALCULATED SHORT CIRCUIT CURRENTS EVEN THOUGH THEY EXCEED NAMEPLATE RATING. HOWEVER, GENERIC CONCERN ARISES OF OTHER S-R BREAKERS. DOWNGRADED FROM ER/B TO MORE ACCURATELY REFLECT CONCERN.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
8022	821012	ICD	6	830310	TES	CR	NONE	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: CIRCUIT BREAKERS SUBJECT TO SHORT CIRCUIT. 830302 RES PACKAGE WITH GE LETTER AND TEST DATA INDICATES BREAKERS CAN INTERRUPT CALCULATED SHORT CIRCUIT CURRENTS EVEN THOUGH THEY EXCEED NAMEPLATE RATING. HOWEVER, GENERIC CONCERN ARISES OF OTHER S-R BREAKERS. DOWNGRADED FROM ER/B TO ER/C TO REFLECT THE SIGNIFICANCE OF THE CONCERN. ALSO IN DRAFT ITR 239.									
8022	821012	ICD	7	830407	TES	OIR	SWEC	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: CALC WORST CASE SHORT CIRCUIT CURRENT EXCEEDS BREAKER NAMEPLATE RATING. CONCERN OF OTHER S-R BREAKERS SUBJECT TO SHORT CIRCUIT DUTY IN EXCESS OF NAMEPLATE RATINGS. POSSIBLE FORCED OUTAGE OF S-R BUSES. RE-OPENED FOR SWEC TO REVIEW OTHER S-R BREAKERS FOR THIS CONDITION AND PROVIDE RECOMMENDATION.										
8022	821012	ICD	8	830407	SWEC	PPRR/DEV	TES	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: DCP 830302 RES & COMP SHEETS ADDED TEST DATA ON 4160V BREAKERS AND RATINGS OF 480V BREAKERS AND SHORT CIRCUIT CURRENT CALCS. CONFIRMED SUITABILITY OF 4.16KV SWITCHGEAR AND 480V LOAD CENTER CIRCUIT BREAKERS TO INTERRUPT AVAILABLE SHORT CIRCUIT CURRENTS. DOWNGRADED FROM ER/C TO DEVIATION.										
8022	821012	ICD	9	830412	TES	PRR/DEV	PG&E	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: DCP PROVIDED DOCUMENTATION CONFIRMING SUITABILITY OF CIRCUIT BREAKERS. C-B WHOSE ADEQUACY OF INTERRUPTING CAPABILITY NOT INDICATED ON NAMEPLATE RATING (4160 V), BUT CONFIRMED BY MANUF. TEST. ADDED TEST DATA ON 4160V BREAKERS AND 480V BREAKER RATINGS FOUND SATISFACTORY. DOWNGRADED FROM ER/C TO DEVIATION.										
8022	821012	ICD	10	830412	TES	CR	NONE	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV METAL-CLAD SWITCHGEAR
COMMENT: CIRCUIT BREAKS SUBJECT TO SHORT CIRCUIT. DCP PROVIDED DOCUMENTATION CONFIRMING SUITABILITY OF CIRCUIT BREAKERS. C-B ADEQUACY OF INTERRUPTING CAPABILITY NOT INDICATED ON NAMEPLATE RATING (4160 V), BUT CONFIRMED BY MANUF. TEST. DOWNGRADED FROM ER/C TO DEV.										
8023	821012	ICD	0	821012	SWEC	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: AFTER LOCA, VOLTAGES ON E.S. 480V SYSTEM BUSES MAY BE .87 PER UNIT OF 480V OR 90% OF 460V MOTOR NAMEPLATE. ADDING VOLTAGE DROP IN MOTOR LEADS WILL RESULT IN VOLTAGES BELOW 90% OF MOTOR NAMEPLATE NECESSARY FOR CONTINUOUS OPERATION. THIS MAY OVERHEAT MOTORS CAUSING PREMATURE FAILURE.										
8023	821012	ICD	1	821014	SWEC	PER/AB	TES	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: MORE DETAILED STUDIES BY PG&E MAY REDUCE ESTIMATES OF EXPECTED 480V TRANSFORMER LOADS AND/OR PERMIT OPERATION ON OTHER TRANSFORMER TAPS, THEREBY IMPROVING THE VOLTAGE LEVELS.										
8023	821012	ICD	2	821109	TES	ER/B	PG&E	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: AFTER LOCA, STEADY STATE VOLTAGE @ 460V & 480V SAFETY-RELATED MOTOR TERMINALS WILL BE LESS THAN 90% OF RELATED MOTOR VOLTAGE. VIOLATION OF NEMA MG-1. MOTORS MAY OVERHEAT CAUSING PREMATURE FAILURE. PER 821103 REVIEW COM., PG&E SHOULD REANALYZE MOTOR TERMINAL VOLTAGES.										
8023	821012	ICD	3	830211	TES	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET SIGNED 830131 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8023	821012	ICD	4	830311	SWEC	PPRR/DEV	TES	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830103 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8023	821012	ICD	5	830316	TES	PRR/DEV	TES	JWW		ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830103 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8023	821012	ICD	6	830316	TES	CR	NONE	JWW	NO	ENGINEERED SAFEGUARDS 480V SYSTEMS-LOCA CONDITIONS
COMMENT: LOWER VOLTAGE MAY CAUSE OVERHEATING. SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830103 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV & LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B TO A DEVIATION.										
8024	821012	ICD	0	821012	SWEC	OIR	SWEC	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: STARTING LARGE MOTORS EITHER ON 12KV OR 4.16KV SYS MAY CAUSE TRANSIENT VOLTAGE DIP OF SUFFICIENT MAGNITUDE (68 TO 70% OF 480V) & DURATION TO ALLOW DROP OUT OF 480V MOTOR STARTER CONTACTS. ALSO, WHEN STARTING 300HP CCF MOTOR, VOLTAGE AT MOTOR TERMINAL 65% OF 480V OR 68% OF NAMEPLATE. INADVERTENT TRIPPING OF E.S. MOTORS MAY CAUSE OPERATING DIFFICULTIES.										
8024	821012	ICD	1	821014	SWEC	PER/AB	TES	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: MORE DETAILED STUDIES BY PG&E MAY REDUCE LOAD ON SYSTEM OR SHOW THAT VOLTAGE TRANSIENTS ARE ACCEPTABLE.										
8024	821012	ICD	2	821109	TES	ER/B	PG&E	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: DROP-OUT OF 480V STARTER CONTACTS POSSIBLE WHEN STARTING LARGE MOTORS WITH POWER SUPPLIED FROM 230KV START-UP SOURCE. POSSIBLE INADVERTENT TRIPPING OF ENGINEERED SAFEGUARDS MOTOR. PER 821103 REVIEW COM.,PG&E SHOULD REANALYZE TRANSIENT LOADS AND BASIC ASSUMPTIONS TO ENSURE EQUIPMENT ACCEPTABILITY.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8024	821012	ICD	3	830210	TES	OIR	SWEC	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET, IDVP FILE NO. 8024, REVISION 2, SIGNED 830131 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITON.										
8024	821012	ICD	4	830311	SWEC	PPRR/DEV	TES	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8024	821012	ICD	5	830316	TES	PRR/DEV	TES	JWW		ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8024	821012	ICD	6	830316	TES	CR	NONE	JWW	NO	ENG SAFEGUARDS 480V SYSTEMS-LARGE MOTOR STARTING
COMMENT: 480V MOTOR STARTERS MAY DROP OUT. SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 & FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B TO DEVIATION.										
8025	821012	ICD	0	821012	SWEC	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: AFTER LOCA, TRANSFER TO 230KV START-UP SOURCE OF ALL 4KV MOTORS MAY DEPRESS 4.16KV & 480V SYS VOLTAGES EXCESSIVELY. VOLT ON E.S. SYS MAY BE DOWN TO 70% OF 4.0KV MOTOR NAMEPLATE & 67% OF 460V NAMEPLATE. EXTENDED OPERATION AT VERY LOW VOLT MAY DAMAGE MOTORS BEFORE UNDERVOLTAGE RELAYS TRIP. MAY TRANSFER TO DIESEL GEN. EVEN IF 230KV START-UP SOURCE IS AVAILABLE.										
8025	821012	ICD	1	821014	SWEC	PER/AB	TES	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: REVIEW BY PG&E OF UNDER-VOLTAGE TRANSFER AND CONTROL SCHEMES TO PROVIDE COORDINATED SEQUENCING OF MOTOR STARTS.										
8025	821012	ICD	2	821109	TES	ER/B	PG&E	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: AUTO TRANSFER OF ALL 4KV MOTORS TO 230KV START-UP SOURCE AFTER LOCA WILL RESULT IN LOW V. CONDITIONS AT 4KV AND 460V SAFETY-RELATED MOTOR TERMINALS. EXTENDED OPERATION AT VERY LOW V. MAY DAMAGE MOTORS BEFORE UNDERVOLTAGE RELAYS TRIP. PER 821103 REVIEW COM.,PG&E SHOULD REANALYZE 4KV SYSTEM BUS VOLTAGE TRANSIENTS TO ENSURE EQUIP.ACCEPTANCE.										
8025	821012	ICD	3	830211	TES	OIR	SWEC	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET SIGNED 830131 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8025	821012	ICD	4	830311	SWEC	PPRR/DEV	TES	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8025	821012	ICD	5	830316	TES	PRR/DEV	TES	JWW		ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B.										
8025	821012	ICD	6	830316	TES	CR	NONE	JWW	NO	ENGINEERED SAFEGUARDS 4.16KV AND 480V SYSTEMS
COMMENT: LOW VOLTAGE MAY DAMAGE MOTORS AND CAUSE TRIP. SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830202 AND FOUND IT ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD CENTER TRANSFORMER TAP ON BUSES 1F, 1G, 1H, TO 4056V IN ORDER TO COMPENATE FOR SYSTEM VOLTAGE DROPS. DOWNGRADED FROM ER/B TO DEVIATION.										
8026	821012	ICD	0	821012	SWEC	OIR	SWEC	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: WITH AUX SYS. AT FULL LOAD & 230KV START UP SOURCE OPERATING, VOLTAGES LEVELS OPERATING ON E.S. 480V SYS. CALCULATED AS 84.7%. VOLTAGES AT MOTOR TERMINALS ARE 82.5% OF 480V OR 86% OF 460V MOTOR NAMEPLATE. VOLTAGE LOWER THAN 90% CONSIDERED NECESSARY FOR CONTINUOUS OPERATION MAY RESULT IN OVERHEATING CAUSING PREMATURE FAILURE.										
8026	821012	ICD	1	821014	SWEC	PER/AB	TES	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: MORE DETAILED STUDIES BY PG&E MAY REDUCE ESTIMATES OF EXPECTED 480V TRANSFORMER LOADS AND/OR PERMIT OPERATION ON OTHER TRANSFORMER TAPS, THEREBY IMPROVING BUS VOLTAGE LEVELS.										
8026	821012	ICD	2	821109	TES	ER/B	PG&E	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: V.AT 480V MOTOR TERMINALS WILL BE BELOW MIN.SPECIFIED BY NEMA MG-1 DURING NORMAL,STEADY STATE,FULL LOAD OPERATION W/230KV SUPPLYING POWER TO STATION AUX. MOTORS MAY OVERHEAT CAUSING PREMATURE FAILURE. PER 821103 REVIEW COM.,PG&E SHOULD REANALYZE CONDITIONS STATED AND PRESENT RESULTS WHICH ENSURE EQUIPMENT ACCEPTABILITY.										
8026	821012	ICD	3	830222	TES	OIR	SWEC	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET DATED 830131 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8026	821012	ICD	4	830311	SWEC	PPRR/DEV	TES	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: SWEC HAS REVIEWED PG&E DOCUMENTATION AND IT'S ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD TRANSFORMER TAP ON BUSES 1F, 1G, AND 1H TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM VOLTAGE DROPS. ALSO, ADJUST 230KV LINE VOLTAGE BTWN 224V AND 227.5KV WHEN PLANT LOAD IS LIGHT. DOWNGRADED FROM ER/B.										
8026	821012	ICD	5	830316	TES	PRR/DEV	TES	JWW		ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: SWEC HAS REVIEWED PG&E DOCUMENTATION AND IT'S ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD TRANSFORMER TAP ON BUSES 1F, 1G, AND 1H TO 4056V IN ORDER TO COMPENSATE FOR SYSTEM V DROPS. ALSO, ADJUST 230KV LINE VOLTAGE BTWN 224V AND 227.5KV WHEN PLANT LOAD IS LIGHT. DOWNGRADED FROM ER/B.										
8026	821012	ICD	6	830316	TES	CR	NONE	JWW	NO	ENG SAFEGUARDS 480V SYS-NORMAL FULL-LOAD CONDITION
COMMENT: LOWER VOLTAGE MAY CAUSE OVERHEATING AND FAILURE. SWEC HAS REVIEWED PG&E DOCUMENTATION AND IT'S ACCEPTABLE BASED ON PG&E TO ADJUST 230KV START-UP TRANSFORMER TAP TO 215KV AND LOAD TRANSFORMER TAP ON BUSES 1F, 1G, AND 1H TO 4056V IN ORDER TO COMPENSATE FOR SYS V DROPS. ALSO, ADJUST 230KV LINE V BTWN 224V AND 227.5KV WHEN PLANT LOAD IS LIGHT. DWNGRD ER/B TO DEV										
8027	821013	FID	0	821013	SWEC	DIR	SWEC	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: EXCESSIVE CONDENSATE MAY BE PRESENT DURING OPERATION & WOULD CONTRIBUTE TO TURBINE COLD START DIFFICULTIES INCLUDING OVERSPEED TRIP. ADD. STEAM TRAP IDENTIFIED IN DC-1-G-M-1017. PIPING SCHEMATIC REVISED BUT PIPING DWG. & FIELD REMAIN UNCHANGED. ADD MODS NOT FIELD INSTALLED. EXCESS CONDENSATE COULD POTENTIALLY DAMAGE COMPONENTS DUE TO STEAM/WATER HAMMER										
8027	821013	FID	1	821014	SWEC	PPRR/OIP	TES	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: PG&E TO PROVIDE DOCUMENTATION WHY STEAM TRAP 135 WAS NOT INSTALLED. JUSTIFICATION SHOULD ADDRESS ABILITY OF AFW TURBINE TO OPERATE PROPERLY DURING COLD START AND POTENTIAL WATER HAMMER PREVENTION.										
8027	821013	FID	2	821029	TES	PRR/OIP	PG&E	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: PG&E SHOULD PROVIDE DOCUMENTATION JUSTIFYING WHY STEAM TRAP 135 WAS NOT INSTALLED. JUSTIFICATION SHOULD ADDRESS THE ABILITY OF THE AFW TURBINE TO OPERATE PROPERLY DURING COLD START AND POTENTIAL WATER HAMMER PREVENTION.										
8027	821013	FID	3	830113	TES	OIR	SWEC	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: TES REQUESTS SWEC TO ISSUE A POTENTIAL PROGRAM RESOLUTION REPORT TO PROCESS THIS FILE AS A CLOSED ITEM.										
8027	821013	FID	4	830209	SWEC	PPRR/CI	TES	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: SWEC HAS REVIEWED TEST RESULTS MADE W/OUT STEAM TRAP AND FINDS THEM ACCEPTABLE. NO TECHNICAL CONCERN NOW EXISTS DUE TO LACK OF STEAM TRAP 135. HOWEVER, RFR SHOULD REVIEW DESIGN CHANGE PROCEDURES TO DETERMINE IF GENERIC CONCERNS EXISTS BETWEEN APPROVED SAFETY-RELATED MODS OR DOCUMENTS AND EXISTING FIELD INSTALLATION.										
8027	821013	FID	5	830211	TES	PRR/CI	TES	LCN		AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: THE IDVP HAS REVIEWED THE TEST RESULTS MADE WITHOUT THE STEAM TRAP AND FINDS THEM ACCEPTABLE. NO TECHNICAL CONCERN NOW EXISTS BECAUSE OF THE LACK OF STEAM TRAP 135.										
8027	821013	FID	6	830211	TES	CR	NONE	LCN	NO	AFWS STEAM SUPPLY TO THE AFW TURBINE
COMMENT: STEAM TRAP WAS SUPPOSED TO BE ADDED TO RELIEVE EXCESS CONDENSATE CONTRIBUTING TO TURBINE COLD START DIFFICULTIES. IDVP REVIEWED TEST RESULTS MADE W/OUT STEAM TRAP AND FOUND THEM ACCEPTABLE. NO TECHNICAL CONCERN NOW EXISTS BECAUSE OF LACK OF STEAM TRAP. CLOSED ITEM.										
8028	821014	DMD	0	821014	SWEC	DIR	SWEC	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: FSAR APP. 3.6, REF. 5 ADDRESSES HIGHENERGY LINE CRACKS IN LINE 760. IT DOES NOT ADDRESS EFFECT ON AFW PUMP MOTORS LOCATED APPROX. 4' ABOVE LINE. ELEVATED TEMPS DUE TO POSTULATED CRACK MAY CAUSE FAILURE OF THE TWO MOTORS.										
8028	821014	DMD	1	821014	SWEC	PPRR/OIP	TES	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: DUE TO CLOSE PROXIMITY OF MOTORS, REFLECTION OF STEAM JET FROM FLOOR, FLOWRATE AND TEMP. OF MAIN STEAM, AND SENSITIVITY OF MOTORS TO HIGH ENVIRONMENTAL TEMPS, THE EFFECTS OF CRACKS IN LINE #760 ON THE AFW PUMP MOTORS SHOULD BE EVALUATED.										
8028	821014	DMD	2	821030	TES	PRR/OIP	PG&E	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: EVALUATION OF THE EFFECTS OF CRACKS IN LINE 760 ON THE AFW PUMP MOTORS SHOULD BE MADE TO DETERMINE IF LICENSING COMMITMENTS ARE MET. CONSIDERATION MUST BE GIVEN TO BOTH PUMPS 1-2 AND 1-3 BEING ENVELOPED BY THE POSTULATED CRACK.										
8028	821014	DMD	3	830111	TES	OIR	SWEC	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830104 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8028	821014	DMD	4	830208	SWEC	PPRR/DEV	TES	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: PG&E RESPONSE TO THIS EOI IS ADEQUATE. PLANT OPERATING PROCEDURES L-2 AND L-5 RESULT IN LINE BREAK 760 FALLING OUTSIDE SCOPE OF GIAMBUSO LETTER RE. HELB AND HELC. DCP HAS INITIATED FSAR CHANGES (IOM BSL/GHM DATED 830124) TO CORRECT INCONSISTENCIES. NO FURTHER VERIFICATION REQUIRED.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8028	821014	DMD	5	830309	TES	PRR/DEV	TES	LCN		AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: DCP COMPLETION SHEET DATED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE STATING NO PHYSICAL MODS. REQUIRES FSAR CHANGES TO CORRECT INCONSISTENCIES REGARDING APPLICABILITY OF HELB AND HELC TO LINE 760. NO ADDITIONAL DCP ACTION REQUIRED.										
8028	821014	DMD	6	830309	TES	CR	NONE	LCN	NO	AFW SYS-FAILURE BY POSTULATED PIPE CRACK
COMMENT: FSAR APP 3.6,REF 5 ADDRESS HELC IN LINE 760.IT DOES NOT ADDRESS EFFECT ON AFW PUMP MOTORS LOCATED APPROX 4' ABOVE LINE. ELEV TEMPS DUE TO PC MAY CAUSE FAILURE OF THE TWO MOTORS. DCP COMP(830303) TRANS PSRC APPROVAL OF FSAR UPDATE CHG NOTICE STATING NO PHY MODS. REQUIRES FSAR CHG TO CORRECT INCONSIST REGARDING APPL OF HELB & HELC TO LINE 760. NO DCP ACTION.DEV										
8029	821014	DMD	0	821014	SWEC	OIR	SWEC	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: PT-434 NOT IDENT. IN FSAR, APP 3.6, REF 5. EVAL. SHOULD HAVE BEEN DONE ON EFFECTS FROM 760 CRACK BREAK ON PT-434 & OF SINGLE CRACK ON PT-434 & PUMP 1-3 SIMULTANEOUSLY. POTENTIAL FAILURE OF LCV113 & 115. POSSIBLE BLOWDOWN THRU CRACK COULD BE ISOLATED BUT RENDER PUMP 1-1 INOPERABLE. POSTULATED CRACK IN 760 & SINGLE FAILURE COULD RESULT IN LOSS OF AFW FLOW.										
8029	821014	DMD	1	821014	SWEC	PPRR/OIP	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: AN EVALUATION SHOULD BE MADE OF THE POSTULATED PIPE CRACK BREAK LOCATIONS ON LINE #760 TO ASSURE THAT LICENSING COMMITMENTS ARE MET.										
8029	821014	DMD	2	821030	TES	PRR/OIP	PG&E	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: AN EVALUATION SHOULD BE MADE OF THE EFFECTS OF A CRACK BREAK FROM LINE #760 ON PT-434, AND OF THE EFFECTS OF A SINGLE CRACK FROM LINE #760 ON PT-434 AND PUMP 1-3 SIMULTANEOUSLY, TO DETERMINE IF LICENSING COMMITMENTS ARE MET.										
8029	821014	DMD	3	830113	TES	OIR	SWEC	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830104 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8029	821014	DMD	4	830208	SWEC	PPRR/DEV	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: PG&E RESPONSE TO THIS EOI IS ADEQUATE. PLANT OPERATING PROCEDURES L-2 AND L-5 RESULT IN LINE BREAK 760 FALLING OUTSIDE SCOPE OF GIAMBUSO LETTER RE. HELB AND C. DCP HAS INITIATED FSAR CHANGES (IOM BSL/GHM DATED 830124) TO CORRECT INCONSISTENCIES. NO FURTHER VERIFICATION REQUIRED.										
8029	821014	DMD	5	830309	TES	PRR/DEV	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: DCP COMP SHT DATED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. REQUIRES FSAR CHANGES TO CORRECT INCONSISTENCIES REGARDING APPLICABILITY OF HELB AND HELC TO LINE 760. NO ADDITIONAL DCP ACTION.										
8029	821014	DMD	6	830309	TES	CR	NONE	LCN	NO	AFW SYS-PIPING CRACK ANALYSIS, PT-434
COMMENT: PT-434 NOT ID IN FSAR, APP 3.6, REF 5. EVALUATION SHOULD'VE BEEN DONE ON EFFECTS FROM 760 CRACK BREAK ON PT-434 & ON PT-434 AND PUMP 1-3 SIMULTANEOUSLY. POTENTIAL FAILURE OF LCV 113 & 115. DCP COMP SHT 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHG NOTICE. REQUIRES FSAR CHG TO CORRECT INCONSIST REGARDING APPL OF HELB & HELC TO LINE 760. DEV.										
8030	821014	DMD	0	821014	SWEC	OIR	SWEC	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: PT-433 NOT IDENTIFIED IN FSAR, APP 3.6, REF 5. EVALUATION SHOULD HAVE BEEN MADE OF LINE 760 CRACK BREAK ON THIS TRANSMITTER. JET COULD ENVELOPE PT-433 & RESULT IN POTENTIAL FAILURE OF LCV110 & 111. ISOLATION OF BLOWDOWN COULD RENDER TURBINE DRIVEN PUMP 1-1 INOPERABLE. POSTULATE CRACK IN LINE 760 & SINGLE FAILURE COULD RESULT IN LOSS OF AFW FLOW										
8030	821014	DMD	1	821014	SWEC	PPRR/OIP	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: AN EVALUATION SHOULD BE MADE OF THE POSTULATED PIPE CRACK BREAK LOCATIONS ON LINE #760 TO ASSURE THAT LICENSING COMMITMENTS ARE MET.										
8030	821014	DMD	2	821029	TES	PRR/OIP	PG&E	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: AN EVALUATION SHOULD BE MADE OF THE EFFECTS OF A CRACK BREAK FROM LINE #760 ON PT-433 TO DETERMINE IF LICENSING COMMITMENTS ARE MET.										
8030	821014	DMD	3	830113	TES	OIR	SWEC	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830104 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8030	821014	DMD	4	830208	SWEC	PPRR/DEV	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: PG&E RESPONSE TO THIS EOI IS ADEQUATE. PLANT OPERATING PROCEDURES L-2 AND L-5 RESULT IN LINE BREAK 760 FALLING OUTSIDE SCOPE OF GIAMBUSO LETTER RE. HELB AND HELC. DCP HAS INITIATED FSAR CHANGES (IOM BSL/GHM DATED 830124) TO CORRECT INCONSISTENCIES. NO FURTHER VERIFICATION REQUIRED.										
8030	821014	DMD	5	830309	TES	PRR/DEV	TES	LCN		AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: DCP COMP SHT DATED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. REQUIRES FSAR CHANGES TO CORRECT INCONSISTENCIES REGARDING APPLICABILITY OF HELB AND HELC TO LINE 760. NO ADDITIONAL DCP ACTION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
8030	821014	DMD	6	830309	TES	CR	NONE LCN		NO	AFW SYS-PIPING CRACK ANALYSIS, PT-433
COMMENT: PT-433 NOT ID IN FSAR. EVALUATION SHOULD HAVE BEEN MADE OF LINE 760 CRACK BREAK ON THIS. POTENTIAL FAILURE OF LCV 110 & 111. DCP COMP SHT DATED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. REQUIRES FSAR CHANGES TO CORRECT INCONSISTENCIES REGARDING APPLICABILITY OF HELB AND HELC TO LINE 760. NO ADDITIONAL DCP ACTION. DEVIATION.									
8031	821014	DMD	0	821014	SWEC	OIR	SWEC LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: TARGETS NOT LISTED IN FSAR, APP 3.6, REF 5. EVALUATION SHOULD HAVE BEEN MADE OF PIPE CRACK EFFECT ON THESE TARGETS. BREAK ON LINE 594 DOWNSTREAM OF CHECK VALVE & FCV38 COULD RESULT IN POTENTIAL FAILURE OF VALVES. ISO. OF BLOWDOWN THRU CRACK COULD RENDER TURBINE PUMP INOPERABLE. POSTULATED CRACK IN 594 & SINGLE FAILURE COULD RESULT IN LOSS OF AFW FLOW.									
8031	821014	DMD	1	821014	SWEC	PPRR/OIP	TES LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: AN EVALUATION SHOULD BE MADE OF THE POSTULATED PIPE CRACK BREAK LOCATIONS ON LINE #594 TO ASSURE THAT LICENSING COMMITMENTS ARE MET.										
8031	821014	DMD	2	821030	TES	PRR/OIP	PG&E LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: AN EVALUATION SHOULD BE MADE OF THE EFFECT OF A CRACK BREAK FROM LINE #594 DOWNSTREAM OF THE CHECK VALVE AND FCV 38, ENVELOPING POM-113 AND POM-115.										
8031	821014	DMD	3	830113	TES	OIR	SWEC LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830104 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8031	821014	DMD	4	830222	SWEC	PPRR/CI	TES LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: FILE OPENED TO DETERMINE SAFETY GRADE CLASSIFICATION AND EQUIPMENT QUALIFICATION OF POM'S 113 AND 115. 8001 RESOLUTION WILL DETERMINE THE TEMP DEVICES EXPOSED TO. DCP STILL REQUIRED TO MAKE LICENSING CHANGE FOR ALT. METHOD OF TEMP CALC.										
8031	821014	DMD	5	830309	TES	PRR/CI	TES LCN			AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. LICENSING CHANGE PROVIDES FOR ALTERNATIVE METHOD OF TEMP CALCULATION.										
8031	821014	DMD	6	830309	TES	CR	NONE LCN		NO	AFW SYS-PIPING CRACK ANALYSIS, LCV113 & 115
COMMENT: TARGETS NOT LISTED FSAR OF PIPE CRACK EFFECTS OF LINE 594 DOWN STREAM OF CHECK VALVE AND FCV 38. DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. LICENSING CHANGE PROVIDES FOR ALTERNATIVE METHOD OF TEMP CALCULATION.										
8032	821013	OD	0	821013	SWEC	OIR	SWEC RRB			AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: ISOLATION OF CR CIRCUITRY FROM HOT SHUTDOWN PANEL SUBSEQUENT TO TRANSFER OF CONTROL TO "LOCAL" AT HOT SHUTDOWN PANEL. ON OFF CONTROL SWITCH W/ASSOC. WIRING ESSENTIAL TO PROVIDING POWER TO MOTORS OF LEVEL CONTROL VALVES IS SUBJECT TO LOSS BY CR FIRE. LOSS OF POWER TO LEVEL CONTROL VALVE ACTUATOR MOTOR WILL PREVENT AUTOMATIC & REMOTE-MANUAL OPERATION OF VALVES.										
8032	821013	OD	1	821013	SWEC	PER/AB	TES RRB			AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: CONTROL WIRING TO BE MODIFIED TO CONFORM TO PG&E COMMITMENT MADE TO THE NRC FOR CIRCUIT INDEPENDENCE FROM THE MAIN CR AT THE HOT SHUTDOWN PANEL.										
8032	821013	OD	2	821118	TES	ER/A	PG&E RRB			AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: FIRE IN CR COULD PREVENT AUTOMATIC CONTROL AND MANUAL CONTROL OF LCV'S AT SAFE SHUTDOWN PANEL. POWER TO ENERGIZE VALVE MOTOR STARTERS TO SUPPLY ELECTROHYDRAULIC ACTUATORS WOULD NOT BE AVAILABLE AT SHUTDOWN PANEL. PER 821115 REVIEW COMMITTEE, PG&E SHOULD MODIFY WIRING TO MEET CIRCUIT INDEPENDENCE REQUIREMENTS.										
8032	821013	OD	3	830225	TES	OIR	SWEC RRB		YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: SWEC TO REVIEW PG&E RESOLUTION SHEET AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8032	821013	OD	4	830308	SWEC	PER/C	TES RRB		YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: DCP RESPONSE IDENTIFIED DISCREPANCY BTWN FSAR COMMITMENT AND ACTUAL DESIGN. PROPOSED MOD TO ELECTRICAL CONTROL CIRCUITS WILL PROVIDE ADEQUATE ISOLATION OF CIRCUITRY FROM POTENTIAL EFFECTS OF CR FIRE. SWEC TO FIELD VERIFY MOD. DOWNGRADED FROM ER/A TO ER/C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										
8032	821013	OD	5	830309	TES	ER/C	PG&E RRB		YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: FIRE IN CR COULD PREVENT AUTOMATIC AND MANUAL CONTROL OF LCV'S AT SAFE SHUTDOWN PANEL. DCP RES. SHT. DATED 830207 IF DISCREPANCY BTWN FSAR & ACTUAL DESIGN PROPOSED MOD TO ELECT. CIRCUITS WILL PROVIDE ISOLATION OF CIRCUITRY FROM POTENTIAL EFFECT OF CR FIRE. DOWNGRADED FROM ER/A TO ER/C BECAUSE LOCAL MANUAL CONTROL ALWAYS POSSIBLE.										
8032	821013	OD	6	830601	TES	OIR	SWEC RRB		YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115
COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET DATED 830506 AS VERIFIED BY SITE INSPECTION AND PROVIDE A RECOMMENDATION FO. FUTURE DISPOSITION.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8032	821013	OD	7	830601	SWEC	PPRR/CI	TES	RRB	YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115

COMMENT: PG&E COMPLETION PACKAGE DATED 830506. FIELD MODS VERIFIED BY SWEC ON 830525 AND FOUND TO BE CONSISTENT W/COMPLETION PACKAGE AND PG&E RESOLUTION SHEET (DCVP-SWEC-316).

8032	821013	OD	8	830603	TES	PRR/CI	TES	RRB	YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115

COMMENT: MOD DESCRIBED IN PG&E RES. SHEET DATED 830207 WERE REVIEWED AND FOUND SATISFACTORY. ACTUAL MODS ARE COMPLETE AND VERIFIED BY SITE INSPECTION ON 830524-25 BY IDVP AND FOUND TO BE SATISFACTORY.

8032	821013	OD	9	830603	TES	CR	NONE	RRB	YES	AFW-LEVEL CONTROL VALUES LCV110,111,113, & 115

COMMENT: FIRE IN CR COULD PREVENT AUTOMATIC AND MANUAL CONTROL OF LCV'S AT SAFE SHUTDOWN PANEL. PROPOSED MOD IN PG&E 830207 RESOLUTION SHEET FIELD VERIFIED BY IDVP ON 830524-25 AND FOUND TO BE SATISFACTORY. CLOSED ITEM. WAS AN ER/C.

8033	821014	DMD	0	821014	SWEC	OIR	SWEC	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: NONCONSERVATIVE METHOD USED BY NSC TO MODEL STEAM GENERATORS. SAFETY-RELATED EQUIP OUTSIDE CONTAINMENT MAY BE EXPOSED TO A MORE SEVERE TEMP ENVIRONMENT THAN REPORTED.

8033	821014	DMD	1	821028	SWEC	PER/B	TES	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: NONCON. PRES. & TEMPS. TRANSIENTS CALCULATED BY NSC. SAFETY RELATED EQUIP. OUTSIDE CONTAINMENT MAY EXPERIENCE MORE SEVERE TEMP. & PRESS. ENVIRONMENTS THAN REPORTED. PG&E TO REANALYZE USING MORE DETAILED STEAM GENERATOR MODEL, IN CONJUNCTION W/RECOM. OF ERROR REPORT 8001.

8033	821014	DMD	2	821104	TES	ER/B	PG&E	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: NONCON. PRES. & TEMPS. TRANSIENTS CALCULATED BY NSC. SAFETY RELATED EQUIP. OUTSIDE CONTAINMENT MAY EXPERIENCE MORE SEVERE TEMP. & PRESS. ENVIRONMENTS THAN REPORTED. PG&E TO REANALYZE USING MORE DETAILED STEAM GENERATOR MODEL, IN CONJUNCTION W/RECOM. OF ERROR REPORT 8001.

8033	821014	DMD	3	830210	TES	OIR	SWEC	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: TES REQUESTS SWEC TO REVIEW THE DCP COMPLETION SHEET, SIGNED 830121, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8033	821014	DMD	4	830217	SWEC	PER/C	TES	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: STEAM GEN. MODELED BY NSC AS ONE CONTROL VOLUME DOESN'T MODEL STEAM SEP. LOCATED IN S.G. WILL AFFECT ENTRAINED LIQUID CALC IN S.G. EFFLUENT. DCP COMP SHT SIGNED 830121 IS ADEQUATE. CONCERN OF THIS FILE ADDRESSED IN 8001. DOWNGRADED FROM ER/B TO ER/C TO MORE ACCURATELY REFLECT CONCERN.

8033	821014	DMD	5	830225	TES	ER/C	PG&E	LCN		AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: STEAM GEN. MODELED BY NSC AS ONE CONTROL VOLUME DOESN'T MODEL STEAM SEP. LOCATED IN S.G. WILL AFFECT ENTRAINED LIQUID CALC IN S.G. EFFLUENT. DCP COMP SHT SIGNED 830121 IS ADEQUATE. CONCERN OF THIS FILE ADDRESSED IN 8001. DOWNGRADED FROM ER/B TO ER/C TO MORE ACCURATELY REFLECT CONCERN.

8033	821014	DMD	6	830225	TES	CR	NONE	LCN	NO	AFW & CRVP EQUIPMENT OUTSIDE CONTAINMENT

COMMENT: STEAM GEN. MODELED BY NSC AS ONE CONTROL VOLUME DOESN'T MODEL STEAM SEP. LOCATED IN S.G. WILL AFFECT ENTRAINED LIQUID CALC IN S.G. EFFLUENT. DCP COMP SHT SIGNED 830121 IS ADEQUATE. CONCERN OF THIS FILE ADDRESSED IN 8001. DOWNGRADED FROM ER/B TO ER/C. ERROR CLASS C.

8034	821014	ICD	0	821014	SWEC	OIR	SWEC	LCN		AFW SYSTEM EQUIPMENT

COMMENT: NONCONSERVATIVE PRESSURE & TEMPS TRANSIENTS CALCULATED IN AREA GE, EL 115' BY NSC. SAFETY-RELATED EQUIP OUTSIDE CONTAINMENT MAY EXPERIENCE MORE SEVERE TEMPERATURE AND PRESSURE ENVIRONMENTS THAN REPORTED.

8034	821014	ICD	1	821028	SWEC	PER/AB	TES	LCN		AFW SYSTEM EQUIPMENT

COMMENT: NONCONSERVATIVE PRESS.&TEMP TRANSIENTS CALCULATED BY NSC. SAFETY RELATED EQUIPMENT OUTSIDE CONTAINMENT WILL EXPERIENCE HIGHER TEMP AND PRESSURE ENVIRONMENTS THAN REPORTED. PG&E TO REANALYZE USING MULTIPLE NODE MODEL IN CONJUNCTION WITH RECOM. EOI FILE 8001.

8034	821014	ICD	2	821104	TES	ER/B	PG&E	LCN		AFW SYSTEM EQUIPMENT

COMMENT: NONCONSERVATIVE PRESS.&TEMP TRANSIENTS CALCULATED BY NSC. SAFETY RELATED EQUIPMENT OUTSIDE CONTAINMENT WILL EXPERIENCE HIGHER TEMP AND PRESSURE ENVIRONMENTS THAN REPORTED. PG&E TO REANALYZE USING MULTIPLE NODE MODEL IN CONJUNCTION WITH RECOM. EOI FILE 8001.

8034	821014	ICD	3	830131	TES	OIR	SWEC	LCN		AFW SYSTEM EQUIPMENT

COMMENT: REVIEW OF METHODS BY NSC FOR P AND T TRANSIENTS IN GE @ 115' AND DUE TO MAIN STEAM RUPTURE IN GW REVEAL. SAFETY RELATED EQUIP WILL EXPERIENCE HIGHER TEMP AND PRESSURE ENVIRONMENTS THAN REPORTED. SWEC TO REVIEW DCP COMP. SHT. AND PROVIDE RECOMMENDATION.

8034	821014	ICD	4	830210	SWEC	PPRR/CI	TES	LCN		AFW SYSTEM EQUIPMENT

COMMENT: DCP COMP. SHT. SIGNED 830124 IS ADEQUATE DUE TO DCP REANALYSIS. WILL USE MULTINODE COMPUTER PROGRAM WHICH CAN ADEQUATELY ADDRESS ENERGY RATES INTO ADJACENT COMPARTMENTS. CONCERNS OF THIS FILE REVIEWED W/DCP RESPONSE TO 8001. FILE SHOULD BE DOWNGRADED TO ER/C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8034	821014	ICD	5	830216	TES	OIR	SWEC	LCN		AFW SYSTEM EQUIPMENT
COMMENT: SWEC TO RESUBMIT THIS FILE AS A POTENTIAL ERROR C.										
8034	821014	ICD	6	830218	SWEC	PER/C	TES	LCN		AFW SYSTEM EQUIPMENT
COMMENT: NONCONSERATIVE PRESSURE & TEMP CALCULATED BY WSC. DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS WILL USE MULT-NODE COMPUTER PROGRAM WHICH ADEQUATELY ADDRESSES ENERGY RATES INTO ADJACENT COMPARTMENTS THIS CONCERN COVERED IN DCP RESPONSE TO EOI 8001. DOWNGRADED FROM ER/B TO ER/C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										
8034	821014	ICD	7	830225	TES	ER/C	PG&E	LCN		AFW SYSTEM EQUIPMENT
COMMENT: NONCONSERATIVE PRESSURE & TEMP CALCULATED BY WSC. DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS WILL USE MULT-NODE COMPUTER PROGRAM WHICH ADEQUATELY ADDRESSES ENERGY RATES INTO ADJACENT COMPARTMENT. THIS CONCERN COVERED IN DCP RESPONSE TO EOI 8001. DOWNGRADED FROM ER/B TO ER/C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN.										
8034	821014	ICD	8	830225	TES	CR	NONE	LCN	NO	AFW SYSTEM EQUIPMENT
COMMENT: NONCONSERATIVE PRESSURE & TEMP CALCULATED BY WSC. DCP COMP SHT SIGNED 830124 IS ADEQUATE BECAUSE DCP REANALYSIS WILL USE MULT-NODE COMPUTER PROGRAM WHICH ADEQUATELY ADDRESSES ENERGY RATES. THIS CONCERN COVERED IN DCP RESPONSE TO EOI 8001. DOWNGRADED FROM ER/B TO ER/C TO MORE ACCURATELY REFLECT SIGNIFICANCE OF CONCERN. ERROR CLASS C.										
8035	821014	DMD	0	821014	SWEC	OIR	SWEC	LCN		CRVP FIRE PROTECTION
COMMENT: PG&E HAS NOT MET COMMITMENT (AMEND. 51, 770727, PP5-49, 5-50, & 5-51) TO LOCATE SMOKE DETECTORS IN CRVP INTAKE DUCTS. CR OPERATORS WOULD NOT BE AUTOMATICALLY ALERTED IN CASE OF ENTERING SMOKE TO THE CR. SIGNIFICANT AMOUNT OF SMOKE COULD ENTER CR WHICH WOULD AFFECT HABITABILITY PRIOR TO DETECTION BY OPERATORS.										
8035	821014	DMD	1	821014	SWEC	PER/A	TES	LCN		CRVP FIRE PROTECTION
COMMENT: PG&E TO PROVIDE SMOKE DETECTORS (RVP NORMAL OUTSIDE AIR INTAKE DUCTS AS PER COMMITMENTS MADE IN FSAR AMENDMENT 51 (PP. 5-51) THIS COMMITMENT WAS MADE IN RESPONSE TO BTP-9. 5-1 POSITION F.2.										
8035	821014	DMD	2	821029	TES	ER/A	PG&E	LCN		CRVP FIRE PROTECTION
COMMENT: PG&E TO COMPLY WITH COMMITMENT MADE REGARDING SMOKE DETECTORS IN AMENDMENT 51 (P.5-51). COMMITMENT MADE IN RESPONSE TO BTP-9.5-1 POSITION F.2. DOCUMENTATION OF COMPLIANCE SHALL BE SUBMITTED TO THE IDVP FOR CONSIDERATION.										
8035	821014	DMD	3	830205	TES	OIR	SWEC	LCN		CRVP FIRE PROTECTION
COMMENT: SWEC TO REVIEW THE PG&E RESOLUTION SHEET, SIGNED 830124 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8035	821014	DMD	4	830207	SWEC	PPRR/CI	TES	LCN		CRVP FIRE PROTECTION
COMMENT: SWEC HAS REVIEWED PG&E RESOLUTION SHEET SIGNED 830124 & CONSIDERS PHYSICAL MODS (SMOKE DETECTORS TO BE INSTALLED IN CRVP INTAKE DUCTS) ACCEPTABLE W/LICENSING COMMITMENTS. MOD TO BE VERIFIED BY IDVP. DOWNGRADED FROM ER/A TO ER/C BECAUSE LACK OF THESE SPECIFIC SMOKE DET. WOULD POSE NO SIGNIF. SAFETY CONCERN EVEN THOUGH LICENSING COM. WAS NOT MET.										
8035	821014	DMD	5	830225	TES	OIR	SWEC	LCN		CRVP FIRE PROTECTION
COMMENT: SMOKE DETECTORS IN CRVP NORMAL OUTSIDE AIR INTAKE DUCTS HAVEN'T BEEN PROVIDED PER COMMITMENTS MADE IN FSAR AMEND. 51 (PP. 5-51). TES REQUESTS SWEC TO RESUBMIT THIS FILE AS A POTENTIAL ERROR CLASS C.										
8035	821014	DMD	6	830225	SWEC	PER/C	TES	LCN		CRVP FIRE PROTECTION
COMMENT: PG&E TO INSTALL SMOKE DETECTORS IN CRVP INTAKE DUCTS TO MEET LICENSING COMMITMENTS IN FSAR AMEND. 51, 770727. DCN'S ISSUED FOR PHYSICAL MODS. SWEC CONSIDERS MODS ACCEPTABLE. MODS TO BE VERIFIED BY IDVP. FILE DOWNGRADED FROM ER/A TO ER/C BECAUSE ALTHOUGH LICENSING COM. NOT MET, LACK OF DETECTORS POSES NO SIGNIFICANT SAFETY CONCERN.										
8035	821014	DMD	7	830225	TES	ER/C	PG&E	LCN	YES	CRVP FIRE PROTECTION
COMMENT: PER DCP RESOLUTION SHEET SIGNED 830124, TWO DCN'S ISSUED TO INSTALL SMOKE DETECTORS IN CRVP INTAKE IN ORDER TO MEET LICENSING COMMITMENTS. IDVP CONCURS W/DCP ACTION AND WILL VERIFY MODS. DOWNGRADED FROM ER/A TO ER/C BECAUSE NO SIGNIFICANT SAFETY CONCERN EVEN THOUGH LICENSING COMMITMENT WAS NOT MET.										
8035	821014	DMD	8	830406	TES	CR	NONE	LCN	YES	CRVP FIRE PROTECTION
COMMENT: PG&E FAILED TO LOCATE SMOKE DETECTORS IN CRVP INTAKE DUCTS. PER DCP RES SHT SIGNED 830124, TWO DCN'S ISSUED TO INSTALL SMOKE DETECTORS IN CRVP INTAKE IN ORDER TO MEET LICENSING COMMITMENTS. IDVP CONCURS W/DCP ACTION & WILL VERIFY MODS. DOWNGRADED FROM ER/A TO ER/C BECAUSE NO SIGNIFICANT SAFETY CONCERN EVEN THOUGH LICENSING COMMITMENT WAS NOT MET.										
8035	821014	DMD	9	830407	TES	CR	NONE	LCN	YES	CRVP FIRE PROTECTION
COMMENT: PG&E FAILED TO LOCATE SMOKE DETECTORS IN CRVP INTAKE DUCTS. PER DCP RES SHT SIGNED 830124, TWO DCN'S ISSUED TO INSTALL SMOKE DETECTORS IN CRVP INTAKE IN ORDER TO MEET LICENSING COM. IDVP CONCURS W/DCP ACTION & WILL VERIFY MODS. DWNGRD FROM ER/A TO ER/C BECAUSE NO SIGNIF SAFETY CONCERN EVEN THOUGH LICENSING COM WAS NOT MET. THIS REV TO CLARIFY STATUS AS ER/C.										
8036	821014	FID	0	821014	SWEC	OIR	SWEC	LCN		AFW FIRE PROTECTION-HYDROGEN LINES
COMMENT: PG&E COMMITED TO ENCLOSING WITH 2 1/2 GUARD PIPE OR REROUTING HYDROGEN LINES THRU AFW PUMP ROOMS(FIRE ZONES 3-Q-1 & 3-Q-2). VALVE COVER & MISSING BOLTS ON CHECK VALVE ALSO FOUND MISSING IN FIRE ZONE 3-Q-1. A SIGNIFICANT HYDROGEN LEAK COULD CREATE AN EXPLOSION HAZARD IN 3-Q-1 WHICH CONTAINS SAFETY-RELATED AFW TURBINE DRIVEN PUMP.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8036	821014	FID	1	821025	SWEC	PER/A	TES	LCN		AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: THE AFW PUMP ROOMS (WHICH CONTAIN SAFETY RELATED EQUIPMENT) CONTAIN HYDROGEN LINES WHICH MAY POSE A FIRE HAZARD IN ZONES 3-Q-1 AND 3-G-2. A SIGNIFICANT HYDROGEN LEAK COULD CREATE AN EXPLOSION HAZARD. THE HYDROGEN LINES SHOULD BE WALKED DOWN AND THE INTEGRITY OF THE SYSTEM ASSURED IN ACCORDANCE W/LICENSING COMMITMENTS.

8036	821014	FID	2	821030	TES	ER/A	PG&E	LCN		AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: THE COVERS SHOULD BE SECURED AND THE REMAINING PORTIONS OF THE HYDROGEN LINES SHOULD BE WALKED TO ASSURE SYSTEM INTEGRITY IN ACCORDANCE WITH LICENSING COMMITMENTS.

8036	821014	FID	3	830113	TES	OIR	SWEC	LCN		AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: TES REQUESTS SWEC TO ISSUE A POTENTIAL PROGRAM RESOLUTION REPORT TO PROCESS THIS FILE AS A CLOSED ITEM.

8036	821014	FID	4	830209	SWEC	PPRR/DEV	TES	LCN		AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: SWEC HAS REVIEWED PG&E COMP. SHEET DATED 821216, ACCEPTABLE TO ASSURE SYSTEM INTEGRITY IN ACCORDANCE WITH LICENSING COMMITMENTS. NOT AN ERROR IN ANALYSIS, DESIGN OR CONSTRUCTION AS SYSTEM WAS NOT IN OPERATION AT TIME OF REVIEW. NO MODS OTHER THAN REPLACING COVERS. DOWNGRADED FROM ER/A TO DEV. TO MORE ACCURATELY REFLECT THE CONCERN.

8036	821014	FID	5	830225	TES	PRR/DEV	TES	LCN		AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: IDVP HAS REVIEWED DCP COMPLETION SHEET SIGNED 830210 AND FOUND IT ACCEPTABLE TO ASSURE SYSTEM INTEGRITY IN ACCORDANCE W/LICENSING COMMITMENTS. NOT AN ERROR IN ANALYSIS, DESIGN OR CONSTRUCTION. DOWNGRADED FROM ER/A TO DEVIATION TO REFLECT SIGNIFICANCE OF CONCERN.

8036	821014	FID	6	830225	TES	CR	NONE	LCN	NO	AFW FIRE PROTECTION-HYDROGEN LINES

COMMENT: PG&E COMMITED TO ENCLOSING WITH 2 1/2 GUARD PIPE OR REROUTING HYDROGYN LINES THRU PUMP ROOMS. IDVP HAS REVIEWED DCP COMP SHT SIGNED 830210 & FOUND IT ACCEPTABLE TO ASSURE SYS INTEGRITY IN ACCORDANCE W/LICENSING COMMITMENTS.NOT AN ERROR IN ANALYSIS, DESIGN OR CONSTRUCTION. DOWNGRADED FROM ER/A TO DEVIATION TO REFLECT SIGNIFICANCE OF CONCERN. DEVIATION.

8037	821014	DMD	0	821014	SWEC	OIR	SWEC	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: PG&E COMMITED TO CONSTRUCTING A NONCOMBUSTIBLE BARRIER TO SEPARATE MOTOR DRIVEN FROM TURBINE DRIVEN AFW PUMPS. DAMPER FD-24 LOCATED IN THIS AREA (WHICH HAS FUSIBLE LINKS BUT NO VISIBLE RATING) COULD HAVE UP TO 1" GAPS EVEN WHEN CLOSED. DAMPER MAY NOT ADEQUATELY SEPARATE PUMPS IN CASE OF A FIRE.

8037	821014	DMD	1	821025	SWEC	PPRR/DIP	TES	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: EVALUATE WHETHER DAMPER FD-24 MEETS THE CRITERIA AS A NONCOMBUSTIBLE BARRIER.

8037	821014	DMD	2	821118	TES	PRR/DIP	PG&E	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: THE FD-24 FIRE DAMPER MAY BE INADEQUATE TO PROVIDE A FIRE BARRIER BETWEEN THE MOTOR DRIVEN AND TURBINE DRIVEN AUXILIARY FEEDWATER PUMPS. PG&E TO EVALUATE FD-24 FIRE DAMPER TO DETERMINE ITS ADEQUACY AS A FIRE BARRIER.

8037	821014	DMD	3	821123	TES	OIR	SWEC	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: FIELD INSPECTION REVEALED DAMPER FD-24(WHICH HAS FUSIBLE LINKS BUT NO VISIBLE RATING) COULD HAVE UP TO 1 INCH GAPS EVEN WHEN CLOSED. DAMPER MAY NOT ADEQUATELY SEPARATE THE TURBINE DRIVEN AFW PUMP FROM THE MOTOR DRIVEN PUMPS IN CASE OF A FIRE.

8037	821014	DMD	4	821201	SWEC	PPRR/CI	TES	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: SWEC HAS REVIEWED THE PG&E DOCUMENTATION SENT IN RESPONSE TO THE FILE. THE PG&E RESPONSE IS ACCEPTABLE AND NO PHYSICAL MODIFICATIONS ARE REQUIRED. IT WAS FOUND THAT GAPS BETWEEN THE DAMPER BLADES AND FRAME DID MEET THE UL-555 CRITERIA.

8037	821014	DMD	5	821202	TES	PRR/CI	TES	RRB		AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: SWEC HAS REVIEWED THE PG&E DOCUMENTATION. NO PHYSICAL MODIFICATIONS. SWEC PERSONEL MEASURED GAPS BETWEEN THE DAMPER BLADES AND FRAME AND FOUND THEM TO BE WITHIN COMPLIANCE WITH UL-555, STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS.

8037	821014	DMD	6	821202	TES	CR	NONE	RRB	NO	AFW FIRE PROTECTION-NONCOMBUSTIBLE BARRIER

COMMENT: EVALUATE WHETHER DAMPER FD-24 MEETS CRITERIA. MAY BE INADEQUATE TO PROVIDE FIRE BARRIES BETWEEN M.D AND T.D. AFW PUMPS. WITH PG&E DOCUMENTATION, SWEC MEASURED GAPS BETWEEN DAMPER BLADES AND DAMPER FRAME AND FOUND THEM TO MEET UL-555 CRITERIA. CLOSED ITEM.

8038	821014	DMD	0	821014	SWEC	OIR	SWEC	LCN		AFW FIRE PROTECTION-ZONE OPENING

COMMENT: FSAR AMEND 51, 770727 STATES CEILING OF AFW PUMP ROOMS ARE 2' THICK CONCRETE. CEILING OF FIRE ZONE 3-Q-2(AFW MOTOR DRIVEN PUMPS, EL 100') HAS LARGE OPENING W/GRATING TO ZONE 3-R (EL 115'). A FIRE COULD PROPAGATE INTO ZONE 3-Q-2.

8038	821014	DMD	1	821025	SWEC	PER/AB	TES	LCN		AFW FIRE PROTECTION-ZONE OPENING

COMMENT: A FIRE COULD PROPAGATE FROM ZONE 3-R TO 3-Q-2 BECAUSE THE AFW PUMP ROOMS HAS A LARGE OPENING W/GRATING RATHER THAN 2' CONCRETE AS STATED. PERFORM ANALYSIS DEMONSTRATING THAT A FIRE CANNOT PROPAGATE BETWEEN THE ZONES OR MAKE DESIGN MODIFICATIONS TO MEET LICENSING COMMITMENT.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8038	821014	DMD	2	821029	TES	ER/AB	PG&E	LCN		AFW FIRE PROTECTION-ZONE OPENING
COMMENT: PG&E TO COMPLY WITH THE LICENSING COMMITMENT OR TO PROVIDE AN ANALYSIS DEMONSTRATING THAT A FIRE CANNOT PROPAGATE FROM ZONE 3-R TO ZONE 3-Q-2.										
8038	821014	DMD	3	830111	TES	OIR	SWEC	LCN		AFW FIRE PROTECTION-ZONE OPENING
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 830103 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8038	821014	DMD	4	830210	SWEC	PPRR/DEV	TES	LCN		AFW FIRE PROTECTION-ZONE OPENING
COMMENT: SWEC REVIEWED DCP COMPLETION SHEET DATED 830107. FIRE IS UNLIKELY TO PROPAGATE THRU OPENING. THEREFORE, INTENT OF LICENSING COMMITMENT TO CONTAIN FIRE IN ITS OWN FIRE ZONE HAS BEEN MET. DOWNGRADE FROM ER A/B TO DEVIATION TO MORE ACCURATELY REFLECT THE CONCERN.										
8038	821014	DMD	5	830225	TES	PRR/DEV	TES	LCN		AFW FIRE PROTECTION-ZONE OPENING
COMMENT: IDVP HAS REVIEWED DCP COMPLETION SHEET DATED 830103 AND CONCLUDES THAT A FIRE IS UNLIKELY TO PROPAGATE THRU OPENING. INTENT OF LICENSING COMMITMENT TO CONTAIN FIRE IN OWN ZONE HAS BEEN MET. DOWNGRADED FROM ER/AB TO DEVIATION TO REFLECT SIGNIFICANCE OF CONCERN.										
8038	821014	DMD	6	830225	TES	CR	NONE	LCN	NO	AFW FIRE PROTECTION-ZONE OPENING
COMMENT: FSAR AMEND. 51, 770727 STATES CEILING OF AFW PUMP ROOM IS CONCRETE. ACTUALLY, GRATING. IDVP HAS REVIEWED DCP COMP SHT (830103) & CONCLUDES THAT A FIRE IS UNLIKELY TO PROPAGATE THRU OPENING. INTENT OF LICENSING COMMITMENT TO CONTAIN FIRE IN OWN ZONE HAS BEEN MET. DOWNGRADED FROM ER/AB TO DEVIATION TO REFLECT SIGNIFICANCE OF CONCERN. DEVIATION.										
8039	821014	FID	0	821014	SWEC	OIR	SWEC	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: FSAR AMEND 51, 770727 STATES CEILINGS OF 4160V CABLE SPREADING ROOMS ARE 1' THICK CONCRETE SLABS WITH CABLE PENET. SEALED FOR 3-HR RATINGS. CEILING IN EACH ROOM (FIRE ZONES 12-A, 12-B, 12-C) HAVE GRATED OPENINGS UP TO 4160V SWITCHGEAR ROOMS (FIRE ZONES 13-A, 13-B, 13-C). A FIRE COULD PROPAGATE BETWEEN EITHER ROOM.										
8039	821014	FID	1	821025	SWEC	PER/AB	TES	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: 4160V CABLE SPREADING ROOMS HAVE GRATED OPENING RATHER THAN 1' CONCRETE AS STATED. FIRE COULD PROPAGATE IN TO 4160V SWITCHGEAR ROOM OR VISA VERSA. PERFORM AN ANALYSIS DEMONSTRATING THAT A FIRE CANNOT PROPAGATE BETWEEN THE ZONES OR MAKE DESIGN MODIFICATIONS TO MEET LICENSING COMMITMENT.										
8039	821014	FID	2	821029	TES	ER/AB	PG&E	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: PG&E TO COMPLY WITH LICENSING COMMITMENT OR TO PROVIDE DOCUMENTATION THAT DEMONSTRATES THAT A FIRE CANNOT PROPAGATE FROM THE 4160 V CABLE SPREADING ROOMS TO THE 4160 V SWITCHGEAR ROOMS OR MAKE DESIGN MODIFICATIONS TO MEET LICENSING COMMITMENT.										
8039	821014	FID	3	830113	TES	OIR	SWEC	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET SIGNED 821204 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8039	821014	FID	4	830209	SWEC	PPRR/DEV	TES	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: SWEC HAS REVIEWED PG&E COMP SHT DATED 830117. AS-BUILTS OF AFFECTED FIRE NOT AS SPECIFICALLY DESCRIBED IN LICENSING DOCUMENTS, BUT FIRE IN 4KV SWITCHGEAR ROOMS OR CABLE SPREAD ROOMS WILL AFFECT NO MORE THAN ONE VITAL BUS AND NOT LIKELY THAT IT WILL PROPAGATE.THEREFORE,INTENT HAS BEEN MET. DOWNGRADE FROM ER/AB TO DEV TO MORE ACCURATELY REFLECT THE CONCERN										
8039	821014	FID	5	830225	TES	PRR/DEV	TES	LCN		4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: BASED ON DCP COMP SHT SIGNED 830115, IDVP CONCLUDES INTENT OF LICENSING COMMITMENT HAS BEEN MET BECAUSE FIRE IN ANY 4KV SWITCHGEAR ROOM WILL ONLY AFFECT ONE VITAL BUS AND WILL NOT SPREAD. DOWNGRADED FROM ER/AB TO DEVIATION.										
8039	821014	FID	6	830225	TES	CR	NONE	LCN	NO	4160V FIRE PROTECTION-ZONE BARRIERS
COMMENT: FSAR AMEND. 51, 770727 STATE CABLE SPREADING ROOM CEILINGS OF CONCRETE. ACTUALLY GRATING. BASED ON DCP COMP SHT SIGNED 830115, IDVP CONCLUDES INTENT OF LICENSING COMMITMENT HAS BEEN MET BECAUSE FIRE IN ANY 4KV SWITCHGEAR ROOM WILL ONLY AFFECT ONE VITAL BUS AND WILL NOT SPREAD. DOWNGRADED FROM ER/AB TO DEVIATION. DEVIATION.										
8040	821022	DMD	0	821022	SWEC	OIR	SWEC	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF THE FLOODING IN AREA GW DUE TO A FEEDWATER LINE RUPTURE REVEALED TWO NONCONSERVATIVE ASSUMPTIONS. ASSUMPTIONS FOR STEAM GENERATOR WATER INVENTORY AND AUXILIARY FEEDWATER ADDITION DIRECTLY AFFECT CALCULATION OF SUBMERGENCE.										
8040	821022	DMD	1	821028	SWEC	PER/B	TES	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF THE FLOODING IN AREA GW DUE TO A FEEDWATER LINE RUPTURE REVEALED TWO NONCONSERVATIVE ASSUMPTIONS. ASSUMPTIONS FOR STEAM GENERATOR WATER INVENTORY AND AUXILIARY FEEDWATER ADDITION DIRECTLY AFFECT CALCULATION OF SUBMERGENCE.										
8040	821022	DMD	2	821030	TES	ER/B	PG&E	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REANALYSIS by PG&E USING CONSERVATIVE ASSUMPTIONS FOR INITIAL WATER INVENTORY. REPORT BY PG&E OF DOCUMENTATION AND RESULTS TO IDVP FOR REVIEW. NOTE: THIS REANALYSIS WAS INITIALLY MENTIONED IN EOI 8005.										

	REV. 0		LATEST REV.				ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8040	821022	DMD	3	830131	TES	OIR	SWEC	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF FLOODING IN AREA GW DUE TO FW LINE RUPTURE REVEALED TWO NONCONSERVATIVE ASSUMPTIONS. ASSUMPTIONS CONCERNING SG WATER INVENTORY AND AFW ADDITION COULD AFFECT CALCULATION OF FLOODING HEIGHTS. SWEC TO REVIEW PG&E COMPLETION SHEET SIGNED 830124 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8040	821022	DMD	4	830210	SWEC	PPRR/CI	TES	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: RESPONSE BY DCP COMP SHEET SIGNED 830124 ADEQUATE. REVIEW OF RESPONSE SHOWED THAT MAX FLOOD HEIGHTS IN ORIGINAL CALCS CONSERVATIVE. WATER VOLUME OVERPREDICTED LARGER THAN SG WATER VOLUME NEGLECTED. DOWNGRADED FROM ER/B TO ER/C TO MORE ADEQUATELY REFLECT SIGNIFICANCE OF CONCERN.										
8040	821022	DMD	5	830217	TES	OIR	SWEC	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF FLOODING IN AREA GW DUE TO FW LINE RUPTURE REVEALED ASSUMED WATER INVENTORY AVAILABLE FOR RELEASE FROM SG NONCONSERVATIVE. SG WATER INVENTORY AND AFW ADDITION COULD AFFECT FLOOD HEIGHTS. TES REQUESTS SWEC TO RESUBMIT AS PER/C.										
8040	821022	DMD	6	830218	SWEC	PER/C	TES	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF FLOODING IN AREA GW DUE TO FW LINE BREAK REVEALED NONCONSERVATIVE ASSUMPTIONS. REVIEW OF DCP COMPLETION SHEET SIGNED 830124 REVEALED MAX FLOOD HEIGHTS CALC. IN ORIGINAL ANALYSIS TO BE CONSERVATIVE. CONCERNS ADEQUATELY ADDRESSED. DOWNGRADED FROM ER/B TO ER/C.										
8040	821022	DMD	7	830222	TES	ER/C	PG&E	LCN		S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF FLOODING IN AREA GW DUE TO FW LINE RUPTURE REVEALED NONCONSERVATIVE ASSUMPTIONS. COULD AFFECT CALC OF FLOODING HEIGHTS. WATER INVENTORY NEGLECTED LESS THAN THAT WHICH WAS OVERPREDICTED. CONCERN ADEQUATELY ADDRESSED. FILE DOWNGRADED FROM ER/B TO ER/C.										
8040	821022	DMD	8	830222	TES	CR	NONE	LCN	NO	S-R EQUIP./FLOOD LEVELS OUTSIDE CONTAINMENT.
COMMENT: REVIEW OF FLOODING IN AREA GW DUE TO FW LINE RUPTURE REVEALED NONCONSERVATIVE ASSUMPTIONS. COULD AFFECT CALC OF FLOODING HEIGHTS. WATER INVENTORY NEGLECTED LESS THAN THAT WHICH WAS OVERPREDICTED. CONCERN ADEQUATELY ADDRESSED. FILE DOWNGRADED FROM ER/B TO ER/C.										
8041	821022	OD	0	821022	SWEC	OIR	SWEC	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: TWO REDUNDANT TRAINS ARE BROUGHT TOGETHER IN ONE POWER TRANSFER SWITCH. SWITCH COULD NOT BE OPENED FOR INSPECTION DURING SITE VISIT. FAILURE OF SINGLE TRANSFER SWITCH COULD CONNECT TWO REDUNDANT TRAINS TOGETHER RESULTING IN FAILURE OF REDUNDANT CRVP SYSTEM EQUIPMENT.										
8041	821022	OD	1	821028	SWEC	PER/AB	TES	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: PG&E TO COMPLY WITH SEPARATION CRITERIA OF FSAR 8.3.3 AND IEEE 308-1971.										
8041	821022	OD	2	821123	TES	OIR	SWEC	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: TWO REDUNDANT TRAINS ARE BROUGHT TOGETHER IN ONE POWER TRANSFER SWITCH. SWITCH COULD NOT BE OPENED FOR FIELD INSPECTION. FAILURE OF THE SINGLE TRANSFER SWITCH COULD CONNECT TWO REDUNDANT TRAINS TOGETHER RESULTING IN FAILURE OF REDUNDANT CRVP SYSTEM EQUIPMENT.										
8041	821022	OD	3	821207	SWEC	PPRR/OIP	TES	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: PG&E TO PROVIDE: 1)-DEFINITION OF "MUTUALLY REDUNDANT" 2)-DESIGN PROC. WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAYS AND EQUIP. ENCLOSURES. 3)-JUSTIFICATION THAT USE OF COMMON SWITCH FOR TWO VITAL SOURCES WON'T RESULT IN COMMON MODE FAILURE. 4)-FURNISH OPERATING PROC./DIRECTIVE REQUIRING POSITION OF FEEDER BREAKERS FOR SWITCH										
8041	821022	OD	4	821214	TES	PRR/OIP	PG&E	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: PG&E TO 1)DEFINE "MUTUALLY REDUNDANT" AS IT APPLIES TO INDIVIDUAL COMPONENTS, CIRCUITS, ETC. 2)PROVIDE DESIGN PROCEDURES WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAY AND EQUIPMENT ENCLOSURES. 3)JUSTIFY THAT USE OF A COMMON SWITCH FOR TWO VITAL SOURCES WILL NOT RESULT IN A COMMON MODE FAILURE.										
8041	821022	OD	5	830124	TES	OIR	SWEC	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: BASED ON THE 830104 MEETING, AND THE DCP COMPLETION SHEET IDVP FILE NO. 8041, REV. 3, SIGNED 821215, SWEC SHOULD EVALUATE THIS FILE AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8041	821022	OD	6	830309	SWEC	PPRR/DEV	TES	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: SWEC REVIEWED DCP COMP SHT SIGNED 821215, STATES THAT ONLY 1 OF 2 POWER SOURCES ENERGIZED AT ANY TIME PER PG&E STANDARD PRACTICE. PG&E TO DOCUMENT PG&E SOP FOR TRANSFER SWITCHES BY ISSUING PLANT OPERATING ORDER PRIOR TO DCP FUEL LOAD. NO FURTHER VERIFICATION REQUIRED.										
8041	821022	OD	7	830311	TES	PRR/DEV	TES	JWW		CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: SWEC REVIEWED DCP COMP SHT SIGNED 821215, STATES THAT ONLY 1 OF 2 POWER SOURCES ENERGIZED AT ANY TIME PER PG&E STANDARD PRACTICE. PG&E TO DOCUMENT PG&E SOP FOR TRANSFER SWITCHES BY ISSUING PLANT OPERATING ORDER PRIOR TO DCP FUEL LOAD. NO FURTHER VERIFICATION REQUIRED.										
8041	821022	OD	8	830311	TES	CR	NONE	JWW	NO	CRVP SYSTEM TRANSFER SWITCH, EPCHN
COMMENT: TWO REDUNDANT TRAINS BROUGHT TOGETHER IN ONE POWER TRANSFER SWITCH. SWEC REVIEWED DCP COMP SHT SIGNED 821215, STATES THA ONLY 1 OF 2 POWER SOURCES ENERGIZED AT ANY TIME PER PG&E STANDARD PRACTICE. PG&E TO DOCUMENT PG&E SOP FOR TRANSFER SWITCHES BY ISSUING PLANT OPERATING ORDER PRIOR TO DCP FUEL LOAD. NO FURTHER VERIF. REQUIRED. DEVIATION.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8042	821022	DMD	0	821022	SWEC	OIR	SWEC	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: TWO REDUNDANT COLORED TRAINS ARE BUNDLED TOGETHER. MECHANICAL OR ELECTRICAL FAILURE WITHIN THE PANEL COULD RESULT IN THE LOSS OF BOTH POWER SOURCES TO THE PANEL. ELECTRICAL FAULT IN BACKUP POWER SOURCE IN TERMINAL BOX BTH 101 COULD RESULT IN LOSS OF ALL THREE VITAL AC INSTRUMENT DISTRIBUTION PANELS.										
8042	821022	DMD	1	821028	SWEC	PER/AB	TES	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: PG&E TO COMPLY WITH SEPARATION CRITERIA IN FSAR 8.3.3 AND IEEE 308-1971.										
8042	821022	DMD	2	821123	TES	OIR	SWEC	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: BACKUP POWER SOURCE CABLE (GRAY) IS BUNDLED W/NORMAL POWER SOURCE CABLE (ORANGE OR PURPLE) WITHIN PANEL. MECH.OR ELEC.FAILURE IN PANEL COULD RESULT IN LOSS OF BOTH POWER SOURCES. ELEC.FAULT IN BACKUP(GRAY) POWER SOURCES IN TERMINAL BOX BTH101 COULD RESULT IN LOSS OF ALL VITAL AC INSTRUMENT DISTRIBUTION PANELS.										
8042	821022	DMD	3	821207	SWEC	PPRR/OIP	TES	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: PG&E TO PROVIDE: 1:-DEFINITION OF 'MUTUALLY REDUNDANT' 2:-DESIGN PROC. WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAYS AND EQUIP. ENCLOSURES. 3:-FURNISH OPERATING PROC./DIRECTIVE REQUIRING POSITION FOR BREAKERS FOR ALTERNATIVE GRAY POWER SOURCE FROM BUS 1G.										
8042	821022	DMD	4	821213	TES	PRR/OIP	PG&E	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: PG&E TO 1)DEFINE 'MUTUALLY REDUNDANT' AS IT APPLIES TO INDIVIDUAL COMPONENTS, CIRCUITS, ETC. 2)PROVIDE DESIGN PROCEDURES WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAY AND EQUIPMENT ENCLOSURES. 3)JUSTIFY THAT SINGLE FAILURE CRITERIA IS MET SHOULD ADDRESS BREAKER POS. FOR ALTER. GRAY POWER SOURCE FROM BUS 1G.										
8042	821022	DMD	5	830124	TES	OIR	SWEC	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: BASED ON THE 830104 MEETING, AND THE DCP COMPLETION SHEET IDVP FILE NO. 8042, REVISION 3, SIGNED 821215, SWEC SHOULD EVALUATE THIS FILE AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8042	821022	DMD	6	830203	SWEC	PPRR/CI	TES	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: SWEC HAS REVIEWED PG&E COMPLETION SHEET SIGNED 821215 AND FOUND IT ACCEPTABLE BASED ON THREE SEPARATE POINTS.										
8042	821022	DMD	7	830209	TES	PRR/CI	TES	JWW		AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: SWEC HAS REVIEWED THE PG&E COMPLETION SHEET SIGNED 821215 AND FINDS IT ACCEPTABLE BASED ON CIRCUITS WHICH ARE NOT MUTUALLY REDUNDANT AND ANY FAILURE OF A PANEL WILL BE ISOLATED BY CIRCUIT BREAKERS.										
8042	821022	DMD	8	830209	TES	CR	NONE	JWW	NO	AFW, CRVP INSTRUMENT PANELS PY11, PY13
COMMENT: TWO REDUNDANT COLORED TRAINS ARE BUNDLED TOGETHER. MECH OR ELEC FAILURE WITHIN PANEL COULD RESULT IN LOSS OF BOTH POWER SOURCES TO PANEL. SWEC HAS REVIEWED THE PG&E COMP SHT SIGNED 821215 AND FINDS IT ACCEPTABLE BASED ON CIRCUITS ARE NOT MUTUALLY REDUNDANT AND ANY FAILURE OF A PANEL WILL BE ISOLATED BY CIRCUIT BREAKERS. CLOSED ITEM.										
8043	821022	DMD	0	821022	SWEC	OIR	SWEC	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: REDUNDANT SAFETY-RELATED TRAINS ARE BROUGHT TOGETHER WITHIN THE SAME ENCLOSURE WITHOUT THE REQUIRED SEPARATION. MECHANICAL OR ELECTRICAL FAILURE COULD RESULT IN THE LOSS OF REDUNDANT SAFETY RELATED CIRCUITS DUE TO A POSSIBLE INADEQUATE SEPARATION.										
8043	821022	DMD	1	821028	SWEC	PER/AB	TES	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: PG&E TO COMPLY WITH SEPARATION CRITERIA DETAILED IN FSAR 8.3.3 AND IEEE 308-1971.										
8043	821022	DMD	2	821123	TES	OIR	SWEC	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: REDUNDANT SAFETY-RELATED TRAINS ARE BROUGHT TOGETHER WITHIN SAME ENCLOSURE WITHOUT REQUIRED SEPARATION. MECHANICAL OR ELECTRICAL FAILURE COULD RESULT IN LOSS OF REDUNDANT SAFETY RELATED CIRCUITS DUE TO A POSSIBLE INADEQUATE SEPARATION.										
8043	821022	DMD	3	821207	SWEC	PPRR/OIP	TES	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: PG&E TO PROVIDE: 1:-DEFINITION OF 'MUTUALLY REDUNDANT' AS IT APPLIES TO COMPONENTS, CIRCUITS, ETC. 2:-DESIGN PROCED. WHICH CONTROL THE SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAYS AND EQUIPMENT ENCLOSURES. 3:-JUSTIFICATION THAT THE CIRCUITS IN THE IDENTIFIED EQUIPMENT DO NOT REQUIRE SEPARATION.										
8043	821022	DMD	4	821213	TES	PRR/OIP	PG&E	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: PG&E TO 1)DEFINE 'MUTUALLY REDUNDANT' AS IT APPLIES TO INDIVIDUAL COMPONENTS, CIRCUITS, ETC. 2)PROVIDE DESIGN PROCEDURES WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAY AND EQUIPMENT ENCLOSURES. 3)JUSTIFY THAT CIRCUITS IN IDENTIFIED EQUIPMENT DO NOT REQUIRE SEPARATION.										
8043	821022	DMD	5	830209	TES	OIR	SWEC	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET SIGNED 830124 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8043	821022	DMD	6	830214	SWEC	PPRR/CI	TES	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: SWEC HAS REVIEWED PG&E COMP. SHEET SIGNED 830124 AND FOUND IT ACCEPTABLE. CONCERN OF CABLE COLOR CODING, AND SAFETY CONCERN IN THIS FILE ALSO ADDRESSED IN 8054 AND 8059.										
8043	821022	DMD	7	830225	TES	PRR/CI	TES	JWW		AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: PG&E COMPLETION SHEET SIGNED 830124 ACCEPTABLE. MONITOR LIGHTS AND MAIN ANNUNCIATOR NOT S-R, THEREFORE CABLES NOT S-R. CL. IE COLOR CODED CABLES USED IN PORTIONS OF SYSTEM. CONCERN OF CABLE COLOR CODING ADDRESSED IN 8054 AND 8059.										
8043	821022	DMD	8	830225	TES	CR	NONE	JWW	NO	AFW TERMINAL BOXES BTA 308, BTH 110, BTH 115
COMMENT: REDUNDANT S-R TRAINS BROUGHT TOGETHER WITHIN SAME ENCLOSURE W/O REQUIRED SEPARATION. PG&E COMPLETION SHEET SIGNED 830124 ACCEPTABLE. MONITOR LIGHTS AND MAIN ANNUNCIATOR NOT S-R, THEREFORE CABLES NOT S-R. CL. IE COLOR CODED CABLES USED IN PORTIONS OF SYSTEM. CONCERN OF CABLE COLOR CODING ADDRESSED IN 8054 AND 8059. CLOSED ITEM.										
8044	821022	FID	0	821022	SWEC	OIR	SWEC	JWW		AFW - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: CIRCUITS F61P00 E3 AND F61P00 F3, FOR MPD1A AND MPD1. TYPE OF CABLE SPLICE IS ROCKBESTOS WHICH IS NOT QUALIFIED FOR TEMP EXCURSIONS DUE TO PIPE CRACKS. CIRCUITS INSTALLED IN CONDUIT K2915 SUBJECT TO THIS COULD RESULT IN CABLE SPLICE TO FAIL AND CAUSE LOSS OF THE CONTROL CIRCUITS.										
8044	821022	FID	1	821028	SWEC	PER/AB	TES	JWW		AFW - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: CIRCUITS F61P00E3 AND F61P00F3, FOR MPD1A AND MPD1. TYPE OF CABLE SPLICE IS ROCKBESTOS WHICH IS NOT QUALIFIED FOR TEMP EXCURSIONS DUE TO PIPE CRACKS. CIRCUITS INSTALLED IN CONDUIT K2915 SUBJECT TO THIS COULD RESULT IN CABLE SPLICE TO FAIL AND CAUSE LOSS OF THE CONTROL CIRCUITS. PG&E TO USE TEMPERATURE QUALIFIED SPLICE.										
8044	821022	FID	2	821123	TES	OIR	SWEC	JWW		AFW - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: CIRCUITS INSTALLED IN CONDUIT K2915 HAVE SPLICES MADE BY ROCKBESTOS. MAY NOT HAVE BEEN QUALIFIED FOR TEMP EXCURSIONS. TEMPERATURE EXCURSIONS DUE TO A PIPE CRACK COULD CAUSE THE CABLE SPLICE TO FAIL AND THEREFORE CAUSE A LOSS OF CONTROL CIRCUITS F61P00E3 AND F61P00F3.										
8044	821022	FID	3	821203	SWEC	PPRR/OIP	TES	JWW		AFW - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: PG&E VERIFY ADDITIONAL SPLICES WEREN'T USED IN AFW & CRVP SYSTEMS. DESCRIBE HOW THIS VERIFICATION WAS ACCOMPLISHED. WHERE SPLICES ARE IDENTIFIED, FURNISH DOCUMENTATION THAT SPLICES MATERIAL USED IS QUALIFIED TO PIPE CRACK ENVIRONMENT (TEMP. AND HUMIDITY)										
8044	821022	FID	4	830104	TES	PRR/OIP	PG&E	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: PG&E TO 1) VERIFY THAT ADDITIONAL SPLICES WERE NOT USED IN AFW & CRVP SYSTEMS IN SAFETY-RELATED CIRCUITS. DESCRIBE HOW VERIFICATION WAS ACCOMPLISHED. 2) WHERE SPLICES IDENTIFIED, DOCUMENT THAT SPLICE MATERIAL USED IS QUALIFIED TO THE PIPE CRACK ENVIRONMENT (TEMP. & HUMIDITY).										
8044	821022	FID	5	830309	TES	OIR	SWEC	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: SWEC TO REVIEW DCP RESPONSES (DCP COMPLETION SHEET DATED 821215 AND DCP RESOLUTION SHEET DATED 830301) AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8044	821022	FID	6	830311	SWEC	PPRR/DEV	TES	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: SWEC HAS REVIEWED PG&E/DCP RESPONSE AND FINDS IT ADEQUATE EXCEPT FOR ONE POINT. SWEC AND PG&E/DCP DON'T CONCUR ON INTERPRETATION OF LICENSING REQ. FOR RAYCHEM SPLICES AND OKONITE OKOLON CABLE. HOWEVER, SWEC WILL RECONSIDER CLOSING. INTREPRETATION IS BTWN PG&E AND NRC, NOT THE IDVP.										
8044	821022	FID	7	830316	TES	OIR	SWEC	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: SWEC TO PERFORM A FIELD VERIFICATION REVIEW OF SPLICE LOCATIONS PROVIDED BY DCP RESPONSE, IDVP FILE NO. 8044, SIGNED 830218.										
8044	821022	FID	8	830407	SWEC	PPRR/DEV	TES	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: SWEC REVIEWED 830218 COMP PACKAGE AND AGREES CABLE SPLICES LISTED NOT LOCATED IN AREAS SUBJECT TO PIPE CRACK TEMPS GREATER THAN 340 DEGREES F. FIELD VERIFICATION DONE BY SWEC TO ENSURE SPLICE LOCATIONS LISTED WON'T BE SUBJECT TO THOSE TEMPS.										
8044	821022	FID	9	830407	TES	PRR/DEV	PG&E	JWW		AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: BASED ON PG&E 830218 COMP PACKAGE AND 830301 ADDENDUM AND IDVP FIELD INSP. OF SPLICE LOCATIONS WHICH VERIFIED NO SPLICES LOCATED IN AREAS SUBJECT TO PIPE CRACK TEMP HIGHER THAN 340 DEGREES F. DEVIATION DUE TO LACK OF PREVIOUS DOCUMENTATION ID. LOCATIONS AND ENVIRONMENTS OF CABLE SPLICES IN AFW & CRVP ELECTRICAL SYSTEMS.										
8044	821022	FID	10	830407	TES	CR	NONE	JWW	NO	AFW/CRVP - CABLE SPLICES IN CONTROL CIRCUITS
COMMENT: BASED ON PG&E 830218 COMP PACKAGE AND 830301 ADDENDUM AND IDVP FIELD INSP. OF SPLICE LOCATIONS WHICH VERIFIED NO SPLICES LOCATED IN AREAS SUBJECT TO PIPE CRACK TEMP HIGHER THAN 340 DEGREES F. DEVIATION DUE TO LACK OF PREVIOUS DOCUMENTATION ID. LOCATIONS AND ENVIRONMENTS OF CABLE SPLICES IN AFW & CRVP ELECTRICAL SYSTEMS.										
8045	821022	OD	0	821022	SWEC	OIR	SWEC	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: SEPARATION CRITERIA AND REQUIREMENTS OF IEEE 279-1971 & IEEE 308-1971 ARE COMPROMISED. FAILURE OF THE PROTECTIVE DEVICES IN BOTH FEEDER CIRCUITS COULD CAUSE MAIN CIRCUIT PROTECTIVE DEVICES IN TWO 125V DC 1E ESF PANELS TO ISOLATE THEIR ASSOC. LOADS FROM THEIR POWER SOURCES. RESULT IN LOSS OF CONTROL POWER TO MORE THAN ONE TRAIN.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8045	821022	OD	1	821022	SWEC	PER/AB	TES	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: SEPARATION CRITERIA AND REQUIREMENTS OF IEEE 279-1971 & IEEE 308-1971 ARE COMPROMISED. COULD RESULT IN LOSS OF CONTROL POWER TO MORE THAN ONE TRAIN. A REVIEW OF DIESEL GENERATOR CONTROL CIRCUITRY AND ASSOCIATED POWER SOURCES IS RECOMMENDED TO ENSURE THAT A COMMON MODE FAILURE IS NOT POSSIBLE.										
8045	821022	OD	2	821123	TES	OIR	SWEC	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: FAILURE OF PROTECTIVE DEVICES IN BOTH 125V DC FEEDER CIRCUITS COULD CAUSE MAIN CIRCUIT PROTECTIVE DEVICES IN TWO 125V DC CL.IE EGF PANELS TO ISOLATE THEIR ASSOCIATED LOADS FROM THEIR POWER SOURCES. RESULT WOULD BE LOSS OF CONTROL POWER TO MORE THAN ONE TRAIN (I.E. A COMMON MODE FAILURE).										
8045	821022	OD	3	821207	SWEC	PPRR/OIP	TES	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: PG&E TO PROVIDE: 1:-DEFINITION OF 'MUTUALLY REDUNDANT' AS IT APPLIES TO INDIVIDUAL COMPONENTS, CIRCUITS, ETC. 2:-DESIGN PROC. WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS IN RACEWAYS AND EQUIP. ENCLOSURES. 3:-JUSTIFICATION THAT FAILURE OF PROTECTIVE DEVICES WILL NOT RESULT IN A COMMON MODE FAILURE.										
8045	821022	OD	4	821213	TES	PRR/OIP	PG&E	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: PG&E TO :1)DEFINE 'MUTUALLY REDUNDANT' AS IT APPLIES TO INDIVIDUAL COMPONENTS, CIRCUITS, ETC. 2)PROVIDE DESIGN PROCEDURES WHICH CONTROL SEPARATION OF MUTUALLY REDUNDANT CIRCUITS AND RACEWAY ENCLOSURES. 3)JUSTIFY THAT FAILURE OF PROTECTIVE DEVICES WILL NOT RESULT IN A COMMON MODE FAIURE.										
8045	821022	OD	5	830124	TES	OIR	SWEC	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: BASED ON THE 830104 MEETING AND THE DCP COMPLETION SHEET IDVP FILE NO 8045, REV. 3, SIGNED 821216, SWEC SHOULD EVALUATE THIS FILE AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8045	821022	OD	6	830203	SWEC	PPRR/CI	TES	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: SWEC HAS REVIEWED THE PG&E COMPLETION SHEET SIGNED 821216 AND HAS FOUND IT ACCEPTABLE BASED ON TWO POINTS.										
8045	821022	OD	7	830209	TES	PRR/CI	TES	JWW		DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: SWEC HAS REVIEW PG&E COMPLETION SHEET SIGNED 821216 AND FOUND IT ACCEPTABLE BASED ON THE FACT THAT CIRCUITS ARE NOT MUTUALLY REDUNDANT AND PROTECTIVE DEVICES ISOLATE CONTROL PANELS AND DIESEL GENERATORS RESULTING IN AVAILABILITY OF REDUNDANT GENERATING CAPABILITY IN EVENT OF SINGLE FAILURE.										
8045	821022	OD	8	830209	TES	CR	NONE	JWW	NO	DIESEL GEN. CONTROL & 125V DC RELIABILITY
COMMENT: SEPARATION CRITERIA & REQUIREMENTS OF IEEE 279-1971 & IEEE 308-1971 ARE NOT COMPROMISED. SWEC HAS REVIEWED PG&E COMP SHT SIGNED 821216 & FOUND IT ACCEPTABLE BASED ON THE FACT THAT CIRCUITS ARE NOT MUTUALLY REDUNDANT & PROTECTIVE DEVICES ISO. CONTROL PANELS & DIESEL GENERATORS RESULTING IN AVAIL OF REDUNDANT GENERATING CAPABILITY IN EVENT OF SINGLE FAILURE. CI.										
8046	821022	OD	0	821022	SWEC	OIR	SWEC	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: IN SOME INSTANCES AUX. DEVICES FOR CR PRESSURIZATION FANS 96-99 ARE NOT SUPPLIED FROM SAME OR RELATED BUS SECTIONS AS FANS PER CRITERIA IN IEEE 308-1971. LOSS OF ELECTRICAL POWER IN ONE LOAD GROUP WOULD CAUSE LOSS OF EQUIPMENT IN ANOTHER LOAD GROUP										
8046	821022	OD	1	821028	SWEC	PER/AB	TES	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: PG&E TO COMPLY WITH SUPPLEMENTARY DESIGN CRITERIA OF IEEE 308-1971, SECTION 5.2.2, PARAGRAPH (5).										
8046	821022	OD	2	821118	TES	ER/AB	PG&E	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: SOME AUX DEVICES FOR CRV FANS ARE NOT SUPPLIED FROM SAME OR RELATED BUS AS FAN DRIVE ITSELF AS SET FORTH IN IEEE 308-1971. THERE IS POSSIBLE LOSS OF FAN AVAILABILITY DUE TO LOSS OF ONE BUS. PG&E TO SHOW COMPLIANCE OR MODIFY TO COMPLY W/SUPPLEMENTARY DESIGN CRITERIA OF IEEE 308-1971, SECT. 5.2.2 PAR.5.										
8046	821022	OD	3	830309	TES	OIR	SWEC	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: SWEC TO REVIEW PG&E RESPONSE (REF. DCP COMPLETION SHEET REV. 2, IDVP FILE NO 8046 DATED 830225) AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8046	821022	OD	4	830311	SWEC	PPRR/DEV	TES	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: CONCERN OF LOSS OF ELECTRIC POWER IN ONE LOAD GROUP CAUSING LOSS OF EQUIP. IN OTHER GROUP. MOD MADE TO MEET FSAR SECT. 9.4.1. REC. GENERIC CONCERNS TRANSFERRED TO 8012 FOR UNIT 1 OPERATION AND TO 8016 FOR UNIT 1 AND UNIT 2 OPERATION. CLASSIFIED AS ER'S A AND B RESPECT. THUS 8046 ADDRESSED AS EQUIVALENT TO ER/A.										
8046	821022	OD	5	830315	TES	PRR/DEV	TES	RRB		CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: CONCERN OF CONTROL POWER FOR SOME S-R DEVICES NOT SUPPLIED FROM SAME OR RELATED BUS AS DEVICES'S POWER BUS. PG&E SAW PROBLEM AND MADE MODS. SINGLE FAILURE ANAL. SHOWS CONTROL POWER HAVING INSIGNIFICANT EFFECT AFTER MODS TO MEET FSAR. VERIF. OF MOD TRANSFERRED TO 8012 (ER/A). GENERIC CONCERNS TO 8012 AND 8016. RECLASSIFIED FROM ER/AB.										
8046	821022	OD	6	830315	TES	CR	NONE	RRB	NO	CRVP CONTROLS FOR FANS 96, 97, 98 & 99
COMMENT: CONCERN OF CONTROL POWER FOR SOME S-R DEVICES NOT SUPPLIED FROM SAME OR RELATED BUS AS DEVICES'S POWER BUS. PG&E SAW PROBLEM AND MADE MODS. SINGLE FAILURE ANAL. SHOWS CONTROL POWER HAVING INSIGNIFICANT EFFECT AFTER MODS TO MEET FSAR. VERIF. OF MOD TRANSFERRED TO 8012 (ER/A). GENERIC CONCERNS TO 8012 AND 8016. RECLASSIFIED FROM ER/AB TO DEVIATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8047	821022	DMD	0	821022	SWEC	OIR	SWEC	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: SINGLE FAILURE OF 3AFWP WILL PREVENT AUTOMATIC CLOSURE OF VALVES FCV151, 154, 157, 166, 244, 246, 248 AND FCV 250 UPON AN AUTOMATIC START OF ANY AUX F.W. PUMP CONTINUED BLOWDOWN OF STEAM GENERATORS DURING POSTULATED ACCIDENT REQUIRING AUX. F.W SYSTEM OPERATION MAY NOT HAVE BEEN CONSIDERED IN ACCIDENT ANALYSIS OF FSAR, CHAPT. 15.										
8047	821022	DMD	1	821022	SWEC	PPRR/OIP	TES	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: PG&E TO EVALUATE WHETHER FAILURE OF THE FOUR STEAM GENERATOR BLOWDOWN VALVES TO SHUT FOR POSTULATED ACCIDENTS REQUIRING OPERATION OF AFW SYSTEM AFFECTS THE ACCIDENT ANALYSIS PRESENTED IN CHAPTER 15 OF THE FSAR.										
8047	821022	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: PG&E TO EVALUATE WHETHER FAILURE OF THE FOUR STEAM GENERATOR BLOWDOWN VALVES TO SHUT FOR POSTULATED ACCIDENTS REQUIRING OPERATION OF THE AFW SYSTEM AFFECTS THE ACCIDENT ANALYSIS PRESENTED IN THE FSAR, CHAPTER 15.										
8047	821022	DMD	3	830225	TES	OIR	SWEC	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET DATED 830203 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8047	821022	DMD	4	830323	SWEC	PPRR/DEV	TES	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: DCP 830203 COMP. PACKAGE. FOR ACCIDENTS DESCRIBED IN FSAR WHERE PROTECTION SYSTEMS DON'T INITIATE A DIVERSE SFTY GRD. BLOWDWN VALVE TRIP SIGNAL, ADEQUATE FW OR AFW FLOW EXISTS ASSUMING BOTH A LOSS OF ONE TRAIN AND BLOWDWN VALVES UNISOLATED. THUS, BLOWDWN VALVES WOULD RECV. DIVERSE SAFETY GRADE TRIP SIGNALS. SAFETY LIMITS NOT EXCEEDED.										
8047	821022	DMD	5	830407	TES	PRR/DEV	PG&E	RRB		AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: DCP 830203 RES. & COMP. SHT. UNDER ACCIDENT CONDITIONS SAFETY-GRADE SIGNALS, OTHER THAN FROM RELAY 3AFWP, AVAILBLE TO ACTUATE SG BLOWDOWN VALVES AND ACHIEVE ISOLATION. AFW SYSTEM HAS SUFFICIENT CAPACITY TO ACHIEVE MIN. REQUIRED FLOW. INCONSISTENCY IN ASSUMPTIONS FOR SYSTEM DESIGN REQ.										
8047	821022	DMD	6	830407	TES	CR	NONE	RRB	NO	AUX FW - STEAM GENERATOR BLOWDOWN VALVES
COMMENT: UNDER ACCIDENT CONDITIONS SAFETY-GRADE SIGNALS, OTHER THAN FROM RELAY 3AFWP, AVAILABLE TO ACTUATE SG BLOWDOWN VALVES AND ACHIEVE ISOLATION. AFW SYSTEM HAS SUFFICIENT CAPACITY TO ACHIEVE MIN. REQUIRED FLOW. DEVIATION.										
8048	821025	FID	0	821025	SWEC	OIR	SWEC	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: CHECK VALVE ON MAINFOLD LINE IN FIELD IDENTIFIED AS INSTALLED. CURRENT DOCUMENTATION SHOWS IT REMOVED. SAFETY-RELATED MODS NOT INSTALLED PER APPORVED DOCUMENTS. FIELD CONFIGURATION APPEARS ACCEPTABLE FROM A SYSTEM OPERATION VIEWPOINT.										
8048	821025	FID	1	821025	SWEC	PPRR/OIP	TES	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: PG&E TO PROVIDE JUSTIFICATION AS TO WHY THE CHECK VALVE WAS NOT REMOVED IN ACCORDANCE WITH APPROVED DOCUMENTATION.										
8048	821025	FID	2	821029	TES	PRR/OIP	PG&E	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: PG&E TO PROVIDE JUSTIFICATION AS TO WHY CHECK VALVE WAS NOT REMOVED IN ACCORDANCE WITH APPROVED DOCUMENTATION.										
8048	821025	FID	3	830111	TES	OIR	SWEC	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: TES REQUESTS SWEC TO ISSUE A POTENTIAL PROGRAM RESOLUTION REPORT TO PROCESS THIS FILE AS A CLOSED ITEM.										
8048	821025	FID	4	830209	SWEC	PPRR/CI	TES	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: SWEC REVIEWED PG&E COMP SHEET DATED 830104 AND EXISTING INSTALLATION INCLUDING CHECK VALVE AND FINDS IT TECHNICALLY ACCEPTABLE. HOWEVER, RFR SHOULD REVIEW DESIGN CHANGE PROCEDURE IMPLEMENTATION TO DETERMINE IF GENERIC CONCERNS EXISTS W/DISCREPANCIES BTWN APPROVED S-R MODS OR DOCUMENTS AND EXISTING FIELD INSTALLATION.										
8048	821025	FID	5	830211	TES	PRR/CI	TES	LCN		AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: BASED ON PG&E RESOLUTION SHEET SIGNED 821204, THE IDVP HAS REVIEWED THE EXISTING INSTALLATION INCLUDING THE CHECK VALVE AND FINDS IT TECHNICALLY ACCEPTABLE.										
8048	821025	FID	6	830211	TES	CR	NONE	LCN	NO	AFW LONG TERM COOLING WATER SUPPLY SYSTEM
COMMENT: CHECK VALVE ON MANIFOLD LINE IN FIELD IDENTIFIED AS INSTALLED. CURRENT DOCUMENTATION SHOWS IT REMOVED. BASED ON PG&E RESOLUTION SHEET SIGNED 821204, THE IDVP HAS REVIEWED THE EXISTING INSTALLATION INCLUDING THE CHECK VALVE AND FINDS IT TECHNICALLY ACCEPTABLE. CLOSED ITEM.										
8049	821025	DMD	0	821025	SWEC	OIR	SWEC	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: JET IMPINGEMENT FROM LONGITUDINAL BREAK IN LINE 594(NODE 1800) IS POSTULATED TO HIT ORANGE CONDUIT KK 792 AND DAMAGE CABLE NO I00 53P103A RENDERING PUMP 1-3 INOPERABLE. POSTULATED SINGLE FAILURE OF PURPLE POWER LOSES PUMP 1-2. PUMP 1-1 INOPERABLE DUE TO BREAK. LOSS OF AFW FLOW COULD RESULT.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8049	821025	DMD	1	821026	SWEC	PPRR/OIP	TES	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: EVALUATION SHOULD BE MADE OF EFFECTS OF JET IMPINGEMENTS FROM POSTULATED BREAK NO. 1800 IN LINE 594 TO ASSURE LICENSING COMMITMENTS ARE MET REGARDING AVAILABILITY OF AFW SYSTEM COMPONENTS.										
8049	821025	DMD	2	821029	TES	PRR/OIP	PG&E	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: AN EVALUATION SHOULD BE MADE OF THE EFFECTS OF JET IMPINGEMENT FROM POSTULATED BREAK NO. 1800 IN LINE #594 TO DETERMINE IF LICENSING COMMITMENTS ARE MET REGARDING AVAILABILITY OF AFW SYSTEM COMPONENTS.										
8049	821025	DMD	3	821207	TES	OIR	SWEC	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: IN VIEW OF THE RESPONSE IN PG&E COMPLETION SHEET REVISION 2 DATED 821115, SWEC SHOULD REQUEST PG&E TO MAKE AN EVALUATION OF THE POSTULATED BREAK AT NODE 1800 IN LINE 594 TO ASSURE THAT LICENSING COMMITMENTS ARE MET.										
8049	821025	DMD	4	821215	SWEC	PPRR/OIP	TES	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: PG&E TO DEMON COMPLIANCE W/LICENSING COMMITMENTS IN FSAR APP. 3.6, PG&E SHOULD: 1) EVAL EFFECTS OF JET IMPINGEMENT FORCES, I.E., BLOWDOWN THRUST FROM BREAK 1800 IN LINE 594, ON CONDUIT KK792. 2)RE-EVAL JET ENVEL TEMP EFFECTS ON CONDUIT KK792 RESULTING FROM BREAK 1800 IN LINE 594. METHOD OF TEMP CALC TO BE USED SHOULD BE THAT OUTLINED IN PG&E-01-29, R.1.										
8049	821025	DMD	5	830103	TES	PRR/OIP	PG&E	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: PG&E TO DEMONSTRATE COMPLIANCE W/LICENSING COMMITMENTS OF FSAR APP 3.6, PG&E TO PROVIDE EVALUATION OF JET IMPINGEMENT FORCES, I.E. BLOWDOWN THRUST FROM BREAK 1800 IN LINE 594 ON CONDUIT KK 792, AND RE-EVAL OF JET ENVELOPE TEMP. EFFECTS OF CONDUIT KK792 RESULTING FROM THE SAME BREAK. TEMP. CALCS. USED SHOULD BE THE METHOD OUTLINED IN PGE-01-29, R.1.										
8049	821025	DMD	6	830111	TES	OIR	SWEC	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET IN RESPONSE TO FILE 8049-5 SIGNED 830103 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8049	821025	DMD	7	830207	SWEC	PPRR/CI	TES	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: INFO. ON DCP COMPLETION SHEET DATED 830126 ADDRESSES BOTH JET IMPINGEMENT BLOWDOWN AND TEMP EFFECTS ON CONDUIT KK792. TECHNICAL INFO AND FSAR CHANGE NOTICE INCLUDED PROVIDE AN ACCEPTABLE ANSWER TO CONCERNS OF THIS FILE.										
8049	821025	DMD	8	830309	TES	PRR/CI	TES	LCN		AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHG NOTICE & DCP COMP SHT SIGNED 830125. TECHNICAL INFO PROVIDED BY EARLIER DCP COMP SHT & FSAR CHG PROVIDE ON ACCEPTABLE ANSWER TO CONCERNS OF THIS FILE.										
8049	821025	DMD	9	830309	TES	CR	NONE	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: JET IMPINGEMENT FROM LONGITUDINAL BREAK IN LINE 594 POSTULATED TO HIT ORANGE CONDUIT KK792 RENDERING PUMP 1-3 INOPERABLE DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHG NOTICE & DCP COMP SHT SIGNED 830125. TECHNICAL INFO PROVIDED BY EARLIER DCP COMP SHT & FSAR CHG PROVIDE ON ACCEPTABLE ANSWER TO CONCERNS OF THIS FILE. CLOSED ITEM.										
8049	821025	DMD	10	830406	TES	OIR	SWEC	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: REFER TO 8049, REV. 6. DCP COMP SHT 830126 STATED CONDUIT KK792 IS FLUSH MOUNTED ON CEILING AND JET IMPINGEMENT FROM BREAK WON'T PRODUCE ANY LATERAL FORCE. IDVP 830330 WALKDOWN SHOWS CONDUIT 12" OFF CEILING. SWEC TO REVIEW CONDITION AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8049	821025	DMD	11	830406	SWEC	PPRR/OIP	TES	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: TO SHOW COMPLIANCE W/FSAR APP. 3.6, DCP SHOULD PROVIDE RE-EVALUATION OF EFFECTS OF JET IMPINGEMENT THRUST FORCE FROM BREAK 1800 ON CONDUIT KK792. SHOULD ADDRESS VERTICAL COMPONENT OF JET FORCE BECAUSE CONDUIT IS NOT FLUSH MOUNTED WITH CEILING AS PREVIOUSLY INDICATED.										
8049	821025	DMD	12	830406	TES	PRR/OIP	PG&E	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: TO SHOW COMPLIANCE W/FSAR APP. 3.6, DCP SHOULD PROVIDE RE-EVALUATION OF EFFECTS OF JET IMPINGEMENT THRUST FORCE FROM BREAK 1800 ON CONDUIT KK792. SHOULD ADDRESS VERTICAL COMPONENT OF JET FORCE BECAUSE CONDUIT IS NOT FLUSH MOUNTED WITH CEILING AS PREVIOUSLY INDICATED.										
8049	821025	DMD	13	830428	TES	OIR	SWEC	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: SWEC TO REVIEW DCP'S 830422 RESPONSE AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8049	821025	DMD	14	830503	SWEC	PPRR/CI	TES	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: LONGITUDINAL SPLIT @ NODE 1800 DETERMINED TO HAVE NO ADVERSE EFFECT ON CONDUIT KK792 PER STANDARD BECHTEL METHODOLOGY. ALLOWABLE JET PRESSURE BY BECHTEL METHODOLOGY CONSIDERED OUTSIDE SWEC'S SCOPE. INFO PROVIDED BY DCP SUFFICIENT TO ANSWER CONCERN.										
8049	821025	DMD	15	830509	TES	PRR/CI	TES	LCN	NO	AFW SYSTEM-PIPE BREAK IN LINE 594
COMMENT: LONGITUDINAL SPLIT @ NODE 1800 DETERMINED TO HAVE NO ADVERSE EFFECT ON CONDUIT KK792. INFO PROVIDED BY DCP SUFFICIENT TO ANSWER CONCERN.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8049	821025	DMD	16	830509	TES	CR	NONE	LCN	NO	LINE 594 PIPE RUPTURE EFFECT ON AFW SYSTEM
COMMENT: LONGITUDINAL SPLIT @ NODE 1800 DETERMINED TO HAVE NO ADVERSE AFFECT ON CONDUIT KK792 PER STANDARD BECHTEL METHODOLOGY. ALLOWABLE JET PRESSURE BY BECHTEL METHODOLOGY CONSIDERED OUTSIDE SWEC'S SCOPE. ASSUMING VALIDITY, INFO PROVIDED BY DCP SUFFICIENT TO ANSWER CONCERN.										
8050	821025	SID	0	821025	SWEC	OIR	SWEC	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: PG&E COMMITED TO EVALUATE MODERATE ENERGY LINE BREAKS FOR EQUIPMENT NEEDED FOR SAFE SHUTDOWN. CRVP IS NEEDED TO MAINTAIN CR HABITABILITY BUT WAS NOT INCLUDED IN THE EVALUATION.										
8050	821025	SID	1	821027	SWEC	PPRR/OIP	TES	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: PG&E TO IDENTIFY THE CRVP EQUIPMENT REQUIRED FOR CR HABITABILITY DURING COLD SHUTDOWN AND DETERMINE THE EFFECTS OF MODERATE ENERGY LINE BREAKS ON THIS EQUIPMENT IN ACCORDANCE WITH THE LICENSING COMMITMENT.										
8050	821025	SID	2	821030	TES	PRR/OIP	PG&E	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: PG&E TO IDENTIFY THE CRVP EQUIPMENT REQUIRED FOR CR HABITABILITY DURING COLD SHUTDOWN AND DETERMINE THE EFFECTS OF MODERATE ENERGY LINE BREAKS ON THIS EQUIPMENT IN ACCORDANCE WITH THE LICENSING COMMITMENT.										
8050	821025	SID	3	830309	TES	OIR	SWEC	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: SWEC TO REVIEW DCP COMPLETION SHEET SIGNED 830217 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8050	821025	SID	4	830311	SWEC	PPRR/DEV	TES	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: SWEC HAS REVIEWED DCP COMP SHT SIGNED 830310. CONCLUDED THAT IN UNLIKELY EVENT OF CR BECOMES UNINHABITABLE DUE TO MELB, PLANT SHUTDOWN AND COOLDOWN CAPABILITY WOULD BE MAINTAINED FROM HOT SHUTDOWN PANEL.										
8050	821025	SID	5	830315	TES	PRR/DEV	TES	LCN		CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: IDVP HAS REVIEWED DCP COMP SHT SIGNED 830310 AND CONCLUDED THAT IN UNLIKELY EVENT THAT MELB WOULD CAUSE CR TO BECOME UNINHABITABLE, PLANT SHUTDOWN AND COOLDOWN CAPABILITY WOULD BE MAINTAINED FROM HOT SHUTDOWN PANEL.										
8050	821025	SID	6	830315	TES	CR	NONE	LCN	NO	CRVP SYSTEM-MODERATE ENERGY LINE BREAKS
COMMENT: CRVP SYSTEM REQ. FOR CR HABITABILITY BUT NOT INCL. IN PG&E MELB EVALUATION. IDVP HAS REVIEWED DCP COMP SHT SIGNED 830310 AND CONCLUDED THAT IN UNLIKELY EVENT THAT MELB WOULD CAUSE CR TO BECOME UNINHABITABLE, PLANT SHUTDOWN AND COOLDOWN CAPABILITY WOULD BE MAINTAINED FROM HOT SHUTDOWN PANEL. DEVIATION.										
8051	821025	DMD	0	821025	SWEC	OIR	SWEC	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: PRESSURE TRANSMITTER PT 432 MONITORING AUX. FEED PUMP 1-1 IDENTIFIED AS CLASS IC BUT ITS POWER SOURCE IS CLASS II. TRANSMITTER AND ASSOC. INDICATORS POWERED FROM A NON-SAFETY SOURCE WHICH MAY NOT BE CONSIDERED AVAILABLE. SAFETY CLASSIFICATION OF TD AFW PUMP DISCHARGE PRESSURE INDICATION IS NOT CONSISTANT BETWEEN DOCUMENTS.										
8051	821025	DMD	1	821025	SWEC	PPRR/OIP	TES	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: PG&E TO EVALUATE THE CLASSIFICATION AND POWER SUPPLY OF PT 432 AND ASSOCIATED PRESSURE INDICATORS.										
8051	821025	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: PG&E TO EVALUATE THE CLASSIFICATION AND POWER SUPPLY OF PT-432 AND ASSOCIATED PRESSURE INDICATORS. COMPLETED PG&E RESOLUTION SHOULD BE DOCUMENTED FOR INDEPENDENT REVIEW BY SWEC.										
8051	821025	DMD	3	830124	TES	OIR	SWEC	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET, IDVP FILE NO. 8051, REV. 1, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8051	821025	DMD	4	830207	SWEC	PPRR/DEV	TES	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: SWEC HAS REVIEWED DCVP-SWEC-260 (821201) CONTAINING PG&E RES. AND COMP. SHEETS AND CONCLUDED THAT MOD TO FSAR, PER LETTER ICE-2650, WILL BE A SATISFACTORY RESOLUTION TO THE OIR. NO FURTHER VERIFICATION IS REQUIRED.										
8051	821025	DMD	5	830309	TES	PRR/DEV	TES	RRB		AFW-PRESSURE TRANSMITTER PT 432
COMMENT: DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHANGE NOTICE. CHANGE REQUIRED IN FSAR HELB ANALYSIS TO DELETE PT-432 WHICH HAD WRONGLY BEEN IDENTIFIED AS 'ESSENTIAL'. NO ADDITIONAL DCP ACTION REQUIRED.										
8051	821025	DMD	6	830309	TES	CR	NONE	RRB	NO	AFW-PRESSURE TRANSMITTER PT 432
COMMENT: PRESSURE TRANSMITTER PT-432 MONITORING AUX FEED PUMP 1-1 ID AS CL. IC BUT POWER SOURCE IS CL. II. DCP COMP SHT SIGNED 830303 TRANSMITTING PSRC APPROVAL OF FSAR UPDATE CHG NOTICE. CHG REQUIRED IN FSAR HELB ANALYSIS TO DELETE PT-432 WHICH HAD BEEN IDENTIFIED AS 'ESSENTIAL'. NO ADDITIONAL DCP ACTION REQUIRED. DEVIATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
8052	821025	DMD	0	821025	SWEC	OIR	SWEC	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: ENVIRONMENTAL QUALIFICATIONS ARE REQUIRED FOR CLASS IE COMPONENTS LOCATED IN HARSH ENVIRONMENT. FT 78 AND FCV 95 ARE LOCATED IN POTENTIALLY HARSH ENVIRONMENT. THEY REQUIRED ENVIR. QUALIFICATION AS A RESULT OF THEIR LOCATION AND FUNCTION. CLASS IE COMPONENTS REQUIRED TO FUNCTION MAY FAIL UNLESS QUALIFIED FOR POSTULATED SEVERE ENVIRONMENT.

8052	821025	DMD	1	821025	SWEC	PPRR/OIP	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: PG&E TO EVALUATE FT 78 AND FCV 95 AND QUALIFY THEM ENVIRONMENTALLY FOR THEIR FUNCTION AND LOCATION REGARDING THE POTENTIALLY HARSH ENVIRONMENT WHICH THEY MAY BE EXPOSED TO.

8052	821025	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: PG&E TO EVALUATE THE ENVIRONMENTAL QUALIFICATIONS FOR FT 78 AND FCV 95 WHICH ARE CLASS IE COMPONENTS LOCATED IN A POTENTIALLY HARSH ENVIRONMENT.

8052	821025	DMD	3	830223	TES	OIR	SWEC	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8052	821025	DMD	4	830225	SWEC	PPRR/DEV	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: SWEC HAS REVIEWED PG&E RESPONSE. PG&E STATES NRC AWARE OF STATUS OF ENVIR. QUAL. OF COMPONENTS AS RESULT OF 100% AUDIT OF PG&E E.Q. FILES. PG&E WILL CORRECT CLERICAL ERRORS IN REPORT TABLES ALTHOUGH DON'T INTEND TO REVISE OR REISSUE TO NRC. SWEC CONCLUDES CONCERN ADEQUATELY ADDRESSED.

8052	821025	DMD	5	830225	TES	PRR/DEV	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: FLOW CONTROL VALVES WERE ERRONEOUSLY LISTED IN A TABLE FOR ITEM NOT SUBJECT TO HARSH ENVIRONMENT. PRESSURE TRANS. ALTHOUGH NOT COMPLETELY QUALIFIED ARE SUBJECT TO A SURVEILLANCE PROGRAM AND NRC IS AWARE OF THIS STATUS, THEIR QUALIFICATION IS NO LONGER A CONCERN. NO FURTHER VERIFICATION IS REQUIRED.

8052	821025	DMD	6	830225	TES	CR	NONE	RRB	NO	AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS

COMMENT: ENVIR QUAL REQ FOR CL IE COMPONENTS LOCATED IN HARSH ENVIR. FLOW CONTROL VALVES WERE ERRONEOUSLY LISTED IN A TABLE FOR ITEM NOT SUBJECT TO HARSH ENVIR. PRESSURE TRANS ALTHOUGH NOT COMPLETELY QUAL ARE SUBJECT TO A SURVEILLANCE PROGRAM & NRC IS AWARE OF THIS STATUS, THEIR QUAL IS NO LONGER A CONCERN. NO FURTHER VERIFICATION IS REQUIRED. DEVIATION.

8053	821025	DMD	0	821025	SWEC	OIR	SWEC	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: INSTRUMENT SCHEMATIC 102931, SH 12, R.7, DESIGNATES RADIATION MONITORS 51, 52, 53, 54 AND ASSOC. LOOP DEVICES AS INST. CL. II. FSAR COMMITS TO DESIGN CL. I AND THEY WERE PURCHASED AS SUCH. INCORRECT INFO MAY HAVE BEEN IMPARTED ON INTERNAL DESIGN CHAIN RESULTING IN INSTALLATION THAT DOES NOT MEET DESIGN CL I CRITERIA.

8053	821025	DMD	1	821025	SWEC	PPRR/OIP	TES	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: PG&E TO EVALUATE RADIATION MONITORS 51, 52, 53, 54 AND THEIR ASSOCIATED LOOP DEVICES TO ENSURE THAT THE INTERNAL DESIGN CHANGE INSTALLATION RESULTS IN DESIGN CLASS I CRITERIA IS MET.

8053	821025	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: INCORRECT INFORMATION MAY HAVE IMPARTED TO PG&E INTERNAL DESIGN CHAIN RESULTING IN AN INSTALLATION THAT DOESN'T MEET DESIGN CLASS I CRITERIA. PG&E TO EVALUATE THE RADIATION MONITORS 51,52,53,54 AND ASSOCIATED LOOP DEVICES IDENTIFIED AS IC II WHICH WERE PURCHASED AS DESIGN CLASS I.

8053	821025	DMD	3	821217	TES	OIR	SWEC	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: SWEC TO REVIEW PG&E RESPONSE (REFERENCE PG&E RESOLUTION SHEET, IDVP FILE NO. 8053, REV. 1) AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.

8053	821025	DMD	4	830121	SWEC	PPRR/CI	TES	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: PG&E RESPONDED THAT INCORRECT DESIGN CLASS DESIGNATION FOR RM 51-54 WAS DUE TO DRAFTING ERROR ON INSTRUMENT SCHEMATIC 102931, SH. 12, R. 7. THERE IS NO INDICATION THAT THESE DEVICES WERE TREATED OTHER THAN DESIGN CL. I. SWEC STATES PG&E RESPONSE IS SATISFACTORY, RM WERE PURCHASED AND INSTALLED TO DESIGN CLASS I CRITERIA.

8053	821025	DMD	5	830209	SWEC	PPRR/DEV	TES	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: THIS PPRR IS REISSUED TO CLASSIFY THIS FILE AS A DEVIATION ON THE BASIS THAT A DEPARTURE FROM STANDARD PROCEDURE (DRAFTING ERROR) OCCURRED WHICH WAS NOT A MISTAKE IN ANALYSIS, DESIGN OR CONSTRUCTION.

8053	821025	DMD	6	830209	TES	PRR/DEV	TES	RRB		CRVP SYSTEM INSTRUMENTATION

COMMENT: SWEC HAS REVIEWED PG&E RESOLUTION AND COMPLETION SHEETS AND FOUND THE RESPONSE SATISFACTORY. SINCE A DRAFTING ERROR WAS REVEALED, THIS ITEM IS RECLASSIFIED AS A DEVIATION. CAN BE CLOSED IF NO MODS ARE REQUIRED.

8053	821025	DMD	7	830225	TES	CR	NONE	RRB	NO	CRVP SYSTEM INSTRUMENTATION

COMMENT: INST. SCHEMATIC DESIGNATES RAD MONITORS 51-54 AND ASSOC. LOOP DEVICES AS INST. CL. II. FSAR COMMITS TO DESIGN CL I. SWEC HAS REVIEWED PG&E RES. AND COMP. SHTS. AND FOUND THE RESPONSE SATISFACTORY. DRAFTING EERROR WAS REVEALED. RECLASSIFIED AS A DEVIATION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	MODS	PG&E SUBJECT
8052	821025	DMD	0	821025	SWEC	OIR	SWEC	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: ENVIRONMENTAL QUALIFICATIONS ARE REQUIRED FOR CLASS IE COMPONENTS LOCATED IN HARSH ENVIRONMENT. FT 78 AND FCV 95 ARE LOCATED IN POTENTIALLY HARSH ENVIRONMENT. THEY REQUIRED ENVIR. QUALIFICATION AS A RESULT OF THEIR LOCATION AND FUNCTION. CLASS IE COMPONENTS REQUIRED TO FUNCTION MAY FAIL UNLESS QUALIFIED FOR POSTULATED SEVERE ENVIRONMENT.										
8052	821025	DMD	1	821025	SWEC	PPRR/OIP	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: PG&E TO EVALUATE FT 78 AND FCV 95 AND QUALIFY THEM ENVIRONMENTALLY FOR THEIR FUNCTION AND LOCATION REGARDING THE POTENTIALLY HARSH ENVIRONMENT WHICH THEY MAY BE EXPOSED TO.										
8052	821025	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: PG&E TO EVALUATE THE ENVIRONMENTAL QUALIFICATIONS FOR FT 78 AND FCV 95 WHICH ARE CLASS IE COMPONENTS LOCATED IN A POTENTIALLY HARSH ENVIRONMENT.										
8052	821025	DMD	3	830223	TES	OIR	SWEC	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8052	821025	DMD	4	830225	SWEC	PPRR/DEV	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: SWEC HAS REVIEWED PG&E RESPONSE. PG&E STATES NRC AWARE OF STATUS OF ENVIR. QUAL. OF COMPONENTS AS RESULT OF 100% AUDIT OF PG&E E.Q. FILES. PG&E WILL CORRECT CLERICAL ERRORS IN REPORT TABLES ALTHOUGH DON'T INTEND TO REVISE OR REISSUE TO NRC. SWEC CONCLUDES CONCERN ADEQUATELY ADDRESSED.										
8052	821025	DMD	5	830225	TES	PRR/DEV	TES	RRB		AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: FLOW CONTROL VALVES WERE ERRONEOUSLY LISTED IN A TABLE FOR ITEM NOT SUBJECT TO HARSH ENVIRONMENT, PRESSURE TRANS. ALTHOUGH NOT COMPLETELY QUALIFIED ARE SUBJECT TO A SURVEILLANCE PROGRAM AND NRC IS AWARE OF THIS STATUS, THEIR QUALIFICATION IS NO LONGER A CONCERN. NO FURTHER VERIFICATION IS REQUIRED.										
8052	821025	DMD	6	830225	TES	CR	NONE	RRB	NO	AUX. FEEDWATER SYSTEM CLASS IE INSTRUMENTS
COMMENT: ENVIR QUAL REQ FOR CL IE COMPONENTS LOCATED IN HARSH ENVIR. FLOW CONTROL VALVES WERE ERRONEOUSLY LISTED IN A TABLE FOR ITEM NOT SUBJECT TO HARSH ENVIR. PRESSURE TRANS ALTHOUGH NOT COMPLETELY QUAL ARE SUBJECT TO A SURVEILLANCE PROGRAM & NRC IS AWARE OF THIS STATUS, THEIR QUAL IS NO LONGER A CONCERN. NO FURTHER VERIFICATION IS REQUIRED. DEVIATION.										
8053	821025	DMD	0	821025	SWEC	OIR	SWEC	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: INSTRUMENT SCHEMATIC 102931, SH 12, R.7, DESIGNATES RADIATION MONITORS 51, 52, 53, 54 AND ASSOC. LOOP DEVICES AS INST. CL. II. FSAR COMMITS TO DESIGN CL. I AND THEY WERE PURCHASED AS SUCH. INCORRECT INFO MAY HAVE BEEN IMPARTED ON INTERNAL DESIGN CHAIN RESULTING IN INSTALLATION THAT DOES NOT MEET DESIGN CL I CRITERIA.										
8053	821025	DMD	1	821025	SWEC	PPRR/OIP	TES	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: PG&E TO EVALUATE RADIATION MONITORS 51, 52, 53, 54 AND THEIR ASSOCIATED LOOP DEVICES TO ENSURE THAT THE INTERNAL DESIGN CHANGE INSTALLATION RESULTS IN DESIGN CLASS I CRITERIA IS MET.										
8053	821025	DMD	2	821118	TES	PRR/OIP	PG&E	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: INCORRECT INFORMATION MAY HAVE IMPARTED TO PG&E INTERNAL DESIGN CHAIN RESULTING IN AN INSTALLATION THAT DOESN'T MEET DESIGN CLASS I CRITERIA. PG&E TO EVALUATE THE RADIATION MONITORS 51,52,53,54 AND ASSOCIATED LOOP DEVICES IDENTIFIED AS IC II WHICH WERE PURCHASED AS DESIGN CLASS I.										
8053	821025	DMD	3	821217	TES	OIR	SWEC	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: SWEC TO REVIEW PG&E RESPONSE (REFERENCE PG&E RESOLUTION SHEET, IDVP FILE NO. 8053, REV. 1) AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8053	821025	DMD	4	830121	SWEC	PPRR/CI	TES	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: PG&E RESPONDED THAT INCORRECT DESIGN CLASS DESIGNATION FOR RM 51-54 WAS DUE TO DRAFTING ERROR ON INSTRUMENT SCHEMATIC 102931, SH. 12, R. 7. THERE IS NO INDICATION THAT THESE DEVICES WERE TREATED OTHER THAN DESIGN CL. I. SWEC STATES PG&E RESPONSE IS SATISFACTORY, RM WERE PURCHASED AND INSTALLED TO DESIGN CLASS I CRITERIA.										
8053	821025	DMD	5	830209	SWEC	PPRR/DEV	TES	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: THIS PPRR IS REISSUED TO CLASSIFY THIS FILE AS A DEVIATION ON THE BASIS THAT A DEPARTURE FROM STANDARD PROCEDURE (DRAFTING ERROR) OCCURRED WHICH WAS NOT A MISTAKE IN ANALYSIS, DESIGN OR CONSTRUCTION.										
8053	821025	DMD	6	830209	TES	PRR/DEV	TES	RRB		CRVP SYSTEM INSTRUMENTATION
COMMENT: SWEC HAS REVIEWED PG&E RESOLUTION AND COMPLETION SHEETS AND FOUND THE RESPONSE SATISFACTORY. SINCE A DRAFTING ERROR WAS REVEALED, THIS ITEM IS RECLASSIFIED AS A DEVIATION. CAN BE CLOSED IF NO MODS ARE REQUIRED.										
8053	821025	DMD	7	830225	TES	CR	NONE	RRB	NO	CRVP SYSTEM INSTRUMENTATION
COMMENT: INST. SCHEMATIC DESIGNATES RAD MONITORS 51-54 AND ASSOC. LOOP DEVICES AS INST. CL. II. FSAR COMMITS TO DESIGN CL I. SWEC HAS REVIEWED PG&E RES. AND COMP. SHTS. AND FOUND THE RESPONSE SATISFACTORY. DRAFTING EERROR WAS REVEALED. RECLASSIFIED AS A DEVIATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8054	821025	FID	0	821025	SWEC	OIR	SWEC	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: SAFETY RELATED CONTROL CABLE AND CIRCUITS NOT NECESSARILY IN ACCORDANCE W/FSAR SECTION 8.3.3 VIOLATES IEEE 308-1971 AND FSAR COMMITMENT TO MEET SINGLE FAILURE CRITERIA THROUGH SEPARATION OF CLASS 1 ELECTRICAL CIRCUITS.										
8054	821025	FID	1	821025	SWEC	PER/AB	TES	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: IDENTIFY SAFETY-RELATED CIRCUITS WITH IMPROPER CABLE COLOR IDENTIFICATION AND CORRECT TO CONFORM TO CRITERIA STATED IN LICENSING DOCUMENTS.										
8054	821025	FID	2	821118	TES	ER/AB	PG&E	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: PG&E TO IDENTIFY SAFETY-RELATED CIRCUITS WITH IMPROPER CABLE COLOR IDENTIFICATION AND CORRECT TO CONFORM TO CRITERIA STATED IN LICENSING DOCUMENTS.										
8054	821025	FID	3	830309	TES	OIR	SWEC	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: SWEC TO REVIEW DCP RESOLUTION AND COMPLETION SHEETS, DATED 830304 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8054	821025	FID	4	830311	SWEC	PPRR/DEV	TES	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: BASED ON REVIEW OF DCP RESPONSE OF 830128 AND 0304, A VIOLATION OF FSAR LICENSING COMMITMENTS TO SEPARATION IN THIS EQ: HAVE NOT BEEN IDENTIFIED. ASSOC. CONCERNS OF CABLE ID. AND CABLE SEPARATION WITHIN PANELS WILL BE ADDRESSED IN 8059 AND 8057 RESPECT. DOWNGRADED FROM ER/AB.										
8054	821025	FID	5	830315	TES	PRR/DEV	TES	RRB		AUXILIARY FEEDWATER-CONTROLS
COMMENT: BASED ON DCP DOCUMENTATION, IT'S BEEN DETERMINED THAT CONTROL CIRCUITS IDENTIFIED IN APPLICABLE DCP DRAWINGS AS CLASS 1E ARE, IN FACT, NOT CLASS 1E. RECLASSIFIED FROM ER/AB SINCE DRAWINGS REFLECT INCORRECT DESIGNATION AND NO ERROR OR VIOLATION OF FSAR MADE RE. SEPARATION OF CABLING.										
8054	821025	FID	6	830315	TES	CR	NONE	RRB	NO	AUXILIARY FEEDWATER-CONTROLS
COMMENT: S-R CONTROL CABLE NOT NECESSARILY CODED PER FSAR. BASED ON DCP DOCUMENTATION, IT'S BEEN DETERMINED THAT CONTROL CIRCUITS IDENTIFIED IN APPLICABLE DCP DRAWINGS AS CLASS 1E ARE, IN FACT, NOT CLASS 1E. RECLASSIFIED FROM ER/AB TO DEVIATION SINCE DRAWINGS REFLECT INCORRECT DESIGNATION AND NO ERROR OR VIOLATION OF FSAR MADE RE. SEPARATION OF CABLING.										
8055	821025	FID	0	821025	SWEC	OIR	SWEC	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: CLASS I PRESSURE INDICATORS PI-52A AND PI-53A LOCATED ON MAIN CONTROL BOARD, DO NOT HAVE MINIMUM 5' SEPARATION COMMITTED TO IN FSAR SECT. 8.3.3 FOR CLASS I ELECTRICAL DEVICES. THE INDICATORS DO NOT CONFORM TO SEPARATION CRITERIA DESCRIBED IN FSAR.										
8055	821025	FID	1	821025	SWEC	PER/AB	TES	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: PG&E TO MODIFY INSTRUMENT INSTALLATION TO CONFORM TO SEPARATION REQUIREMENTS OF THE FSAR SECTION 8.3.3.										
8055	821025	FID	2	821118	TES	ER/AB	PG&E	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: CLASS I PRESSURE INDICATORS LOCATED ON MAIN CONTROL BOARD DO NOT HAVE MIN SEPARATION OF 5' COMMITTED TO IN FSAR. PG&E TO MODIFY INDICATORS TO CONFORM TO FSAR SEPARATION REQUIREMENTS.										
8055	821025	FID	3	830222	TES	OIR	SWEC	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: SWEC TO REVIEW PG&E RESPONSE (REF. PG&E RESOLUTION SHEET, IDVP FILE NO. 8055, REV. 2) AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8055	821025	FID	4	830222	SWEC	PER/C	TES	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: MUTUALLY REDUNDANT CL. I PRESSURE INDICATORS P153A AND 152A ON MAIN CONTROL BOARD NOT INSTALLED ACCORDING TO FSAR. SWEC REVIEWED PG&E RESOLUTION SHEET AND STATES MOD TO FSAR WILL BE SATISFACTORY. DOWNGRADED FROM ER/AB.										
8055	821025	FID	5	830311	TES	ER/C	PG&E	RRB		AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: PG&E RESPONSE, FSAR COM. TO SEP. INTENDED FOR CURRENT CARRYING PORTIONS OF MUTUALLY REDUND. CONTROLS, NOT LOW ENERGY AND VOLTAGE SIGNALS. MOD TO FSAR SATISFACTORY IN LIEU OF PHYSICAL MOD, THUS ELIMINATES GENERIC CONCERN. DOWNGRADED FROM ER/AB.										
8055	821025	FID	6	830311	TES	CR	NONE	RRB	NO	AFW PRESSURE INDICATORS PI-52A & PI-53A
COMMENT: CL I PRESSURE IND LOCATED ON MAIN CONTROL BOARD DON'T HAVE MIN 5' SEP. COMMITTED TO FSAR. PG&E RESPONSE, FSAR COM TO SEP INTENDED FOR CURRENT CARRYING PORTIONS OF MUTUALLY REDUND. CONTROLS, NOT LOW ENERGY AND VOLTAGE SIGNALS. MOD TO FSAR SATISFACTORY IN LIEU OF PHYSICAL MOD, THUS ELIMINATES GENERIC CONCERN. DOWNGRADED FROM ER/AB. ER/C.										
8056	821025	OD	0	821025	SWEC	OIR	SWEC	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: CLASS IE EQUIPMENT SHOWN WITHIN BOUNDRIES OF CRVP WAS NOT ADDRESSED IN PG&E'S ENVIRONMENTAL QUALIFICATION REPORT, REV.1 SEPTEMBER 1981. APP E OF NUREG 0588 REQUIRES ALL CLASS IE EQUIPMENT TO BE IDENTIFIED. THE SYSTEM MAY NOT HAVE BEEN ANALYZED TO DETERMINE IF ITS CLASS IE COMPONENTS REQUIRE ENVIRONMENTAL QUALIFICATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8056	821025	OD	1	821025	SWEC	PPRR/OIP	TES	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: PG&E TO EVALUATE THE CLASS IE COMPONENTS IN THE CR. PRESSURIZATION SYSTEM WITH REGARD TO NUREG-0588.										
8056	821025	OD	2	821118	TES	PRR/OIP	PG&E	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: PG&E TO EVALUATE CLASS IE COMPONENTS IN CR PRESSURIZATION SYSTEM WITH REGARD TO NUREG-0588. COMPLETED PG&E RESOLUTION SHOULD BE DOCUMENTED FOR INDEPENDENT REVIEW BY SWEC.										
8056	821025	OD	3	830223	TES	OIR	SWEC	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8056	821025	OD	4	830225	SWEC	PPRR/CI	TES	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: SWEC REVIEWED PG&E COMP PACKAGE AND CONCLUDES NO ERROR OR DEVIATION BASED ON COMPLETION DATE FOR CL. IE EQUIPMENT PREDATED APPLICABLE REV. OF CRVP PIPING AND INST. SCHM. PG&E TO UPDATE CL IE FILES AFTER RESPONSE TO 8001 IS COMPLETED.										
8056	821025	OD	5	830225	TES	PRR/CI	TES	RRB		CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: PG&E COMP SHEET INDICATED COMPILATION OF CL IE EQUIPMENT PREDATES FINAL DRAWING OF CRVP SYSTEM, THEREFORE DOESN'T INCL. ITEM APPEARING ON THOSE DRAWINGS. SINCE NO SCHEDULE REQ. TO UPDATE ENVIRONMENTAL QUAL. RPT. IN RESPONSE TO COMM. ORDER CLI-80-21, FILE RECLASSIFIED AS CLOSED ITEM.										
8056	821025	OD	6	830225	TES	CR	NONE	RRB	NO	CRVP SYSTEM - CLASS IE EQUIPMENT
COMMENT: PG&E COMP SHEET INDICATED COMPILATION OF CL IE EQUIPMENT PREDATES FINAL DRAWING OF CRVP SYSTEM, THEREFORE DOESN'T INCL. ITEM APPEARING ON THOSE DRAWINGS. SINCE NO SCHEDULE REQ. TO UPDATE ENVIRONMENTAL QUAL. RPT. IN RESPONSE TO COMM. ORDER CLI-80-21, FILE RECLASSIFIED AS CLOSED ITEM.										
8057	821025	FID	0	821025	SWEC	OIR	SWEC	RRB		AFW AND CRVP CONTROL PANELS
COMMENT: CONTROL PANELS ASSOCIATED W/AFW AND CRVP SYSTEM CONTAIN CIRCUITS WHICH DO NOT MEET SEPARATION CRITERIA ESTABLISHED IN FSAR SECTION 8.3.3. CLASS IE CIRCUITS DO NOT MEET SINGLE FAILURE CRITERIA DUE TO LACK OF PHYSICAL SEPARATION.										
8057	821025	FID	1	821028	SWEC	PER/AB	TES	RRB		AFW AND CRVP CONTROL PANELS
COMMENT: PG&E TO COMPLY WITH THE SEPARATION CRITERIA ESTABLISHED IN FSAR SECTION 8.3.3.										
8057	821025	FID	2	821118	TES	ER/AB	PG&E	RRB	YES	AFW AND CRVP CONTROL PANELS
COMMENT: ONE OR MORE DISCREPANCIES NOTED IN SEVERAL CONTROL PANELS. CLASS IE CIRCUITS DO NOT MEET SINGLE FAILURE CRITERIA DUE TO LACK OF PHYSICAL SEPARATION. PG&E TO COMPLY WITH SEPARATION CRITERIA ESTABLISHED IN FSAR SECTION 8.3.3.										
8057	821025	FID	3	830311	TES	OIR	SWEC	RRB	YES	AFW AND CRVP CONTROL PANELS
COMMENT: SWEC TO REVIEW PG&E RESOLUTION SHEET DATED 830307 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8057	821025	FID	4	830311	SWEC	PER/A	TES	RRB	YES	AFW AND CRVP CONTROL PANELS
COMMENT: CONTROL PANELS ASSOC. W/AFW AND CRVP SYS CONTAIN CIRCUITS WHICH DON'T MEET SEPARATION CRITERIA IN FSAR SEC. 8.3.3. SWEC REVIEWED DCP 830308 RESPONSE AND FOUND PROPOSED MODS ADEQUATE. DCP ALSO PROPOSED GENERIC CONCERNS BE SUBJECT OF ADDED VERIFICATION. SWEC TO FIELD VERIFY MODS. RECLASSIFIED FROM ER/AB.										
8057	821025	FID	5	830315	TES	ER/A	PG&E	RRB	YES	AFW AND CRVP CONTROL PANELS
COMMENT: CL. IE CIRCUITS DON'T MEET SINGLE FAILURE CRITERIA. PG&E RES SHT DATED 830307 WAS REVIEWED AND FOUND ADEQUATE AS WAS THE PROPOSED MODS. DCP ALSO PROPOSED (830308 LTR. DCVP-TES-869) GENERIC CONCERNS OF OPEN ITEM AND RES BE SUBJECT OF ADDED VERIFICATION. PG&E TO COMPLY W/FSAR 8.3.3. RECLASSIFIED FROM ER/AB.										
8057	0		6	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
8057	0		7	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										
8057	0		8	0						
COMMENT: SPACE RESERVED FOR LATER REVISIONS.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8057		0	9	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8057		0	10	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8057		0	11	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8058	821029	DMD	0	821029	SWEC	OIR	SWEC	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: CLASS IE LCV 110, 111, 113 AND 115 FOR AFW SYSTEM NOT QUALIFIED IN CONFORMANCE TO NUREG 0588 MAY NOT FUNCTION RELIABLY IN A SEVERE ENVIRONMENT RESULTING IN THE LOSS OF PART OR ALL OF A SAFETY-RELATED SYSTEM.

8058	821029	DMD	1	821109	SWEC	PPRR/OIP	TES	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: PG&E TO PROVIDE SWEC W/DOCUMENTATION THAT THE VALVE IS PROPERLY QUALIFIED TO PERFORM IN A SEVERE ENVIRONMENT AND THAT A FAILURE OF THE FAIL-SAFE MECHANISM WILL NOT PREVENT THE VALVE FROM OPENING FULLY.

8058	821029	DMD	2	821123	TES	PRR/OIP	PG&E	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: PG&E TO PROVIDE DOCUMENTATION THAT THE VALVE IS PROPERLY QUALIFIED TO PERFORM IN A SEVERE ENVIRONMENT AND THAT A FAILURE OF THE FAIL-SAFE MECHANISM WILL NOT PREVENT THE VALVE FROM OPENING FULLY.

8058	821029	DMD	3	830225	TES	OIR	SWEC	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: SWEC TO REVIEW PG&E COMPLETION SHEET DATED 830207 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8058	821029	DMD	4	830304	SWEC	PPRR/CI	TES	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: SWEC CONCLUDES THAT DCP RESPONSE SATISFIES THE TWO CONCERNS OF THIS FILE. DCP HAS COMMITTED TO RESOLVING THE OUTSTANDING ITEMS PREVIOUSLY IDENTIFIED TO THE NRC. NO PHYSICAL MODS OR ADDITIONAL VERIFICATION IS REQUIRED AS A RESULT OF THIS FILE.

8058	821029	DMD	5	830309	TES	PRR/CI	TES	RRB		AFW LCV'S 110, 111, 113 AND 115

COMMENT: DCP 830207 RESPONSE ADDRESSES TWO CONCERNS IDENTIFIED. DCP TO SATISFY QUALIFICATION OF MOTOR CAPACIATOR ID. BY NRC. FAIL-SAFE NOT REQUIRED DURING REMOTE VALVE OPERATION; ONLY WHEN POWER OR CONTROL DE-ENERGIZED. NO ADDITIONAL VERIF. REQUIRED.

8058	821029	DMD	6	830309	TES	CR	NONE	RRB	NO	AFW LCV'S 110, 111, 113 AND 115

COMMENT: AFW LCV'S NOT QUALIFIED TO NUREG 0588 AND MAY NOT BE RELIABLE IN SEVERE ENVIRONMENT. DCP 830207 RESPONSE ADDRESSES TWO CONCERNS IDENTIFIED. DCP TO SATISFY QUALIFICATION OF MOTOR CAPACITOR ID. TO NRC. FAIL-SAFE NOT REQUIRED DURING REMOTE VALVE OPERATION, ONLY WHEN POWER OR CONTROL DE-ENERGIZED. NO ADDITIONAL VERIF. REQUIRED. CLOSED ITEM.

8059	821029	FID	0	821029	SWEC	OIR	SWEC	RRB		AFW & CRVP CONTROL PANELS AND RACEWAYS

COMMENT: WIRING FOR CLASS IE CIRCUITS IS NOT READILY IDENTIFIABLE FROM NON-CLASS IE CIRCUITS. THIS DOES NOT MEET THE INTENT OF IEEE 308-1971 AND MAY RESULT IN THE LOSS OF A SAFETY-RELATED FUNCTION WHICH COULD OCCUR DUE TO THE LACK OF SEPARATION OF REDUNDANT CLASS IE AND NON-CLASS IE CABLES.

8059	821029	FID	1	821029	SWEC	PPRR/OIP	TES	RRB		AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS

COMMENT: PG&E TO EVALUATE WIRING FOR CLASS IE CIRCUITS NOT READILY IDENTIFIABLE FROM NON-CLASS IE CIRCUITS.

8059	821029	FID	2	821123	TES	PRR/OIP	PG&E	RRB		AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS

COMMENT: PG&E TO EVALUATE SPECIFIC PANELS IN CRVP WHICH CONTAIN NON-CL. IE CIRCUITS THAT ARE COLOR CODED ACCORDING TO CRITERIA FOR CL.IE CIRCUITS IN FSAR SECT.8.3.3. THIS DOES NOT MEET INTENT OF IEEE 308-1971 AND MAY RESULT IN LOSS OF A SAFETY-RELATED FUNCTION WHICH COULD OCCUR DUE TO LACK OF REDUNDANT CL. IE AND NON-CL. IE CABLES.

8059	821029	FID	3	830401	TES	OIR	SWEC	RRB		AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS

COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET, IDVP FILE 8059, SIGNED 830210 AND DCP LETTER, FILES 8055 AND 8059 DATED 830311, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITON.

8059	821029	FID	4	830404	SWEC	PER/C	TES	RRB		AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS

COMMENT: S-R CIRCUITS NOT READILY IDENTIFIABLE FROM NON-S-R CIRCUITS. ELECTRICAL SYSTEM ID DEFINED IN FSAR SECT 8.3.3 DIDN'T ACCURATELY DESCRIBE THE ACTUAL INSTALLED CONTROL WIRING FOR EQUIPMENT IN THE CRVP AND AFW SYSTEMS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8059	821029	FID	5	830407	TES	ER/C	PG&E	RRB		AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS
COMMENT: DCP 830325 COMP. SHT. PROVIDED ADDED WORDING FOR FSAR RE: METHOD OF COLOR CODING FOR CIRCUITS RELATED TO S-R DEVICES, TRAINS, OR CIRCUITS AND EXPLANATION OF COLOR-CODING OF THESE CIRCUITS. IDVP CONCURS MOD TO FSAR WILL REFLECT AS-BUILT OF PLANT.										
8059	821029	FID	6	830407	TES	CR	NONE	RRB	NO	AFW SYS & CRVP SYS CONTROL PANELS & RACEWAYS
COMMENT: S-R CIRCUITS NOT READILY ID FROM NON S-R CIRCUITS. DCP 830325 COMP. SHT. PROVIDED ADDED WORDING FOR FSAR RE: METHOD OF COLOR CODING FOR CIRCUITS RELATED TO S-R DEVICES, TRAINS, OR CIRCUITS AND EXPLANATION OF COLOR-CODING OF THESE CIRCUITS. IDVP CONCURS MOD TO FSAR WILL REFLECT AS-BUILT OF PLANT. ER/C.										
8060	821029	DMD	0	821029	SWEC	OIR	SWEC	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: FAILURE OF THE PUMP PRESSURE CONTROL (RUNOUT) SYSTEM TO MAINTAIN A MINIMUM DISCHARGE PRESSURE COULD RESULT IN PUMP RUNOUT AND AN AUTOMATIC SHUTDOWN OF THE PUMP DURING AN ACCIDENT WHEN IT IS REQUIRED FOR SAFE SHUTDOWN.										
8060	821029	DMD	1	821109	SWEC	PPRR/OIP	TES	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: PG&E TO PROVIDE SWEC WITH DOCUMENTATION AND/OR TEST DATA THAT AFW PUMP RUNOUT CONTROL SYSTEM WILL PREVENT PUMP RUNOUT, DYNAMIC STABILITY OF PUMP RUNOUT AND STEAM GEN.LEVEL CONTROLS , AND DESIGN FLOW TO STEAM GENERATORS WILL NOT BE INHIBITED BY PUMP RUNOUT CONTROLS.										
8060	821029	DMD	2	821123	TES	PRR/OIP	PG&E	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: PG&E TO PROVIDE DOCUMENTATION AND/OR TEST DATA SHOWING AFW PUMP RUNOUT CONTROL WILL PREVENT PUMP RUNOUT YET PERMIT DESIGN FLOW. ALSO DOCUMENT DYNAMIC STABILITY OF PUMP RUNOUT AND STEAM GENERATOR LEVEL CONTROLS AND THAT DESIGN FLOW WILL NOT BE INHIBITED BY PUMP RUNOUT CONTROLS CONSIDERING INSTRUMENT SETPOINTS AND ACCURACY.										
8060	821029	DMD	3	830302	TES	OIR	SWEC	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: SWEC TO REVIEW THE DCP RESOLUTION SHEET, IDVP FILE NO. 8060, SIGNED 830217, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8060	821029	DMD	4	830311	SWEC	PER/C	TES	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: SWEC REVIEWED DCP RESPONSES OF 830217, 0308, AND 0310. DCP COMPLETED CALCS REVISING RUNOUT CONTROL SET POINTS AND INSTRUCTED FIELD TO COMP MODS. PG&E COMMITTED TO VERIFY SYSTEM DURING AFW SYSTEM STARTUP TESTING.										
8060	821029	DMD	5	830315	TES	ER/C	PG&E	RRB		AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: DCP RESPONSE HAS BEEN REVIEWED AND FOUND ADEQUATE. DCP COMPLETED RUNOUT CONTROL SETPOINT CALCS AND INSTRUCTED FIELD FOR MODS. THIS ALSO DECREASES PROBABILITY OF DYNAMIC INSTABILITY. PG&E FURTHER COMMITTED TO VERIFY STABILITY DURING AFW START-UP TESTING. NO GENERIC CONCERN OF RUNOUT CONTROL SYSTEM.										
8060	821029	DMD	6	830315	TES	CR	NONE	RRB	NO	AFW CONTROLS FOR LIMITING FLOW TO DEP.STEAM GEN.
COMMENT: PUMP RUNOUT POSSIBLE DUE TO FAILURE OF MIN DISCHRG. PRESSURE. DCP RESPONSE HAS BEEN REVIEWED & FOUND ADEQ. DCP COMPLETED RUNOUT CONTROL SETPOINT CALCS & INSTRUCTED FIELD FOR MODS. THIS ALSO DECREASES PROBABILITY OF DYNAMIC INSTABILITY. PG&E FURTHER COMMITTED TO VERIFY STABILITY DURING AFW STARTUP TESTING. NO GENERIC CONCERN OF RUNOUT CONTROL SYSTEM. ER/C.										
8061	821109	OD	0	821109	SWEC	OIR	SWEC	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: MOTORS REQUIRED TO START AT VOLTAGES LESS THAN RATED STARTING VOLTAGE, MAY REQUIRE EXCESSIVE TIME TO ACCELERATE TO FULL LOAD SPEED. THIS MAY CAUSE OVERCURRENT TRIP OF PROTECTIVE RELAYS.										
8061	821109	OD	1	821123	SWEC	OIR	SWEC	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: AVAILABLE DOCUMENTATION DOESN'T VERIFY CAPABILITY OF MOTORS TO START AND FUNCTION W/80% RATED VOLTAGE APPLIED AT THEIR TERMINALS. MOTORS REQUIRED TO START AT VOLTAGES LESS THAN RATED STARTING VOLTAGE, MAY REQUIRE EXCESSIVE TIME TO ACCELERATE TO FULL LOAD SPEED. THIS MAY CAUSE OVERCURRENT TRIP OF PROTECTIVE RELAYS.										
8061	821109	OD	2	821123	SWEC	PER/B	TES	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: AVAILABLE DOCUMENTATION DOESN'T VERIFY CAPABILITY OF MOTORS TO START AND FUNCTION W/80% RATED VOLTAGE APPLIED AT THEIR TERMINALS. MOTORS REQUIRED TO START AT VOLTAGES LESS THAN RATED STARTING VOLTAGE, MAY REQUIRE EXCESSIVE TIME TO ACCELERATE TO FULL LOAD SPEED. THIS MAY CAUSE OVERCURRENT TRIP OF PROTECTIVE RELAYS.										
8061	821109	OD	3	821206	TES	ER/B	PG&E	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: PG&E TO REANALYZE MOTOR'S CAPABILITY TO ACCELERATE COUPLED EQUIPMENT UNDER LOAD CONDITIONS TO FULL LOAD SPEED AT 80% OF RATED VOLTAGE. ACCELERATING TIMES MUST BE COMPATIBLE WITH MOTOR THERMAL LIMIT AND OVER CURRENT RELAY SETTINGS.										
8061	821109	OD	4	830124	TES	OIR	SWEC	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: DCP TO PROVIDE DOCUMENTATION VERIFYING MOTORS' CAPABILITY TO START AND ACCELERATE TO FULL LOAD SPEED AT 80% OF RATED VOLTAGE. DOCUMENTATION SHOULD BE THE PURCHASE SPECIFICATION SPECIFYING 80% START CAPABILITY AND A STATEMENT FROM VENDOR SHOWING HIS COMPLIANCE WITH THE PURCHASE SPECIFICATION.										
8061	821109	OD	5	830210	SWEC	PPRR/OIP	TES	JWW		MOTOR RATINGS-AFW AND CRVP
COMMENT: DCP TO PROVIDE DOCUMENTATION VERIFYING MOTOR'S CAPABILITY TO START AND ACCELERATE TO FULL LOAD SPEED AT 80% OF RATED VOLT. DOC. SHOULD BE PURCHASE SPEC SPECIFYING 80% START CAPABILITY AND STATEMENT FROM VENDOR SHOWING COMPLIANCE WITH SPEC.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORS	TES	PG&E MODS	SUBJECT
8061	821109	OD	6	830209	TES	PRR/OIP	PG&E JWW			MOTOR RATINGS-AFW AND CRVP
COMMENT: DCP TO PROVIDE DOCUMENTATION VERIFYING MOTOR'S CAPABILITY TO START AND ACCELERATE TO FULL-LOAD SPEED AT 80% OF RATED VOLTAGE. DOCUMENTATION SHOULD BE THE PURCHASE SPECIFICATION SPECIFYING 80% START CAPABILITY AND A STATEMENT FROM VENDOR SHOWING HIS COMPLIANCE WITH THE PURCHASE SPECIFICATION.										
8061	821109	OD	7	830310	TES	OIR	SWEC JWW			MOTOR RATINGS-AFW AND CRVP
COMMENT: SWEC TO REVIEW THE DCP RESPONSE, DATED 830307, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8061	821109	OD	8	830311	SWEC	PPRR/DEV	TES JWW			MOTOR RATINGS-AFW AND CRVP
COMMENT: SWEC HAS REVIEWED PG&E COMP PACKAGE SIGNED 830307 AND CONSIDERS IT TO SHOW CAPABILITY OF S-R MOTORS TO START AND ACCELERATE TO RATED SPEED W/80% RATED VOLTAGE APPLIED AT TERMINALS. RECLASSIFIED FROM ER/B.										
8061	821109	OD	9	830315	TES	PRR/DEV	TES JWW			MOTOR RATINGS-AFW AND CRVP
COMMENT: DCP COMP PACKAGE SIGNED 830307 ACCEPTABLE WHICH INDICATES SATISFACTORY CAPABILITY OF S-R MOTORS TO START AND ACCELERATE TO RATED SPEEDS W/80% RATED VOLTAGE APPLIED AT TERMINALS.										
8061	821109	OD	10	830315	TES	CR	NONE JWW	NO		MOTOR RATINGS-AFW AND CRVP
COMMENT: MOTORS MAY REQUIRE EXCESSIVE TIME TO ACCELERATE TO FULL LOAD SPEED. DCP COMP PACKAGE SIGNED 830307 ACCEPTABLE WHICH INDICATES SATISFACTORY CAPABILITY OF S-R MOTORS TO START AND ACCELERATE TO RATED SPEEDS W/80% RATED VOLTAGE APPLIED AT TERMINALS. DEVIATION.										
8062	821118	DMD	0	821118	SWEC	OIR	SWEC LCN			AFW CONTROL VALVES FCV37,38 AND 95
COMMENT: FCV'S DESIGNED TO OPEN CLOSE AGAINST MAX OF 805 PSI. VALVES COULD BE REQUIRED TO OPERATE AGAINST MAX OF 1100 PSI. VALVE OPERATORS MAY NOT FUNCTION UNDER CONDITIONS WHERE DIFFERENTIAL PRESSURE EXCEEDS 805 PSI.										
8062	821118	DMD	1	821118	SWEC	PPRR/OIP	TES LCN			AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: PG&E SHOULD EVALUATE VALVE OPERATORS ABILITY TO POSITION VALVES AGAINST CALCULATED MAX DIFFERENTIAL PRESSURE AGAINST WHICH VALVES MUST FUNCTION. SUPPORTING DOCUMENTATION SHOULD BE INDEPENDENTLY REVIEWED BY SWEC.										
8062	821118	DMD	2	821122	TES	PRR/OIP	PG&E LCN			AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: PG&E SHOULD EVALUATE THE OPERATOR'S ABILITY TO POSITION THE VALVES AGAINST CALCULATED MAX DIFFERENTIAL PRESSURE AGAINST WHICH THE VALVES MUST FUNCTION.										
8062	821118	DMD	3	830219	TES	OIR	SWEC LCN			AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: SWEC TO REVIEW DCP RESOLUTION SHEET, SIGNED 830210 AND PROVIDE RECOMMENDATION FOR FUTURE DISPOSITION.										
8062	821118	DMD	4	830304	SWEC	PER/A	TES LCN			AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: VALVES FCV 37, 38, OR 95 MAY NOT FUNCTION UNDER CONDITIONS WHERE DIFFERENTIAL PRESSURE EXCEEDS 805 PSI. IDVP WILL FIELD VERIFY THAT FCV 95 OPERATOR IS CHANGED TO DC POWERED OPERATION AND GEAR MODS HAVE BEEN MADE. ADDITIONAL VERIFICATION FOR DIFFERENTIAL PRESSURE ACROSS POWER OPERATED VALVES IS DESCRIBED IN ITR-34.										
8062	821118	DMD	5	830310	TES	ER/A	PG&E LCN	YES		AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: VALVES PURCHASED TO OPERATE AT MAX DIFF PRESSURE OF 805 BUT COULD SEE IN EXCESS OF 1100 PSI. CONCERN OF FCV 37 & 38 RESOLVED BY 830210 DCP RESPONSE TO 8062 AND EOI 8018 DATED 830301. CONCERN OF FCV 95 RESOLVED BY MOD TO DC ACTUATOR TO BE VERIFIED BY IDVP. GENERIC CONCERN RE. VALVE DIFF. PRESSURE IN ITR-34.										
8062	821118	DMD	6	830601	TES	OIR	SWEC LCN	YES		AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: TES REQUESTS SWEC TO REVIEW THE DCP COMPLETION SHEET, SIGNED 830527, AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
8062	821118	DMD	7	830601	SWEC	PPRR/CI	TES LCN	YES		AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT: GEAR MODIFICATIONS HAVE BEEN MADE TO THE ACTUATOR INTERNALS FOR FCV95, AS DOCUMENTED BY PG&E PLANT MODIFICATION FOLLOWER FOR DCN-DCO-E-M-549, REV. 1. THE ACTUATOR WAS FIELD VERIFIED AS DC POWERED.										
8062	821118	DMD	8	830602	TES	PRR/CI	TES LCN	YES		AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT:										
8062	821118	DMD	9	830602	TES	CR	NONE LCN	YES		AFW CONTROL VALVES FCV37, 38, & 95.
COMMENT:										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
8063	821122	OD	0	821122	SWEC	OIR	SWEC	JWW		AFW PUMPS 12 AND 13

COMMENT: OVERCURRENT PROTECTIVE RELAYS SET AT TAP 4.0 AMP TO TRIP AT 107% OF FULL MOTOR LOAD CURRENT FOR BOTH AFW PUMPS. THE 107% RELAY SETTING WAS VERIFIED BY FIELD INSPECTION. IF AFW PUMPS REQ.TO OPERATE AT NORMAL MIN.V.RATING,(90% OF NAME PLATE RATING) MOTORS WILL BE TRIPPED BY THEIR OVERCURRENT PROTECTIVE RELAYS.

8063	821122	OD	1	821122	SWEC	PEN'A	TES	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: OVERCURRENT RELAY SETTINGS FOR AUXILIARY FEEDWATER PUMPS ARE LOWER THAN CALCULATED MOTOR FULL LOAD CURRENT, ASSUMING MINIMUM SYSTEM VOLTAGE.

8063	821122	OD	2	821206	TES	OIR	SWEC	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: IF AFW PUMPS REQ. TO OPERATE AT NORMAL MINIMUM VOLTAGE RATING (90% OF NAME PLATE RATING), MOTORS WILL BE TRIPPED BY OVERCURRENT PROTECTIVE RELAYS. PG&E MEMO 820224, EH GORE TO W. VAHLSTROM REQUESTS TAPS ON PUMPS 12 AND 13 OVERCURRENT RELAYS CHANGED FROM 4.0 A TO 4.5 A WHICH WOULD BE 120% MOTOR FULL LOAD RATING.

8063	821122	OD	3	821202	SWEC	PPRR/OIP	TES	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: OVERCURRENT RELAYS FOR AFW PUMP MOTORS SHOULD BE RESET AT A TAP HIGH ENOUGH TO PREVENT RELAY OPERATION UNDER NORMAL OPERATING CONDITIONS. TAP 4.5 IS RECOMMENDED AS A MINIMUM WHICH WILL PROVIDE OVERCURRENT PROTECTION AT 120% OF MOTOR FULL LOAD RATING.

8063	821122	OD	4	830103	TES	PRR/OIP	PG&E	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: PG&E SHOULD REPORT ON THE ACTION TAKEN CONCERNING THE ACCOMPLISHMENT OF THE WORK SPECIFIED BY THEIR MEMO GORE/VAHLSTROM DATED 820224 FOR RELAY TAP SETTING.

8063	821122	OD	5	830209	TES	OIR	SWEC	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: SWEC TO REVIEW THE PG&E COMPLETION SHEET DATED 830127 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8063	821122	OD	6	830304	SWEC	PPRR/DEV	TES	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: SWEC HAS REVIEWED PG&E COMP. SHT. SIGNED 830127 AND FOUND IT ACCEPTABLE. DC1-E-E-1240, DATED 820301, ISSUED TO REVISE RELAY SETTINGS FOR AFW PUMPS TO 4.5 AMP SETTING DETAILED IN 820224 MEMO, GORE TO VAHLSTROM. SETTING TO REQUIRE FIELD VERIFICATION BY IDVP.

8063	821122	OD	7	830309	TES	PRR/DEV	PG&E	JWW		AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: DCP COMPLETION SHEET SIGNED 830127 FIELD VERIFICATION REQUIRED OF RELAY SETTINGS FOR AFW PUMP MOTORS. FINAL CLOSURE PENDING IDVP VERIFICATION.

8063	821122	OD	8	830407	TES	CR	NONE	JWW	NO	AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: MOTORS MAY BE TRIPPED BY THEIR OVERCURRENT PROTECTIVE RELAYS. SWEC HAS REVIEWED PG&E COMP. SHT. SIGNED 830127 AND FOUND IT ACCEPTABLE. DC1-E-E-1240, DATED 820301, ISSUED TO REVISE RELAY SETTINGS FOR AFW PUMPS TO 4.5 AMP SETTING DETAILED IN 820224 MEMO, GORE TO VAHLSTROM. MOD TO REQUIRE FIELD VERIF. BY IDVP. DEVIATION.

8063	821122	OD	9	830412	TES	CR	NONE	JWW	NO	AUXILIARY FEEDWATER PUMPS NUMBERS 12 AND 13.

COMMENT: MOTORS MAY BE TRIPPED BY THEIR OVERCURRENT PROTECTIVE RELAYS. SWEC HAS REVIEWED PG&E COMP. SHT. SIGNED 830127 & FOUND IT ACCEPTABLE. DC1-E-E-1240, DATED 820301, ISSUED TO REVISE RELAY SETTINGS FOR AFW PUMPS TO 4.5 AMP SETTING DETAILED IN 820224 MEMO, GORE TO VAHLSTROM. MOD TO REQ FIELD VERIF. BY IDVP. DEV. THIS REV TO CLARIFY CATAGORY OF FILE AS A DEV.

8064	830215	DMD	0	830215	SWEC	OIR	SWEC	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: SHOWN ON INSTRUMENT SCHEMATIC AS CL. 1A, LISTED IN 8110 E.Q. REPORT AS S-R NOT LOCATED IN SEVERE ENVIRONMENT. HOWEVER, AREA GE POTENTIALLY SEVERE. NO DOCUMENTATION THAT POM 113 AND 115 ENVIRONMENTALLY QUALIFIED. POSSIBLE TRIPPING OF CIRCUIT BREAKER AND LOSS OF POWER TO LCV 113 AND 115.

8064	830215	DMD	1	830215	SWEC	PPRR/OIP	TES	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: PG&E TO DOCUMENT THAT FAILURE OF POM'S 113 AND 115 WON'T INHIBIT OPERATION OF LCV'S 113 AND 115 OR THAT THEY ARE QUALIFIED TO ENVIRONMENT WHICH THEY ARE EXPOSED PER DCNPP-1 LICENSING REQUIREMENTS SUCH THAT OPERATION OF LCV ARE NOT AFFECTED.

8064	830215	DMD	2	830225	TES	PRR/OIP	PG&E	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: PG&E TO PROVIDE DOCUMENTATION TO DEMONSTRATE THAT FAILURE OF POM'S 113 AND 115 WON'T INHIBIT OPERATION OF LCV 113 & 115 OR POM'S 113 & 115 ARE QUALIFIED TO ENVIRONMENT TO WHICH THEY WILL BE EXPOSED PER LICENSING REQUIREMENT FOR EQUIPMENT QUALIFICATION SUCH THAT OPERATION OF LCV'S NOT AFFECTED.

8064	830215	DMD	3	830309	TES	OIR	SWEC	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: SWEC TO REVIEW PG&E RESOLUTION AND COMPLETION SHEETS DATED 830301 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.

8064	830215	DMD	4	830328	SWEC	PPRR/DEV	TES	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: DCP AS LICENSEE PERFRMD ANAL. WHICH PROVIDES ASSURANCE THAT POMS WILL NOT FAIL IN MANNER TO AFFECT A S-R FUNCT. DCP 830322 RES PACKAGE SHOWS ANAL. TO SUPPORT THEIR POSITION EXISTS IN THEIR FILES. DETERMINATION OF ACCEPTBLTY RESTS W/NRC NOT IDVP AS NRC IS RESPONSIBLE FOR INTERPRETATION OF REQ. OF NUREG-0588.PG&E FILES TO BE REVISED.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
8064	830215	DMD	5	830407	TES	PRR/DEV	PG&E	RRB		AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: PG&E RES. AND COMP. SHT. DATED 830322. DESIGN DOCUMENTS IMPROPERLY REPORTED CLASSIFICATION OF POM'S AS S-R. PG&E TO REVISE ENVIRONMENTAL QUALIFICATION FILES AND INSTRUMENT SCHEMATIC 102036 TO REFLECT CL. II STATUS.

8064	830215	DMD	6	830407	TES	CR	NONE	RRB	NO	AFW SYS COMPONENTS POM 110, 111, 113, & 115

COMMENT: NO DOCUMENTATION THAT POM'S LISTED ARE ENVIRONMENTALLY QUALIFIED. PG&E RES. AND COMP. SHT. DATED 830322. DESIGN DOCUMENTS IMPROPERLY REPORTED CLASSIFICATION OF POM'S AS S-R. PG&E TO REVISE ENVIRONMENTAL QUALIFICATION FILES AND INSTRUMENT SCHEMATIC 102036 TO REFLECT CL. II STATUS. DEVIATION.

8065	830608	FID	0	830608	SWEC	OIR	SWEC	LCN		JET IMPINGEMENT REVIEW

COMMENT: POSTULATED BREAK ON FEEDWATER LINE NO. 555 MAY IMPINGE UPON HORIZONTAL PORTION OF MAIN STEAM LINE NO. 227. CONDUIT KX-582 MISIDENTIFIED AND MAY BE WITHIN ZONE OF INFLUENCE OF RCP OUTLET. LINE 24 MAY IMPINGE UPON CONDUIT KX-428. RUPTURE OF LETDOWN LINE 24 MAY IMPINGE UPON TWO OF THE VERTICAL SUPPORTS FOR EXCESS LETDOWN LINE 24.

8065	830608	FID	1	830608	SWEC	PRR/OIP	TES	LCN		JET IMPINGEMENT REVIEW

COMMENT: SAFETY EVALUATION SHOULD BE PERFORMED BY THE DCP TO DETERMINE WHETHER IDENTIFIED TARGETS ARE NEEDED TO SAFELY SHUTDOWN THE PLANT UNDER THE CONDITIONS ASSOCIATED WITH THE POSTULATED PIPE BREAKS OR RUPTURES.

8065	830608	FID	2	830616	TES	PRR/OIP	PG&E	LCN		JET IMPINGEMENT REVIEW

COMMENT: FOUR ITEMS OF CONCERN HAVE BEEN IDENTIFIED RESULTING FROM DATA OBTAINED DURING THE IDVP 830524-26 SITE VERIFICATION. DCP TO PERFORM A SAFETY EVALUATION TO RESOLVE THE ITEMS.

8065	0		3	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8065	0		4	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8065	0		5	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

8065	0		6	0						

COMMENT: SPACE RESERVED FOR LATER REVISIONS.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9001	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		WORKMANSHIP ON WELDS ON BMI SUPPORTS
COMMENT: POOR WORKMANSHIP WAS FOUND ON THE WELDS ON BMI SUPPORTS NO.9, 10 AND 11 (PG&E DRAWINGS 443247 443248).										
9001	821102	QAR	1	830211	SWEC	PER/C	TES	LCN		WORKMANSHIP ON WELDS ON BMI SUPPORTS
COMMENT: FRC SITE VISIT 821116-17. VISUALLY INSPECTED BMI SUPPORTS TO DETERMINE AND EVALUATE EXTENT OF CONDITIONS REPORTED BY EVALUATION TEAM. FOUND THEY ARE NOT OF SUCH EXTENT THAT THEY COULD AFFECT PLANT SAFETY.										
9001	821102	QAR	2	830222	TES	ER/C	PG&E	LCN		WORKMANSHIP ON WELDS ON BMI SUPPORTS
COMMENT: ADDED INFO SHOWN ON ATTACHMENT A TO PG&E COMPLETION SHEET SIGNED 830109 PLUS RESULTS OF VISUAL INSPECTION BY FRC REVEALED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9001	821102	QAR	3	830222	TES	CR	NONE	LCN	NO	WORKMANSHIP ON WELDS ON BMI SUPPORTS
COMMENT: POOR WORKMANSHIP WAS FOUND ON THE WELDS ON BMI SUPPORTS NO.9, 10 AND 11 (PG&E DRAWINGS 443247 443248). ADDED INFO SHOWN ON ATTACHMENT A TO PG&E COMPLETION SHEET SIGNED 830109 PLUS RESULTS OF VISUAL INSPECTION BY FRC REVEALED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ERROR CLASS C.										
9002	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		WELD LENGTHS ON BMI SUPPORTS
COMMENT: WELD LENGTHS ON SUPPORTS 10 & 11 (PG&E DRAWING 443248) WERE NOT PER DRAWINGS. A PG&E MEMO AUTHORIZED POST APPROVAL OF REDUCED FILLET SIZE. DRAWING SHOULD BE REVISED TO REFLECT THE AS-BUILT CONDITION.										
9002	821102	QAR	1	830204	SWEC	PER/C	TES	LCN		WELD LENGTHS ON BMI SUPPORTS
COMMENT: WELD LENGTH NOT PER DRAWINGS. THE FINDINGS REVIEW COMMITTEE ACCEPTS THE PG&E RESPONSE COMMITTING TO REVISE DRAWING #443248 TO REFLECT THE MINIMUM ACCEPTABLE WELD LENGTH REQUIRED BY THE DESIGN CALCULATIONS. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9002	821102	QAR	2	830209	TES	ER/C	PG&E	LCN		WELD LENGTHS ON BMI SUPPORTS
COMMENT: WELD LENGTH ON SEVERAL BARS LESS THAN REQUIRED BY DWG. 443248. BASED ON PG&E COMP SHEET,THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9002	821102	QAR	3	830209	TES	CR	NONE	LCN	NO	WELD LENGTHS ON BMI SUPPORTS
COMMENT: WELD LENGTHS ON SUPPORTS 10 & 11 (PG&E DRAWING 443248) WERE NOT PER DRAWINGS. A PG&E MEMO AUTHORIZED POST APPROVAL OF REDUCED FILLET SIZE. DRAWING SHOULD BE REVISED TO REFLECT THE AS-BUILT CONDITION. WELD LENGTH ON SEVERAL BARS LESS THAN REQUIRED BY DWG. 443248. BASED ON PG&E COMP SHEET,THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9003	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		BOTTOM MOUNTED INSTRUMENT TUBING
COMMENT: ALL FILLET WELDS AT SEAL TABLE DO NOT MEET WISMER-BECKER WELD PROCEDURE, HOWEVER, WESTINGHOUSE DRAWING REQUIREMENTS WERE MET.										
9003	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		BOTTOM MOUNTED INSTRUMENT TUBING
COMMENT: ALL FILLET WELDS AT SEAL TABLE DON'T MEET W-B PROCEDURES, W DWG. REQUIREMENTS MET. APPARENTLY, CRAFTSMEN TOLD TO USE W CRITERIA FOR FILLET WELDS IN LIEU OF W-B. ALTHOUGH NOT WELL DOCUMENTED HOW CRAFTSMEN WERE TOLD TO USE W CRITERIA, DESIGN REQUIREMENTS WERE CONSISTENTLY MET ON ALL FILLET WELDS AT SEAL TABLE. NO SAFETY SIGNIFICANCE.										
9003	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		BOTTOM MOUNTED INSTRUMENT TUBING
COMMENT: ALL FILLET WELDS AT SEAL TABLE DON'T MEET W-B WELD PROCEDURE, BUT DO MEET DESIGN REQUIREMENTS. NO SAFETY SIGNIFICANCE.										
9003	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	BOTTOM MOUNTED INSTRUMENT TUBING
COMMENT: ALL FILLET WELDS AT SEAL TABLE DON'T MEET W-B WELD PROCEDURE, BUT DO MEET DESIGN REQUIREMENTS. NO SAFETY SIGNIFICANCE. ERROR CLASS C.										
9004	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		UT INSPECTION OF BMI TUBES
COMMENT: WESTINGHOUSE DRAWING NO.685J702,R.4 REQUIRES THIMBLE GUIDE TUBES BE UT INSPECTED LONGITUDINAL & SHEAR MODES TO QUALITY LEVEL B. CMTR'S AND ULTRASONIC TEST RECORDS DO NOT IDENTIFY SUBJECT TUBES AS BEING UT TESTED IN THE LONGITUDINAL MODE.										
9004	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		UT INSPECTION OF BMI TUBES
COMMENT: REQUIREMENT FOR UT WEREN'T FULLY COMPILED WITH. FINDINGS REVIEW COMMITTEE CONCURS WITH RESPONSE FROM PG&E THAT W MATERIALS ENGINEERING PERSONNEL APPROVED PROCEDURE FOR UT, #UT-19, AND DOCUMENTATION HAS BEEN PROVIDED THAT PROCEDURE UT-19 WAS USED FOR APPLICABLE PURCHASE ORDER. NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9004	821102	QAR	2	830117	TES	ER/C	G&E	CN		T INSPECTION OF BMI TUBES
COMMENT: W DRAWINGS REQ. THIMBLE GUIDES UT INSPECTED IN LONGITUDINAL AND SHEAR MODE. CMTR', UT RECORDS DON'T IDENTIFY SUBJECT TUBES AS BEING UT IN LONG. MODE. TUBING PURCHASED BY W PURCHASE ORDER WHICH REQUIRES LONGITUDINAL & SHEAR UT INSPECTION BASED ON PG&E COMPLETION SHEET SIGNED 821208, NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9004	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	UT INSPECTION OF BMI TUBES

COMMENT: W DRAWINGS REQ. THIMBLE GUIDES UT INSPECTED IN LONGITUDINAL AND SHEAR MODE. CMTR', UT RECORDS DON'T IDENTIFY SUBJECT TUBES AS BEING UT IN LONG. MODE. TUBING PURCHASED BY W PURCHASE ORDER WHICH REQUIRES LONGITUDINAL & SHEAR UT INSPECTION BASED ON PG&E COMPLETION SHEET SIGNED 821208, NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9005	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		REACTOR COOLANT WELD PROCEDURES

COMMENT: THERE WAS NO EVIDENCE THAT REACTOR COOLANT WELD PROCEDURES WERE REVIEWED.

9005	821102	QAR	1	830112	SWEC	PPRR/CI	TES	LCN		REACTOR COOLANT WELD PROCEDURES

COMMENT: BASED ON ADDITIONAL INFORMATION PROVIDED BY PG&E, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.

9005	821102	QAR	2	830117	TES	PRR/CI	TES	LCN		REACTOR COOLANT WELD PROCEDURES

COMMENT: BASED ON ADDITIONAL INFORMATION SHOWN ON PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.

9005	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	REACTOR COOLANT WELD PROCEDURES

COMMENT: THERE WAS NO EVIDENCE THAT REACTOR COOLANT WELD PROCEDURES WERE REVIEWED. BASED ON ADDITIONAL INFORMATION SHOWN ON PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT. CLOSED ITEM.

9006	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		SEAL LEAK DETECTION TUBING

COMMENT: INFORMATION ON CMTR DIFFERS FROM SPECIFICATION REQUIREMENTS. THE MATERIAL DESCRIPTION LISTED ON THE ASME CODE DATA REPORT DOES NOT AGREE WITH CMTR HT#53083. FURTHER, THE CMTR DOES NOT IDENTIFY THE MATERIAL AS BEING SOFT ANNEALED.

9006	821102	QAR	1	830211	SWEC	PER/C	TES	LCN		SEAL LEAK DETECTION TUBING

COMMENT: INFO ON CMTR DIFFERS FROM SPEC REQUIREMENTS. FRC CONCURS WITH THE RESPONSE FROM PG&E. SPECIFIED TUBING WAS ACTUALLY INSTALLED. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9006	821102	QAR	2	830222	TES	ER/C	PG&E	LCN		SEAL LEAK DETECTION TUBING

COMMENT: INFO ON CMTR DIFFERS FROM SPEC REQ. MATERIAL LISTED ON ASME CODE DATA REPORT DOESN'T AGREE WITH CMTR HT #53083. CMTR DOESN'T ID MATERIAL AS SOFT ANNEALED. INFO IN DCP COMPLETION SHEET SIGNED 830121 SHOWS ORIGINAL CONCERN HAS BEEN ADDRESSED. NO SAFETY SIGNIFICANCE.

9006	821102	QAR	3	830222	TES	CR	NONE	LCN	NO	SEAL LEAK DETECTION TUBING

COMMENT: INFO ON CMTR DIFFERS FROM SPEC REQ. MATERIAL LISTED ON ASME CODE DATA REPORT DOESN'T AGREE WITH CMTR HT #53083. CMTR DOESN'T ID MATERIAL AS SOFT ANNEALED. INFO IN DCP COMPLETION SHEET SIGNED 830121 SHOWS ORIGINAL CONCERN HAS BEEN ADDRESSED. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

9007	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		BMI COUPLINGS

COMMENT: MOST FILLET WELDS AT COUPLINGS DO NOT MEET DIMENSION REQUIREMENTS OF WISMER-BECKER WELD PROCEDURE #3500-2 OR WESTINGHOUSE DRAWING #685J702.

9007	821102	QAR	1	830225	SWEC	PER/C	TES	LCN		BMI COUPLINGS

COMMENT: MOST FILLET WELDS AT COUPLINGS DON'T MEET DIMENSION REQUIREMENTS OF W & B WELD PROCEDURE OR W DRAWING. BASED ON INFO BY PG&E, INCLUDING EVALUATION BY W, WELDS ACCEPTABLE AS IS. NO SAFETY SIGNIFICANCE.

9007	821102	QAR	2	830226	TES	ER/C	PG&E	LCN		BMI COUPLINGS

COMMENT: MOST FILLET WELDS AT COUPLINGS DON'T MEET DIMENSION REQUIREMENT OF W & B WELD PROCEDURE OR W DRAWING. BASED ON INFO BY PG&E, INCLUDING EVALUATION BY W, WELDS ACCEPTABLE AS IS. NO SAFETY SIGNIFICANCE.

9007	821102	QAR	3	830226	TES	CR	NONE	LCN	NO	BMI COUPLINGS

COMMENT: MOST FILLET WELDS AT COUPLINGS DON'T MEET DIMENSION REQUIREMENT OF W & B WELD PROCEDURE OR W DRAWING. BASED ON INFO BY PG&E, INCLUDING EVALUATION BY W, WELDS ACCEPTABLE AS IS. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

9008	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		CONCRETE SURFACES, REACTOR CONTAINMENT EXTERIOR

COMMENT: CONCRETE SURFACE FINISH DOES NOT MEET SPECIFICATION REQUIREMENTS IN REACTOR CONTAINMENT EXTERIOR. POTENTIAL SURFACE DEFECTS DO NOT APPEAR TO ALTER THE STRUCTURAL INTEGRITY OF THE CONCRETE CONTAINMENT.

9008	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		CONCRETE SURFACES, REACTOR CONTAINMENT EXTERIOR

COMMENT: CONCRETE SURFACE DOESN'T MEET SPECS. FINDINGS REVIEW COMMITTEE SITE VISIT (821116-17) VISUALLY INSPECTED CONTAINMENT EXTERIOR CONCRETE SURFACES TO DETERMINE & EVALUATE EXTENT OF CONDITION REPORTED. FRC CONCURS WITH RESPONSE FROM PG&E AND ACTION TAKEN. NO SAFETY SIGNIFICANCE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9008	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		CONCRETE SURFACES, REACTOR CONTAINMENT EXTERIOR
COMMENT: CONCRETE SURFACE FINISH DOES NOT MEET SPECIFICATION REQUIREMENTS. SURFACE BLEMISHES ARE SUPERFICIAL AND OF NO STRUCTURAL CONCERN. NO SAFETY SIGNIFICANCE.										
9008	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	CONCRETE SURFACES, REACTOR CONTAINMENT EXTERIOR
COMMENT: CONCRETE SURFACE FINISH DOES NOT MEET SPECIFICATION REQUIREMENTS. SURFACE BLEMISHES ARE SUPERFICIAL AND OF NO STRUCTURAL CONCERN. NO SAFETY SIGNIFICANCE. ERROR CLASS C.										
9009	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		RADIOGRAPH-REACTOR COOLANT SYS.(THIMBLE GUIDE TUBES
COMMENT: W. DWG.685J702 REQUIRES ALL CONNECTIONS AT VESSEL TO BE RADIOGRAPHED FOR CLEARANCE BETWEEN ENDS OF THIMBLE GUIDE TUBE AND VESSEL PENETRATION FOR VERIFICATION OF GAP. OF 56 RT REPORTS REVIEWED, ONE RADIOGRAPHIC REPORT DOES NOT DENOTE STATUS OF REVIEW.										
9009	821102	QAR	1	830112	SWEC	PPRR/CI	TES	LCN		RADIOGRAPH-REACTOR COOLANT SYS.(THIMBLE GUIDE TUBES
COMMENT: BASED ON ADDITIONAL INFORMATION IN PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.										
9009	821102	QAR	2	830117	TES	PRR/CI	TES	LCN		RADIOGRAPH-REACTOR COOLANT SYS.(THIMBLE GUIDE TUBES
COMMENT: BASED ON ADDITIONAL INFORMATION IN PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.										
9009	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	RADIOGRAPH-REACTOR COOLANT SYS.(THIMBLE GUIDE TUBES
COMMENT: RADIOGRAPHIC REPORT DOES NOT DENOTE STATUS OF REVIEW. THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT BASED ON ADDITIONAL INFORMATION PROVIDED BY PG&E. CLOSED ITEM.										
9010	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		WELDING PROCEDURES-REACTOR COOLANT SYSTEM
COMMENT: THERE WAS NO DOCUMENTATION TO INDICATE THAT 3 OF 14 WELD PROCEDURES WERE REVIEWED.										
9010	821102	QAR	1	830112	SWEC	PPRR/CI	TES	LCN		WELDING PROCEDURES-REACTOR COOLANT SYSTEM
COMMENT: BASED ON ADDITIONAL INFORMATION IN PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.										
9010	821102	QAR	2	830117	TES	PRR/CI	TES	LCN		WELDING PROCEDURES-REACTOR COOLANT SYSTEM
COMMENT: BASED ON ADDITIONAL INFORMATION IN PG&E COMPLETION SHEET SIGNED 821208, THE ORIGINAL POTENTIAL FINDING REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT.										
9010	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	WELDING PROCEDURES-REACTOR COOLANT SYSTEM
COMMENT: THERE WAS NO DOCUMENTATION TO INDICATE WELD PROCEDURES WERE REVIEWED. BASED ON ADDITIONAL INFORMATION IN PG&E COMPLETIO SHEET SIGNED 821208, THE ORIGINAL POTENTIAL REPORT WAS CANCELLED BY THE CONSTRUCTION QA EVALUATION TEAM AT THE PLANT. CLOSED ITEM.										
9011	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		NSSS-PIPING TRAVELER REVIEW
COMMENT: PIPING TRAVELERS DO NOT INCLUDE ALL REQUIRED INFORMATION PER SPECIFICATION. OF 62 PIPING TRAVELERS REVIEWED, 53 WERE FOUND TO HAVE INCONSISTENCIES IN THE COMPLETION OF TRAVELER DOCUMENTATION.										
9011	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		NSSS-PIPING TRAVELER REVIEW
COMMENT: PIPING TRAVELERS DON'T INCLUDE ALL REQUIRED INFO PER SPEC. VISUAL INSP. WAS PERFORMED & DOCUMENTED FOR ALL RC LOOP WELDS. ALTHOUGH NO SPECIFIC RECORDS FOR VISUAL INSP OF SEAL LEAK DETECTION LINE WELDS, INFO PROVIDED BY PG&E AND VISUAL INSPECTION BY FRC DURING SITE VISIT (821116-17) INDICATE WELDS ARE ACCEPTABLE. NO SAFETY SIGNIFICANCE.										
9011	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		NSSS-PIPING TRAVELER REVIEW
COMMENT: DOCUMENTATION REQUIREMENTS OF SPECIFICATION 8752 WERE NOT MET FOR SEAL LEAK DETECTION LINE WELDS. INFO PROVIDED BY PG&E AND VISUAL INSPECTION BY THE FRC INDICATE WELDS ARE ACCEPTABLE. NO SAFETY SIGNIFICANCE.										
9011	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	NSSS-PIPING TRAVELER REVIEW
COMMENT: DOCUMENTATION REQ. OF SPEC 8752 WEREN'T MET FOR SEAL LEAK DETECTION LINE WELDS. INFO PROVIDED BY PG&E COMPLETION SHEET SIGNED 821208 AND VISUAL INSPECTION BY FRC INDICATES WELDS ARE ACCEPTABLE. NO SAFETY SIGNIFICANCE. ERROR CLASS C.										
9012	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		NSSS-WELD PROCEDURES
COMMENT: 8 OF 14 WELD PROCEDURES USED DO NOT HAVE THE METHOD AND THE MATERIALS USED IN MONITORING THE INTERPASS TEMPERATURE SPECIFIED AS REQUIRED BY THE SPECIFICATION.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9012	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		NSSS-WELD PROCEDURES

COMMENT: WELD PROCEDURES DON'T HAVE METHOD AND MATERIALS USED IN MONITORING INTERPASS TEMP SPECIFIED AS REQUIRED BY SPEC. BASED ON PG&E INFO, REQ. TO MONITOR INTERPASS TEMP WASN'T PERTINENT FOR PARTICULAR WELDS PERFORMED USING THESE PROCEDURES. NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9012	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		NSSS-WELD PROCEDURES

COMMENT: REQ. OF SPEC. 8252 WEREN'T MET IN THAT EIGHT OF FOURTEEN WELD PROCEDURES REVIEWED DID NOT ADDRESS METHOD AND MATERIAL USED IN MONITORING INTERPASS TEMPERATURES. BASED ON ADDITIONAL INFO. ON PG&E COMPLETION SHEET SIGNED 821208 SHOWS THAT THIS REQT. WAS NOT PERTINENT FOR THESE PARTICULAR WELDS. NO SAFETY SIGNIFICANCE.

9012	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	NSSS-WELD PROCEDURES

COMMENT: REQ. OF SPEC. 8252 WEREN'T MET IN THAT EIGHT OF FOURTEEN WELD PROCEDURES REVIEWED DID NOT ADDRESS METHOD AND MATERIAL USED IN MONITORING INTERPASS TEMPERATURES. BASED ON ADDITIONAL INFO. ON PG&E COMPLETION SHEET SIGNED 821208 SHOWS THAT THIS REQT. WAS NOT PERTINENT FOR THESE PARTICULAR WELDS. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

9013	821102	QAR	0	821102	SWEC	DIR	SWEC	LCN		INSTALLATION OF BMI SUPPORTS

COMMENT: VARIOUS DISCREPANCIES BETWEEN INSTALLATION AND DRAWING NUMBER 443247 AND 443248 REQUIREMENTS. APPARENTLY NUMEROUS UNDOCUMENTED FIELD CHANGES WERE MADE WITHOUT EVIDENCE OF ENGINEERING APPROVAL.

9013	821102	QAR	1	830211	SWEC	PER/C	TES	LCN		INSTALLATION OF BMI SUPPORTS

COMMENT: VARIOUS DISCREPANCIES BETWEEN INSTALLATION AND DRAWING REQUIREMENTS. FRC CONCURS WITH THE INFORMATION PROVIDED IN PG&E'S RESPONSE. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9013	821102	QAR	2	830222	TES	ER/C	PG&E	LCN		INSTALLATION OF BMI SUPPORTS

COMMENT: DISCREPANCIES BETWEEN INSTALLATION AND DRAWING REQUIREMENTS. DESIGN INFO ON PG&E COMPLETION SHT SIGNED 830109 INDICATES ACCEPTABLE DESIGN. NO SAFETY SIGNIFICANCE.

9013	821102	QAR	3	830222	TES	CR	NONE	LCN	NO	INSTALLATION OF BMI SUPPORTS

COMMENT: DISCREPANCIES BETWEEN INSTALLATION AND DRAWING REQUIREMENTS. DESIGN INFO ON PG&E COMPLETION SHT SIGNED 830109 INDICATES ACCEPTABLE DESIGN. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

9014	821102	QAR	0	821102	SWEC	DIR	SWEC	LCN		HALOGEN CONTENT-REACTOR COOLANT PIPING WELDING

COMMENT: DOCUMENTATION IS NOT AVAILABLE TO CERTIFY THAT THE HALOGEN CONTENT OF ONE PENETRANT LOT (NUMBER 2E034) MEETS THE SPECIFI REQUIREMENT.

9014	821102	QAR	1	830112	SWEC	PPRR/CI	TES	LCN		HALOGEN CONTENT-REACTOR COOLANT PIPING WELDING

COMMENT: DOCUMENTATION HAS BEEN OBTAINED CERTIFYING THE HALOGEN CONTENT OF PENETRANT LOT NUMBER 2E034 MEETS THE SPECIFICATION REQUIREMENTS.

9014	821102	QAR	2	830117	TES	PRR/CI	TES	LCN		HALOGEN CONTENT-REACTOR COOLANT PIPING WELDING

COMMENT: BASED ON ADDITIONAL INFORMATION SHOWN AS AN ATTACHMENT TO PG&E COMPLETION SHEET SIGNED 821208, IT IS CONCLUDED THAT SPECIFICATION REQUIREMENTS HAVE BEEN MET.

9014	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	HALOGEN CONTENT-REACTOR COOLANT PIPING WELDING

COMMENT: DOCUMENTATION IS NOT AVAILABLE TO CERTIFY THAT THE HALOGEN CONTENT OF ONE PENETRANT LOT (NUMBER 2E034) MEETS SPEC. REQUI ON ADDITIONAL INFO. SHOWN AS AN ATTACHMENT TO PG&E COMPLETION SHEET SIGNED 821208, IT IS CONCLUDED THAT SPECIFICATION REQUIREMENTS HAVE BEEN MET. CLOSED ITEM.

9015	821102	QAR	0	821102	SWEC	DIR	SWEC	LCN		SPEC. REQUIREMENTS - CONCRETE PLACEMENTS

COMMENT: CONCRETE PLACEMENTS C1-C4 & C29 DO NOT APPEAR TO MEET STRENGTH REQUIREMENTS OF THE SPECIFICATION. ALSO, BATCH PLANT WAS USED PRIOR TO STATE CERTIFICATION.

9015	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		SPEC. REQUIREMENTS - CONCRETE PLACEMENTS

COMMENT: BASED ON PG&E INFO: 1)CONCRETE USED PRIOR TO STATE CERTIFICATION WAS USED FOR FILL AND LEVELING. PLACEMENTS #C1-C4 WEREN'T PART OF DESIGNED STRUCTURAL FOUNDATION. 2)CONCRETE POUR #C-29 USED FOR VOID FILL MATERIAL ONLY. THEREFORE, STRENGTH OF CONCRETE MEETS REQ. OF INTENDED APPLICATION. NO SAFETY SIGNIFICANCE.

9015	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		SPEC. REQUIREMENTS - CONCRETE PLACEMENTS

COMMENT: CONCRETE PLACEMENT REPORTS REFLECT LOWER STRENGTH THAN CALLED FOR IN DESIGN STRENGTH COLUMN OF REPORT (3000 PSI). COMPRESSIVE STRENGTH OF THESE PLACEMENTS DID NOT MEET DESIGN REQUIREMENTS.

9015	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	SPEC. REQUIREMENTS - CONCRETE PLACEMENTS

COMMENT: CONCRETE PLACEMENT REPORTS REFLECT LOWER STRENGTH THAN CALLED FOR IN DESIGN STRENGTH COLUMN OF REPORT (3000 PSI). COMPRESSIVE STRENGTH OF THESE PLACEMENTS DID NOT MEET DESIGN REQUIREMENTS. IT IS CONCLUDED THAT THE COMPRESSIVE STRENGTH OF CONCRETE PLACEMENT C1-C4 & C29 MEETS THE REQUIREMENTS FOR THEIR INTENDED APPLICATION.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9016	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		ALUMINIUM USED IN GROUT:CONTAINMENT

COMMENT: ALUMINUM POWDER WAS USED IN THE GROUT IN TWO INSTANCES. SPECIFICATION # 8831R, SECTION 5, PARA 13.0 STATES " ALUMINUM GROUT SHALL NOT BE USED WITHIN THE CONTAINMENT STRUCTURE" VIOLATION OF SPECIFICATION REQUIREMENTS.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9016	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		ALUMINIUM USED IN GROUT:CONTAINMENT

COMMENT: PG&E INFO INDICATES: 1)ALUMINUM USED WOULDN'T BE EXPOSED TO CONTAINMENT SPRAY. 2)AMOUNT OF AL USED, EVEN IF EXPOSED, WOULD GENERATE ONLY A SMALL FRACTION OF ALLOWABLE AMOUNT OF HYDROGEN. 3)TOTAL AMOUNT OF AL ALLOWED IN CONTAINMENT, AS SPECIFIED IN FSAR, HAS NOT BEEN EXCEEDED. NO SAFETY SIGNIFICANCE.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9016	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		ALUMINIUM USED IN GROUT:CONTAINMENT

COMMENT: SPECIFICATION 8831R STATES 'ALUMINUM GROUT SHALL NOT BE USED WITHIN THE CONTAINMENT STRUCTURE'. FIELD RECORDS SHOW THAT THERE WERE TWO INSTANCES WHERE ALUMINUM POWDER WAS USED IN GROUT WITHIN THE CONTAINMENT.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9016	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	ALUMINIUM USED IN GROUT:CONTAINMENT

COMMENT: SPEC. 8831R STATES NO ALUMINUM ALLOWED IN GROUT USED WITHIN CONTAINMENT. FIELD RECORDS SHOW TWO SUCH INSTANCES. PG&E COMP. SHEET SIGNED 821208 INDICATES: 1)AL POWDER USED WOULDN'T BE EXPOSED TO CONTAINMENT SPRAY AND 2)TOTAL AMOUNT OF AL ALLOWED IN CONT., AS SPECIFIED IN FSAR, HAS NOT BEEN EXCEEDED. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9017	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		BOLT MATERIAL - REACTOR COOLANT SYSTEM

COMMENT: A490 BOLTS USED IN LIEU OF A307 BOLTS AND A325 BOLTS USED IN LIEU OF A490 BOLTS. ALSO LACK OF LOCK WASHERS WHERE SPECIFIED.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9017	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		BOLT MATERIAL - REACTOR COOLANT SYSTEM

COMMENT: BASED ON PG&E INFO, SUBSTITUTION OF BOLTS IS ACCEPTABLE (A490 FOR A307; A325 FOR A490), AND DOCUMENTED APPROVAL HAS BEEN GIVEN TO USE FLAT WASHERS IN LIEU OF LOCK WASHERS. NO SAFETY SIGNIFICANCE.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9017	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		BOLT MATERIAL - REACTOR COOLANT SYSTEM

COMMENT: A490 BOLTS USED IN LIEU OF A307 BOLTS AND A325 IN LIEU OF A490. SEVERAL BOLTED JOINTS LACK LOCK WASHERS, WHICH WERE REQUIRED PER ENGINEERING DRAWINGS. ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208, INDICATES THAT SUBTITUTION OF BOLTS AND USE OF FLAT WASHERS IS ACCEPTABLE, IT IS THEN CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9017	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	BOLT MATERIAL - REACTOR COOLANT SYSTEM

COMMENT: A490 BOLTS USED IN LIEU OF A307 BOLTS AND A325 IN LIEU OF A490. SEVERAL BOLTED JOINTS LACK LOCK WASHERS, WHICH WERE REQU PER ENGINEERING DRAWINGS. ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208, INDICATES THAT SUBTITUTION OF BOLTS AND USE OF FLAT WASHERS IS ACCEPTABLE, IT IS THEN CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE. ERROR CLASS C.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9018	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		WELDER'S QUALIFICATION

COMMENT: MANUFACTURER'S RECORD OF WELDER PERFORMANCE QUALIFICATION TESTS DID NOT MEET ASME IX REQUIREMENTS FOR ONE WELDER. NO OBJECTIVE EVIDENCE COULD BE FOUND THAT WESTINGHOUSE REQUIREMENT FOR USE OF MOCKUPS IN QUAL. WAS MET. ASME IX REQ. MAY HAVE BEEN VIOLATED.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9018	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		WELDER'S QUALIFICATION

COMMENT: WHILE FRC DOESN'T AGREE THAT WELDER WAS QUALIFIED BASED ON A TEST THAT FAILED, HIS QUALIFICATION BASED ON PRODUCTION RADIOGRAPHY IS ACCEPTED. DOCUMENTATION AVAILABLE THAT ALL WELDERS WERE QUALIFIED. NO SAFETY SIGNIFICANCE.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9018	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		WELDER'S QUALIFICATION

COMMENT: MANUFACTURER'S RECORD OF WELDER PERFORMANCE QUALIFICATION TESTS DID NOT MEET ASME IX REQUIREMENTS FOR ONE WELDER AS SPECIFIED BY SPEC 8752. NO OBJECTIVE EVIDENCE COULD BE FOUND THAT W REQUIREMENTS FOR USE OF MOCKUPS IN QUALIFICATION WAS MET.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9018	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	WELDER'S QUALIFICATION

COMMENT: MANUFACTURER'S RECORD OF WELDER PERFORMANCE QUALIFICATION TESTS DIDN'T MEET ASME IX REQ. FOR ONE WELDER. NO OBJECTIVE EVIDENCE FOUND THAT W REQ. FOR USE OF MOCKUPS IN QUALIFICATION WAS MET. ISOLATED INCIDENT, WELD LATER RADIOGRAPHED AND FOUND ACCEPTABLE. USE OF MOCKUPS IMPOSED BY W OVER AND ABOVE ASME IX. NO SAFETY SIGNIFICANCE. ERROR CLASS C.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9019	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		OPERATION DESCRIPTION FOR WELDS

COMMENT: OPERATION PROCESS SHEET TRAVELERS COVERING BMI SUPPORTS DO NOT SHOW OPERATION DESCRIPTION FOR SOME WELDS.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9019	821102	QAR	1	830218	SWEC	PER/C	TES	LCN		OPERATION DESCRIPTION FOR WELDS

COMMENT: OPERATION PROCESS SHEET TRAVELERS COVERING BMI SUPPORTS DON'T SHOW "OPERATION DESCRIPTION" FOR SOME WELDS. BASED ON INFO FROM PG&E, THIS REQUIREMENT WAS NOT APPLICABLE FOR THESE WELDS. BASED ON THIS INFO AND VISUAL INSPECTION BY FRC ON 821116-17, NO SAFETY SIGNIFICANCE. THIS CONDITION LIMITED TO AREAS NOTED DURING INSPECTION BY EVALUATION TEAM ON SITE.

FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9019	821102	QAR	2	830225	TES	ER/C	PG&E	LCN		OPERATION DESCRIPTION FOR WELDS

COMMENT: OPERATION PROCESS SHEET TRAVELERS COVERING BMI SUPPORTS DON'T SHOW 'OPERATION DESCRIPTION' FOR SOME WELDS. BASED ON INFO IN DCP COMPLETION SHEET SIGNED 830211 PLUS VISUAL INSPECTION BY FRC, IT IS CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

	REV. 0		LATEST REV.			ACTION	PG&E		
FILE NO.	DATE	BASIS	REV.	DATE	BY	STATUS	ORG	TES	MODS	SUBJECT
9019	821102	QAR	3	830225	TES	CR	NONE	LCN	NO	OPERATION DESCRIPTION FOR WELDS

COMMENT: OPERATION PROCESS SHEET TRAVELERS COVERING BMI SUPPORTS DON'T SHOW 'OPERATION DESCRIPTION' FOR SOME WELDS. BASED ON INFO IN DCP COMPLETION SHEET SIGNED 830211 PLUS VISUAL INSPECTION BY FRC, IT IS CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ERROR CLASS C.

9020	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		RADIOGRAPHIC INSPECTION REPORT INFORMATION

COMMENT: INFORMATION (I.E MATERIAL THICKNESS, SOURCE DISTANCE AND GEOMETRIC UNSHARPNESS) ON RADIOGRAPHIC INSPECTION REPORTS MAY BE INACCURATE.

9020	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		RADIOGRAPHIC INSPECTION REPORT INFORMATION

COMMENT: INFORMATION ON RADIOGRAPHIC INSPECTION REPORTS MAY BE INACCURATE. IT IS AGREED THAT RADIOGRAPHS ARE ACCEPTABLE IF THE PENETRAMETERS SHOW GOOD SENSITIVITY. PG&E HAS REVIEWED AND ASSURED PROPER DENSITY AND PARAMETER RESOLUTION. CONCLUDED THAT REASONABLE METHODS EMPLOYED FOR RADIOGRAPHIC INTERPRETATION. NO SAFETY SIGNIFICANCE.

9020	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		RADIOGRAPHIC INSPECTION REPORT INFORMATION

COMMENT: REQUIREMENTS OF ASME IX, 1971 AS SPECIFIED IN SPEC 8752 RADIOGRAPHIC INSPECTION REPORTS (MATERIAL THICKNESS, SOURCE DISTANCE AND GEOMETRIC UNSHARPESS) MAY NOT BE MET. BASED ON ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208, AND REVIEWED BY FRC,IT IS CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9020	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	RADIOGRAPHIC INSPECTION REPORT INFORMATION

COMMENT: REQUIREMENTS OF ASME IX, 1971 AS SPECIFIED IN SPEC 8752 RADIOGRAPHIC INSPECTION REPORTS (MATERIAL THICKNESS, SOURCE DISTANCE AND GEOMETRIC UNSHARPESS) MAY NOT BE MET. BASED ON ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208, AND REVIEWED BY FRC,IT IS CONCLUDED THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ERROR CLASS C.

9021	821102	QAR	0	821102	SWEC	OIR	SWEC	LCN		CONCRETE SURFACE CONDITIONS REACTOR CONTAINMENT

COMMENT: CONCRETE SURFACE CONDITIONS ON INTERIOR WALLS DO NOT MEET SPECIFICATION #8831R REQUIREMENTS.

9021	821102	QAR	1	830112	SWEC	PER/C	TES	LCN		CONCRETE SURFACE CONDITIONS REACTOR CONTAINMENT

COMMENT: VISUAL INSPECTION BY FRC ON 821116-17 SUPPORT PG&E INFO THAT THE SURFACE DEFECTS ARE NOT EXCESSIVE, AND ANY PATCHING DONE TO CORRECT THE DEFECTS WOULD BE COSMETIC ONLY. NO SAFETY SIGNIFICANCE.

9021	821102	QAR	2	830117	TES	ER/C	PG&E	LCN		CONCRETE SURFACE CONDITIONS REACTOR CONTAINMENT

COMMENT: CONCRETE SURFACE CONDITIONS ON 3 IDENTIFIED INTERIOR WALLS DO NOT MEET SPEC 8831R REQUIREMENTS, ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208 INDICATES THAT THERE IS NO ACCEPTANCE CRITERIA REGARDING AIR BUBBLES. VISUAL INSPECTION BY EXPERIENCED PERSONNEL INCLUDING THE FRC, IT IS CONCLUDED THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9021	821102	QAR	3	830117	TES	CR	NONE	LCN	NO	CONCRETE SURFACE CONDITIONS REACTOR CONTAINMENT

COMMENT: CONCRETE SURFACE CONDITIONS ON 3 IDENTIFIED INTERIOR WALLS DO NOT MEET SPEC 8831R REQUIREMENTS, ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208 INDICATES THAT THERE IS NO ACCEPTANCE CRITERIA REGARDING AIR BUBBLES. VISUAL INSP. BY EXPERIENCED PERSONNEL INCL. THE FRC, IT IS CONCLUDED THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ER/C.

9022	821110	QAR	0	821110	SWEC	OIR	SWEC	LCN		WELD PROCEDURE-BMI TUBING

COMMENT: VOLTAGE/AMPERAGE REQUIREMENTS OF WELD PROCEDURE 3500-2 WERE NOT MET.

9022	821110	QAR	1	830204	SWEC	PER/C	TES	LCN		WELD PROCEDURE-BMI TUBING

COMMENT: VOLTAGE/AMPERAGE REQUIREMENTS OF WELD PROCEDURE 3500-2 WERE NOT MET. BASED ON INFO PROVIDED BY PG&E AND REVIEWED BY THE FINDINGS REVIEW COMMITTEE. THE DEVIATIONS REPORTED DON'T APPEAR TO BE RELEVANT IN TERMS OF WELD QUALITY. NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9022	821110	QAR	2	830210	TES	ER/C	PG&E	LCN		WELD PROCEDURE-BMI TUBING

COMMENT: VOLT/AMP REQUIREMENTS OF WELD PROCEDURE 3500/2 WERE NOT MET. BASED ON INFO IN PG&E COMP SHEET SIGNED 830109, IT IS CONCLUDED THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9022	821110	QAR	3	830210	TES	CR	NONE	LCN	NO	WELD PROCEDURE-BMI TUBING

COMMENT: VOLT/AMP REQUIREMENTS OF WELD PROCEDURE 3500/2 WERE NOT MET. BASED ON INFO IN PG&E COMP SHEET SIGNED 830109, IS CONCLUDED THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.

9023	821110	QAR	0	821110	SWEC	OIR	SWEC	LCN		WELD PROCEDURE-REACTOR COOLANT SYSTEM

COMMENT: VOLTAGE/AMPERAGE REQUIREMENTS OF WELD PROCEDURE 3500-1 WERE NOT MET.

9023	821110	QAR	1	830112	SWEC	PER/C	TES	LCN		WELD PROCEDURE-REACTOR COOLANT SYSTEM

COMMENT: BASED ON INFO PROVIDED BY PG&E AND REVIEW BY FRC, DEVIATIONS REPORTED DO NOT APPEAR TO BE RELEVANT IN TERMS OF WELD QUALITY. NO SAFETY SIGNIFICANCE.

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9023	821110	QAR	2	830117	TES	ER/C	PG&E LCN			WELD PROCEDURE-REACTOR COOLANT SYSTEM
COMMENT: VOLTAGE/AMPERAGE REQUIREMENTS OF WELD PROCEDURE 3500-1 WERE NOT MET. ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208 INDICATES THAT FINAL NONDESTRUCTIVE EXAMINATION CONFIRMS THAT ACCEPTABLE WELD QUALITY WAS ACHIEVED. NO SAFETY SIGNIFICANCE.										
9023	821110	QAR	3	830117	TES	CR	NONE LCN	NO		WELD PROCEDURE-REACTOR COOLANT SYSTEM
COMMENT; VOLTAGE/AMPERAGE REQUIREMENTS OF WELD PROCEDURE 3500-1 WERE NOT MET. ADDITIONAL INFO FROM PG&E COMPLETION SHEET SIGNED 821208 INDICATES THAT FINAL NONDESTRUCTIVE EXAMINATION CONFIRMS THAT ACCEPTABLE WELD QUALITY WAS ACHIEVED. NO SAFETY SIGNIFICANCE. ERROR CLASS C.										
9024	821110	QAR	0	821110	SWEC	OIR	SWEC LCN			FERRITE READINGS-REACTOR COOLANT SYSTEM
COMMENT: FERRITE READINGS FOR WELDS NOT RECORDED IN ALL CASES AS REQUIRED BY SPECIFICATION 8152.										
9024	821110	QAR	1	830211	SWEC	PER/C	TES LCN			FERRITE READINGS-REACTOR COOLANT SYSTEM
COMMENT: FERRITE READINGS WERE NOT RECORDED IN ALL CASES AS REQUIRED BY SPECIFICATION #8752. FRC PERFORMED A REVIEW AND CONSIDERS THAT THIS ITEM HAS NO SAFETY SIGNIFICANCE.										
9024	821110	QAR	2	830222	TES	ER/C	PG&E LCN			FERRITE READINGS-REACTOR COOLANT SYSTEM
COMMENT: FERRITE READINGS FOR WELDS WEREN'T RECORDED IN ALL CASES AS REQUIRED PER SPEC 8752. FRC REVIEW INDICATED SUFFICIENT CHECKS PERFORMED AND THAT ADEQUATE PROCEDURES EXISTED. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9024	821110	QAR	3	830222	TES	CR	NONE LCN	NO		FERRITE READINGS-REACTOR COOLANT SYSTEM
COMMENT: FERRITE READINGS FOR WELDS WEREN'T RECORDED IN ALL CASES AS REQUIRED PER SPEC 8752. FRC REVIEW INDICATED SUFFICIENT CHECKS PERFORMED AND THAT ADEQUATE PROCEDURES EXISTED. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ERROR CLASS C.										
9025	821110	QAR	0	821110	SWEC	OIR	SWEC LCN			BMI TUBING SUPPORTS
COMMENT: 5/16" DRILLED HOLES ON ONE TUBE SUPPORT DO NOT APPEAR ON DRAWING.										
9025	821110	QAR	1	830204	SWEC	PER/C	TES LCN			BMI TUBING SUPPORTS
COMMENT: 5/16" DRILLED HOLES ON ONE TUBING SUPPORT DON'T APPEAR ON DRAWINGS. BASED ON INFO PROVIDED BY PG&E, THE PRESENCE OF THE HOLES IN ONE TUBING SUPPORT WILL HAVE NEGLIGIBLE EFFECT. REVIEW BY THE FRC INDICATES NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9025	821110	QAR	2	830211	TES	ER/C	PG&E LCN			BMI TUBING SUPPORTS
COMMENT: 5/16" DRILLED HOLES ON ONE TUBING SUPPORT DON'T APPEAR ON DRAWING. BASED ON INFO IN PG&E COMP SHEET AND REVIEW BY THE FRC, THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9025	821110	QAR	3	830211	TES	CR	NONE LCN	NO		BMI TUBING SUPPORTS
COMMENT: 5/16" DRILLED HOLES ON ONE TUBING SUPPORT DON'T APPEAR ON DRAWING. BASED ON INFO IN PG&E COMP SHEET AND REVIEW BY THE FRC, THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. ERROR CLASS C.										
9026	821110	QAR	0	821110	SWEC	OIR	SWEC LCN			ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: NO DOCUMENTATION AVAILABLE THAT LIQUID PENETRANT EXAMINATION WAS PERFORMED AS REQUIRED FOR SOME TEMPORARY ATTACHMENTS TO RCS PIPING.										
9026	821110	QAR	1	830211	SWEC	PER/A	TES LCN			ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: NO EVIDENCE THAT REQUIRED NON-DESTRUCTIVE EXAMINATION OF LUG REMOVAL AREAS HAD BEEN PERFORMED. NO EVIDENCE THAT LINEAR INDICATION REVEALED BY VISUAL INSPECTION HAS BEEN EVALUATED. IMPACT ON PLANT SAFETY CANNOT BE EVALUATED UNTIL REQUIRED NDE HAS BEEN DONE AND REVIEWED BY FRC.										
9026	821110	QAR	2	830222	TES	ER/A	PG&E LCN			ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: NO DOCUMENTATION AVAILABLE THAT LIQUID PENETRATION EXAMINATION WAS PERFORMED AS REQUIRED FOR SOME TEMPORARY ATTACHMENTS TO RCS PIPING. VISUAL EXAMINATION REVEALS ONE LINEAR INDICATION. PG&E TO IMPLEMENT NDE OF DEFINED AREAS. IDVP/FRC WILL REVIEW RESULTS OF TESTS.										
9026	821110	QAR	3	830225	TES	OIR	SWEC LCN			ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: TES REQUESTS SWEC TO REVIEW DCP COMPLETION SHEET SIGNED 830224 AND PROVIDE A RECOMMENDATION FOR FUTURE DISPOSITION.										
9026	821110	QAR	4	830308	SWEC	PPRR/CI	TES LCN			ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: FRC REVIEWED PRELIMINARY INFO FROM PG&E (830223), PG&E COMP. REPORT (830224), & ADDITIONAL INFO FROM PG&E (830307), AND RESULTS OF SWEC INDEPENDENT L.P. EXAMINATION OF LUG REMOVAL AREA 14 ON LOOP 1-4. RESULTS INDICATE THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										

FILE NO.	REV. 0 DATE	BASIS	LATEST REV. REV.	DATE	BY	STATUS	ACTION ORG	TES	PG&E MODS	SUBJECT
9026	821110	QAR	5	830309	TES	PRR/CI	TES	LCN		ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: FRC REVIEWED PRELIM INFO FROM PG&E (830223), PG&E COMP SHT (830224), AND ADDED PG&E INFO (830307),AND RESULTS OF SWEC INDEPENDENT L.P. EXAM OF LUG REMOVAL AREA 14 ON LOOP 1-4. RESULTS INDICATE THAT THERE IS NO SAFETY SIGNI-FICANCE REGARDING THIS ITEM.										
9026	821110	QAR	6	830309	TES	CR	NONE	LCN	NO	ATTACHMENTS-REACTOR COOLANT SYSTEM PIPING
COMMENT: NO DOCUMENTATION AVAILABLE THAT LIQUID PENETRANT EXAMINATION WAS PERFORMED AS REQUIRED FOR SOME TEMPORARY ATTACHMENTS TO RCS PIPING. FRC REVIEWED PG&E INFO AND INDEPENDENT SWEC L.P. EXAM OF LUG REMOVAL AREA 14 ON LOOP 1-4 RESULTS INDICATE THAT THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM. CLOSED ITEM.										
9027	821110	QAR	0	821110	SWEC	OIR	SWEC	LCN		WELDS-BMI TUBING
COMMENT: NO EVIDENCE COULD BE FOUND THAT LIQUID PENETRATION EXAMINATION OF TUBE TO SEAL TABLE WELDS WAS PERFORMED AS REQUIRED BY SPECIFICATION 8752.										
9027	821110	QAR	1	830112	SWEC	PER/C	TES	LCN		WELDS-BMI TUBING
COMMENT: BASED ON ADDITIONAL INFORMATION BY PG&E, IT IS CLEAR THAT LIQUID PENETRANT INSPECTION OF WELDS IN QUESTION WAS NOT REQUIRED. THERE IS NO SAFETY SIGNIFICANCE REGARDING THIS ITEM.										
9027	821110	QAR	2	830117	TES	ER/C	PG&E	LCN		WELDS-BMI TUBING
COMMENT: NO EVIDENCE WAS FOUND THAT LIQUID PENETRANT EXAMINATION OF TUBE TO SEAL TABLE WELDS WAS PERFORMED AS REQUIRED BY SPEC. 8752. ADDITIONAL INFO FROM PG&E ON COMPLETION SHEET SIGNED 821208 INDICATES THAT THIS PARTICULAR WELD WAS EXEMPTED FROM REQ. FOR LIQUID PENETRANT EXAMINATION OF STAINLESS STEEL WELDS.										
9027	821110	QAR	3	830117	TES	CR	NONE	LCN	NO	WELDS-BMI TUBING
COMMENT: NO EVIDENCE WAS FOUND THAT LIQUID PENETRANT EXAMINATION OF TUBE TO SEAL TABLE WELDS WAS PERFORMED AS REQUIRED BY SPEC. 8752. ADDITIONAL INFO FROM PG&E ON COMPLETION SHEET SIGNED 821208 INDICATES THAT THIS PARTICULAR WELD WAS EXEMPTED FROM REQ. FOR LIQUID PENETRANT EXAMINATION OF STAINLESS STEEL WELDS. NO SAFETY SIGNIFICANCE. ERROR CLASS C.										
9028	821119	QAR	0	821119	SWEC	OIR	SWEC	LCN		WELD DOCUMENTATION - BMI SUPPORTS
COMMENT: WELD DOCUMENTATION DOES NOT IDENTIFY WELDER TO SPECIFIC WELDS AS REQUIRED BY SPECIFICATION 8752.										
9028	821119	QAR	1	830112	SWEC	PPRR/CI	TES	LCN		WELD DOCUMENTATION - BMI SUPPORTS
COMMENT: INFO BY PG&E INDICATES THAT CHANGE NOTICE 18 TO SPEC 8752 REVISED THE REQ. FOR WELD NUMBERS AND WELDER ID NUMBERS TO BE AS APPLICABLE PER CODES, STANDARDS, SPECS DWGS, OR CONSTRUCTION DIRECTION. THESE DOCUMENTS DIDN'T INCLUDE THIS REQUIREMENT, THEREFORE, THERE WAS NO VIOLATION OF SPEC 8752.										
9028	821119	QAR	2	830117	TES	PRR/CI	TES	LCN		WELD DOCUMENTATION - BMI SUPPORTS
COMMENT: INFO PROVIDED BY PG&E INDICATES THAT CHANGE NOTICE 18 TO SPEC 8752 REVISED REQUIREMENTS FOR WELD NUMBERS AND WELDER ID NUMBERS TO BE AS APPLICABLE PER CODES, STANDARDS, SPECS, DWGS, OR CONSTRUCTION DIRECTION. THESE DOCUMENTS DIDN'T INCLUDE THIS REQ., THEREFORE NO VIOLATION OF SPEC. 8752.										
9028	821119	QAR	3	830117	TES	CR	NONE	LCN	NO	WELD DOCUMENTATION - BMI SUPPORTS
COMMENT: INFO PROVIDED BY PG&E INDICATES THAT CHANGE NOTICE 18 TO SPEC 8752 REVISED REQUIREMENTS FOR WELD NUMBERS AND WELDER ID NUMBERS TO BE AS APPLICABLE PER CODES, STANDARDS, SPECS, DWGS, OR CONSTRUCTION DIRECTION. THESE DOCUMENTS DIDN'T INCLUDE THIS REQ., THEREFORE NO VIOLATION OF SPEC. 8752. CLOSED ITEM.										
9029	821119	QAR	0	821119	SWEC	OIR	SWEC	LCN		REACTOR COOLANT SYSTEM - WELD DEFICIENIES
COMMENT: NUMEROUS INSTANCES OF ARC STRIKES, WELD SPATTER, RUSTING, PITTING, OVERGRINDING, PAINT SPATTER ON RCS LOOPS AND SURGE LINES.										
9029	821119	QAR	1	830218	SWEC	PER/C	TES	LCN		REACTOR COOLANT SYSTEM - WELD DEFICIENIES
COMMENT: NUMEROUS INSTANCES OF ARC STRIKES,WELD SPLATTER,RUSTING,PITTING,OVERGRINDING,PAINT SPATTER ON RCS LOOPS & SURGE LINES. INFO ON PG&E RESPONSE INDICATES ACCEPTABLE CONDITIONS OF RCS UPON FINISH OF INITIAL WELDING EFFORTS.TECHNICAL EVAL INDIC CONCERNS ARE MINOR & SAFE OPERATION NOT COMPROMISED. PROGRAM BY PG&E TO RETURN RCS TO INITIAL CONDITION REASONABLE.										
9029	821119	QAR	2	830225	TES	ER/C	PG&E	LCN		REACTOR COOLANT SYSTEM - WELD DEFICIENIES
COMMENT: NUMEROUS INSTANCES OF ARC STRIKES, WELD SPATTER, RUSTING, PITTING, OVERGRINDING, PAINT SPATTER ON RCS LOOP AND SURGE LINES. BASED ON INFO IN DCP RESOLUTION SHEET SIGNED 830211, IT IS CONCLUDED THAT CONCERNS WON'T COMPROMISE SAFE OPERATIO OF PLANT.										
9029	821119	QAR	3	830225	TES	CR	NONE	LCN	NO	REACTOR COOLANT SYSTEM - WELD DEFICIENIES
COMMENT: NUMEROUS INSTANCES OF ARC STRIKES, WELD SPATTER, RUSTING, PITTING, OVERGRINDING, PAINT SPATTER ON RCS LOOP AND SURGE LINES. BASED ON INFO IN DCP RESOLUTION SHEET SIGNED 830211, IT IS CONCLUDED THAT CONCERNS WON'T COMPROMISE SAFE OPERATIO OF PLANT. ERROR CLASS C.										

TOTAL NUMBER OF FILES LISTED IS 1854

APPENDIX E

CROSS INDEX OF FINAL REPORT SECTIONS EOIs and ITRs

E.1 ITRs In Numerical Sequence

ITR	REV NO.	ISSUE DATE	ISSUED BY	TITLE
1	1	821022	RLCA	Additional Verification and Additional Sampling (Phase 1)
2	0	820623	TES	Evaluation of the Quality Assurance Program and Implementation Reviews
3	0	820716	RLCA	Evaluation of Initial Tank Sample
4	0	820723	RLCA	Evaluation of Electrical Equipment Qualified by Test (Shake Table Testing Report)
5	0	820819	RLCA	Seismic Design Chain (Hosgri)
6	0	820910	RLCA	Auxiliary Building (Initial Evaluation)
7	0	820917	RLCA	Electrical Raceway Supports (Initial Evaluation)
8	0	821007	RLCA	IDVP Program For Verification of PGandE Corrective Action (Phase I)
9	0	821018	RFR	Contractor List for Non-Seismic Prior to 7806
10	0	821029	RLCA	Hosgri Spectra (Initial Evaluation)
11	0	821102	TES	PGandE NSSS Seismic Interface Review
12	0	821105	RLCA	Initial Evaluation - Piping
13	0	821105	RLCA	Soils Intake Structure
14	1	830509	SWEC	Initial Evaluation P/T Analysis Nuclear Technology Division
15	0	821210	RLCA	HVAC Duct and Supports Report
16	0	821208	RLCA	OWST Soils Review
17	0	821214	RLCA	Additional Activity Piping
18	1	830524	SWEC	Initial Evaluation Fire Protection System
19	0	821216	SWEC	Initial Evaluation Radiation Analysis Nuclear Technology Division
20	1	830426	SWEC	Initial Evaluation CRVP System Power Division Report

E.1 ITRs In Numerical Sequence (Continued)

ITR	REV NO.	ISSUE DATE	ISSUED BY	TITLE
21	1	830503	SWEC	Initial Evaluation High Energy Pipe Line Cracks Report
22	1	830426	SWEC	Initial Evaluation Nuclear Auxiliary Feedwater System Report
23	0	821220	SWEC	Initial Evaluation High Energy Pipe Break Report
24	1	830504	SWEC	Inital Evaulation 4160V Electrical Distribution System Division
25	1	830429	SWEC	Initial Evaluation Auxiliary Feedwater System Electrical Division
26	1	830502	SWEC	Initial Evaluation CRVP System Electrical Division
27	1	830513	SWEC	Initial Evaluation Auxiliary Feedwater System I/C Division Report
28	1	830513	SWEC	Initial Evaluation CRVP System I/C Division Report
29	0	820117	SWEC	Design Chain - SWEC Initial Samples
30	0	830112	RLCA	Initial Evaluation Small Bore Piping
31	0	830114	RLCA	Initial Evaluation HVAC Components
32	0	830401	RLCA	Initial Evaluation Pumps
33	1	830428	RLCA	Initial Evaluation Electrical Equipment
34	1	830324	SWEC	Verification of DCP Efforts by SWEC
35	0	830401	RLCA	Verification of DCP Efforts by RLCA
36	0	830225	SWEC	CQA G.F. Atkinson
37	0	830223	RLCA	Initial Evaluation Valves
38	1	820301	SWEC	CQA Wismer and Becker
39	0	830225	RLCA	Soils: Intake Structure Bearing Capacity and Lateral Earth Pressure
40	0	830309	RLCA	Additional Activity Soils Review, Intake Sliding Resistance

E.1 ITRs In Numerical Sequence (Continued)

ITR	REV NO.	ISSUE DATE	ISSUED BY	TITLE
41	0	830419	RFR	QA Review and Audit of DCP Corrective Action Program and Design Verification
42	0	830415	RFR	Phase II QA and Design Control Practices
43	0	830414	RLCA	Initial Evaluation CCW Heat Exchanger
44	0	830415	RFR	Shake Table Mounting
45	0	830517	SWEC	Additional Verification of Redundancy of Equipment and Power Supplies in Shared Safety-Related Systems
46			SWEC	Additional Activity Design Conditions
47			SWEC	Additional Activity Environment Outside Containment
48			SWEC	Additional Activity Jet Impingement Inside Containment
49			SWEC	Additional Activity Separation and Independence
50			TES	Containment Annulus Structure
51			TES	Corrective Action - Containment Annulus
52			RLCA	Buried Diesel Tanks
53			RLCA	Soils Review - Buried Auxiliary Saltwater Piping
54			RLCA	Corrective Action Containment Building
55			RLCA	Corrective Action Auxiliary Building
56			RLCA	Corrective Action Turbine Building
57			RLCA	Corrective Action Fuel Handling Building
58			RLCA	Corrective Action Intake Structure
59			RLCA	Corrective Action Large Pipe Stress
60			RLCA	Corrective Action Large Pipe Support

E.1 ITRs In Numerical Sequence (Continued)

ITR	REV NO.	ISSUE DATE	ISSUED BY	TITLE
61			RLCA	Corrective Action Small Bore Piping
62			RLCA	Corrective Action Small Bore Pipe Supports
63			RLCA	Corrective Action HVAC Duct and Supports
64			RLCA	Corrective Action Raceways and Support
65			RLCA	Corrective Action Rupture Restraints
66			RLCA	Corrective Action Instrument Tubing and Supports
67			RLCA	Corrective Action Equipment

E.2A ITR/EOI CROSS REFERENCE

ITR	EOI
1	Defines Phase I Additional Verification/Sample
2	968, 969, 970, 981, 982, 984, 992, 993, 1009, 1010, 1014, 1022, 1027, 1028, 1029, 1040, 1041, 1042, 1052, 1064, 1065, 1066, 1067, 1068, 1070, 1079, 3000, 3001, 3002, 3003, 3004, 3005
3	1011, 1012, 1015, 1017, 1030, 1053, 1054
4	1005, 1007, 1013, 1049
5	Defines Design Chain Network - Phase I
6	920, 985, 986, 987, 990, 991, 1027, 1028, 1029, 1070, 1079, 1091, 1092, 1093, 1095, 1097
7	910, 930, 983, 1010, 1026, 1093, 1097
8	Defines Verification Program that RLCA Will Use in Performing Verification of DCP Phase I Corrective Action
9	Development of the Service-Related Contractor List for Non-Seismic Design Work Performed for DCNPP-1 Prior to June 1, 1978
10	920, 967, 976, 978, 981, 983, 986, 1002, 1004, 1005, 1007, 1008, 1009, 1010, 1011, 1013, 1014, 1015, 1020, 1022, 1025, 1026, 1028, 1049, 1053, 1055, 1062, 1063, 1065, 1068, 1071, 1072, 1074, 1080, 1081, 1084, 1085, 1086, 1093, 1097, 1102, 1103, 3004, 3005
11	976, 978, 1004
12	931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 994, 995, 996, 997, 1000, 1001, 1009, 1014, 1019, 1021, 1023, 1025, 1031, 1032, 1050, 1051, 1057, 1060, 1062, 1063, 1069, 1071, 1074, 1075, 1076, 1080, 1081, 1084, 1085, 1086, 1098, 1103, 1105, 1106
13	968, 969, 970, 981, 1070, 1094, 1100, 1101, 3000
14	8001 thru 8006, 8033, 8034, 8040
15	1003, 1077, 1110

ITR	EOI
16	968, 969, 970, 981, 1070, 1094, 1100, 1101, 3000
17	1009, 1098, 1104, 1106, 1107, 1108
18	8019, 8020, 8021, 8035, 8036, 8037, 8038, 8039
19	NONE
20	8012, 8016
21	8011, 8014, 8028, 8029, 8030, 8031, 8050
22	8009, 8010, 8015, 8027, 8048, 8060, 8062
23	8007, 8008, 8049
24	8013, 8022, 8023, 8024, 8025, 8026, 8045
25	8011, 8042, 8043, 8044, 8061, 8063
26	8011, 8041, 8042, 8044, 8061
27	8018, 8032, 8047, 8049, 8051, 8052, 8054, 8055, 8057, 8058, 8059, 8060, 8064
28	8017, 8046, 8053, 8056, 8057, 8059
29	Design Chain - Non Seismic
30	1024, 1043 thru 1048, 1058, 1059
31	1018, 1061, 1083, 1096, 1102
32	1020, 1022, 1072, 1073, 1113, 1114
33	949, 1004, 1006, 1007, 1008, 1087, 1117
34	Verification of DCP Efforts by SWEC
35	IDVP Verification Plan for DCP Activities by RLCA
36	9008, 9015, 9016, 9021
37	950, 998, 999, 1082, 1116
38	9001 thru 9007, 9009 thru 9014, 9017 thru 9020, 9022 thru 9029
39	1112

ITR	EOI
40	NONE
41	NONE
42	7001 thru 7006
43	978, 1088, 1099
44	1118, 1119
45	8012, 8016

E.2B EOI/ITR CROSS REFERENCE

EOI	ITR
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920	6, 10
930	7
931	12
932	12
933	12
934	12
935	12
936	12
937	12
938	12
939	12
940	12
941	12
942	12
943	12
944	12
945	12
946	12
947	12
948	12
949	33
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966	12
967	10
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969	2, 13, 16
970	2, 13, 16

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981	2, 10, 13, 16
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983	7,10
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1007	4, 10, 33
1008	10, 33
1009	2, 10, 12, 17
1010	2, 7, 10
1011	3, 10
1012	3
1013	4, 10

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I015	3, 10
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I017	3
I018	31
I019	12
I020	10, 32
I021	12
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I026	7, 10
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I028	2, 6, 10
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I040	2
I041	2
I042	2
I043	30
I044	30
I045	30
I046	30
I047	30
I048	30
I049	4, 10
I050	12
I051	12
I052	2
I053	3, 10
I054	3
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E.2B EOI/ITR CROSS REFERENCE

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3002	2
3003	2
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E.2B EOI/ITR CROSS REFERENCE

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9005	38		
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5	4.1.4, 4.1.5
6	4.4.1
7	4.6.8
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11	4.1.3
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13	4.9.2
14	4.7.6, 4.7.7
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18	4.7.2, 4.7.4
19	4.7.5
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21	4.7.2, 4.7.3
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27	4.7.2, 4.7.7
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29	4.1.4, 4.1.5, 4.2.1
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34	Programmatic
35	Programmatic
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E.3B REPORT SECTION/ITR

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F.2 DEFINITIONS

ADDITIONAL VERIFICATION

(a) For Evaluation of Open Items:

Additional verifications are performed if deficiencies are found with respect to the safety-related analyses, structures or components within the initial sample systems by means of either the QA and Design Control Practices evaluations or if the low threshold verification criteria are found to be violated when performing the design process verification. Such situations are identified by issuance of Open Item Reports. The requirement that additional verification be performed does not imply a generic concern or need for an additional sample.

(b) For Evaluation of Generic Concerns:

Of specific interest and concern in performing additional verification for evaluation of an Open Item is the identification of generic concerns. Should such concerns be identified, additional verification or additional samples will be identified in a Program Resolution Report, in an Error Report or in an Interim Technical Report. These steps may include the evaluation of the generic concern on additional safety-related analysis, structures, and components within the initial sample systems other than those safety-related analyses, structures, and components previously considered, or may include evaluation of the generic concern for safety-related analyses, structures and components in other systems. Either is considered to be additional verification, not additional sampling.

ADDITIONAL SAMPLING

Additional sampling was performed when either:

(a) Significant findings were identified with respect to an organization which was not a participant in the design chain applicable to the initial sample systems.

(b) The reasons for the discrepancies found during the design process verification were not clear and additional information was required.

The purpose of additional sampling was the performance of a broad based investigation subject to the acceptance criteria applicable to the initial sample.

The selection of additional samples and the establishment of acceptance criteria in addition to those included in DCNPP-IDVP-PP-001 were subject to approval by the Program Manager.

AS-BUILT

Present, or in some cases the November 30, 1981, configuration of DCNPP-1 as shown by IDVP field verification.

AUDIT

A documented activity performed by qualified QA Auditors in accordance with written checklists to verify, by examination and evaluation of objective evidence, that applicable elements of the Quality Assurance Program were effectively implemented in accordance with the checklist statements.

BLUME SPECTRA

Hosgri response spectra generated for DCNPP-1 by URS/Blume.

CLOSED ITEM

A form of program resolution of an Open Item which indicated that the reported aspect was neither an Error nor a Deviation. No further IDVP action was required.

COMPLETION REPORT

Used to indicate that the IDVP effort related to the Open Item identified by the File Number was complete. It referenced either a Program Resolution Report which recategorized the item as a Closed Item or a PGandE document which stated that no physical modification was to be applied in the case of a Deviation or a Class C or Class D Error.

DESIGN CODES

Accepted industry standards for design (e.g., AISC, AISI, ANSI, ASME, AWWA, IEEE).

DESIGN CONTROL PRACTICE

A documented activity performed by experienced engineers in accordance with written checklists to verify, by evaluation of the characteristics of engineering practices independent of the establishment or implementation of a quality assurance program, that the characteristics were implemented in accordance with the checklist statements and good engineering design controls.

DESIGN INPUT

Those criteria, parameters, bases, or other design requirements upon which detailed final design was based.

DESIGN OUTPUT

Documents such as drawings, specifications, and other documents defining technical requirements of structures, systems, and components.

DEVIATION

A form of resolution indicating a departure from standard procedure which is not a mistake in analysis, design, or construction. No physical modifications are required, but if any are applied they are subject to verification by the IDVP.

ERROR REPORT

An Error was a form of program resolution of an Open Item indicating an incorrect result that was verified as such. It may have been due to a mathematical mistake, use of a wrong analytical method, omission of data or use of inapplicable data.

Each Error was classified as the most appropriate of the following:

- Class A: An Error was considered Class A if design criteria or operating limits of safety related equipment were exceeded and, as a result, physical modifications or changes in operating procedures were required. Any PGandE corrective action was subject to verification by the IDVP.

- Class B: An Error was considered Class B if design criteria or operating limits of safety related equipment were exceeded, but were resolvable by means of more realistic calculations or retesting. Any PGandE corrective action was subject to verification by the IDVP.

- Class ER/AB: On a number of occasions, the IDVP could not determine whether resolution would or would not require physical modifications, so the terminology Class A or B (ER/AB) was used.

- Class C: An Error was considered Class C if incorrect engineering or installation of safety related equipment was found, but no design criteria or operating limits were exceeded. No physical modifications were required, but if any were applied they were subject to verification by the IDVP.

- Class D: An Error was considered Class D if safety related equipment was not affected. No physical modifications were required, but if any were applied, they were subject to verification by the IDVP.

EXTERNAL DESIGN INTERFACE

Relationship between PGandE engineering and their service-related contractors as it affected safety-related final design.

FIELD VERIFICATION

Process of verifying actual configuration of equipment, buildings and components at the installation site against PGandE documentation.

FINAL DESIGN

Approved design output documents and approved changes thereto which described the Diablo Canyon safety-related plant configuration and technical requirements as of November 30, 1981.

HOSGRI CRITERIA

Licensing criteria referring specifically to the postulated 7.5M Hosgri earthquake.

HOSGRI REPORT

A report issued by PGandE that summarized their evaluation of DCNPP-1 for the postulated Hosgri 7.5M earthquake. Included seismic licensing criteria.

HOSGRI 7.5M EARTHQUAKE

Maximum intensity earthquake for which the plant was designed to remain functional.

IE 79-14

Bulletin No. 14 issued by NRC in 1979 which included directions to field verify the actual arrangement of computer analyzed piping.

INTERIM TECHNICAL REPORT

Interim technical reports were prepared when a program participant had completed an aspect of its assigned effort in order to provide the completed analysis and conclusions. These may have been in support of an Error, Open Item or Program Resolution Report or in support of a

portion of the work which verified acceptability. Since such a report was a conclusion of the program, it was subject to the review and approval of the Program Manager. The report was transmitted simultaneously to PGandE, to the NRC, and to designated other parties.

INTERNAL DESIGN INTERFACE

Relationship between design groups or organizations within PGandE or within PGandE design contractors as it affected safety-related final design.

LICENSING CRITERIA

Criteria contained in PGandE Licensing Documents.

COMMISSION ORDER SUSPENDING LICENSE (CLI-81-30)

The order dated November 19, 1981 that suspended the license to load fuel and operate DCNPP-1 at power levels up to 5% of full power and specified the programs that must be completed prior to lifting of the suspension.

OPEN ITEM

A concern that was not verified, fully understood and its significance assessed. The forms of program resolution of an Open Item were recategorized as an Error, Deviation, or a Closed Item.

PHASE I PROGRAM (IDVP)

Review performed by RLCA, RFR, and TES restricted to verifying work performed prior to June 1978 relative to the Hosgri re-evaluation design activities of PGandE and their service-related contractors.

PHASE II PROGRAM (IDVP)

The program developed in response to the Staff Letter was identified by PGandE as Phase II. This review considered certain non-Hosgri seismic conditions.

PGandE DESIGN CLASS I

PGandE engineering classification for structures, systems and components which corresponded to NRC Regulatory Guide 1.29 Seismic Category I classification. (See FSAR for an amplified definition.)

POTENTIAL PROGRAM RESOLUTION REPORT and POTENTIAL ERROR REPORT

Forms used for communication within IDVP.

PROGRAM RESOLUTION REPORT

Used to indicate that the specific item was no longer active in the IDVP. It indicated whether the resolution was a Closed Item or a Deviation, or that responsibility for an Open Item was transferred to the PGandE Technical Program. Further IDVP action was required upon completion of the associated PGandE Technical Program Task if the IDVP transferred an Open Item to PGandE or if physical modifications were applied with respect to a deviation.

QA FINDING

A non-conformance in QA that required evaluation due to its significance or potential impact on quality. QA Findings may have resulted from quality assurance audits or the use of design control practices.

QA OBSERVATION

A non-conformance in QA that did not require evaluation due to no apparent real or potential impact on quality. QA Observations may have resulted from QA Audits or the use of design control practices.

RESPONSE SPECTRA

Graph showing relationship between acceleration and frequency. Used in seismic analysis. Types of spectra comprised both vertical and horizontal. Vertical spectra included translational effects only. Horizontal spectra consisted ot East-West translational, North-South translational, and East-West and North-South torsional effects.

QA REVIEW

A documented activity performed by qualified QA Auditors in accordance with written checklists to verify by examination of the documented Quality Assurance Program whether it had been developed and documented in accordance with 10CFR50, Appendix B.

APPENDIX G

DESCRIPTION OF ERRATA

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DESCRIPTION OF ERRATA

After errata pages have been slipsheeted, the summary description of errata will form Appendix G.