



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
101 MARIETTA ST., N.W. SUITE 3100  
ATLANTA, GEORGIA 30303

November 9, 1982

MEMORANDUM FOR: Chief, Vendor Inspection Branch, Region IV  
FROM: R. C. Lewis, Director, Division of Project and  
Resident Programs  
SUBJECT: CONSTRUCTION DEFICIENCY REPORT - CONFIRMATION OF TELECON  
(AITS NO. F02700298 )

Enclosed is a 10/CFR 50.55(e)/10 CFR 21 report received from Georgia  
Power Company. This appears to be a generic problem. Would you please  
followup on the generic aspects of the problem with the AE/Vendor? Should you  
have additional questions, we will be glad to discuss them with you.

*R. C. Lewis*  
R. C. Lewis

Enclosure: As stated

cc: J. Olshinski, RII  
Director, DPRP, RI  
Director, DPRP, RIII  
Director, DRRP&EI, RV  
G. Heishman, IE

CONTACT: J. Rogge  
(242-5580 )

8612120289 861203  
PDR FOIA PDR  
ELLIS86-656

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VS

[Signature]

DIVISION OF PROJECT & RESIDENT PROGRAMS - DAILY REPORT REGION 11

DATE 11/9/82

FACILITY

NOTIFICATION

ITEM OR EVENT

REGIONAL ACTION

Vogtle 1 & 2  
DNS:50-424  
50-425

Licensee 11/8

Potential (50.55(e)) - Unqualified Material  
Used in Governor Drive Coupling of Delaval  
Diesel Generator (DG) - Transamerica Delaval  
notified the NRC by letter dated 6/23/82 that the Governor Drive Couplings for Delaval Diesel Generators were fabricated using isopreme. Isopreme is not qualified for the high temperature oil atmosphere encountered in this application and could fail causing the DG to trip. GPC was notified of this defect in November thru Bechtel that this problem was applicable by the Koppers Company. The licensee is evaluating and will report by 11/30.

Followup per  
MC 2512  
Region IV Notified.  
Category II

*The couplings were manufactured*

12TV

Docket No. 99900334/82-02

DEC 08 1982

Transamerica Delaval, Incorporated  
Engine and Compressor Division  
ATTN: Mr. C. Mathews  
General Manager  
550 85th Avenue  
Oakland, California 94261

Gentlemen:

This refers to the QA program inspection conducted by Mr. J. W. Sutton of this office on August 23-26, 1982, of your facility at Oakland, California, associated with the manufacture of standby diesel generators and to the discussions of our findings with you and members of your staff at the conclusion of the inspection.

This inspection was made to review implementation of the quality assurance program and also as a result of the issuance of 10 CFR Parts 21/50.55(e) reports pertaining to the following deficiencies identified in standby diesel generators that have been furnished to numerous nuclear generating stations and units: (1) possible air entrapment in the governor oil system; (2) nonseismically qualified sensing line in the starting air system; and (3) a leaky check valve in the starting air system.

Areas examined and our findings are discussed in the enclosed report. Within these areas, the inspection consisted of an examination of procedures and representative records, interviews with personnel, and observations by the inspector.

During the inspection it was found that the implementation of your QA program failed to meet certain NRC requirements. The specific findings and references to the pertinent requirements are identified in the enclosures to this letter.

Please provide us within 30 days from the date of this letter a written statement containing: (1) a description of steps that have been or will be taken to correct these items; (2) a description of steps that have been or will be taken to prevent recurrence; and (3) the date your corrective actions and preventive measures were or will be completed. Consideration may be given to extending your response time for good cause shown.

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OFFICE	CI:R&CPS	SC:R&CPS	BC:VPB	AD:DV&TPS	D:ES	RA:RIV	
USERNAME	JWSutton:ms	IBarnes	UPotapovs	RLBartgart	EHJohnson	JTCollins	
DATE	11/15/82	11/24/82	11/24/82	11/24/82	12/5/82	12/8/82	



The response requested by this letter is not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you believe to be exempt from disclosure under 10 CFR 9.5(a)(4), it is necessary that you (a) notify this office by telephone within 10 days from the date of this letter of your intention to file request for withholding; and (b) submit within 25 days from the date of this letter a written application to this office to withhold such information. If your receipt of this letter has been delayed such that less than 7 days are available for your review, please notify this office promptly so that a new due date may be established. Consistent with Section 2.790(b)(1), any such application must be accompanied by an affidavit executed by the owner of the information which identifies the document or part sought to be withheld, and which contains a full statement of the reasons on the basis which it is claimed that the information should be withheld from public disclosure. This section further requires the statement to address with specificity the considerations listed in 10 CFR 2.790(b)(4). The information sought to be withheld shall be incorporated as far as possible into a separate part of the affidavit. If we do not hear from you in this regard within the specified periods noted above, the report will be placed in the Public Document Room.

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

Sincerely,

Uldis Potapovs, Chief  
Vendor Program Branch

Enclosures:

1. Appendix A - Notice of Nonconformance
2. Appendix B - Inspection Report No. 99900334/82-02
3. Appendix C - Inspection Data Sheets (6 pages)

bcc:

IEFiles

AEOD

QAB

NRC:PDR

Reg. Administrator, I, II, III, IV, V

EHJohnson, RIV

R. L. Bangart, RIV

ASME

NBB&PVI

OFFICE ▶							
IRNAME ▶							
DATE ▶							



APPENDIX A

Transamerica Delaval, Incorporated  
Engine and Compressor Division  
Docket No. 99900334/82-02

NOTICE OF NONCONFORMANCE

Based on the results of an NRC inspection conducted on August 23-26, 1982, it appears that certain of your activities were not conducted in accordance with NRC requirements as indicated below:

Criterion V of Appendix B to 10 CFR Part 50 states: "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. Instructions, procedures, or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished."

Nonconformances with these requirements are as follows:

- A. Paragraph 2.7.1 of Section 2 of the Quality Assurance Manual, dated February 27, 1981, states in part, "The manual and procedures listed below are the quality assurance/control program of this division. Preparation, maintenance, revision and issuance of these manuals and procedures is the responsibility of Quality Control."

Contrary to the above, the Quality Assurance/Quality Control Organizational Chart, page 1-10 of Section 1 of the Quality Assurance Manual, has not been updated to reflect changes in the Quality Assurance/Quality Control organization since January 1, 1982.

- B. Paragraph 4.4.3 of Section 4 of the Quality Assurance Manual, dated February 27, 1981, states, "Quality Control representatives shall survey major/critical equipment suppliers at a minimum of once every three years to assure the vendor's ability to comply with the specification requirements and to review the implementation of the suppliers quality program."

Contrary to the above, Kobe Steel Ltd., a supplier of diesel engine crankshafts (major/critical), had not been surveyed at a minimum of once every three years to assure their ability to comply with the specification requirements and to review the implementation of their quality program. A survey form completed by the Kobe Steel Ltd.'s american representative, dated March 8, 1982, was the only record in the Transamerica Delaval supplier's file pertaining to surveys.

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- C. Paragraph 5.1.2 of Section 5 of the Quality Assurance Manual, dated February 27, 1982, states, "The parts list and component drawings released by Engineering constitute the final instructions to Manufacturing and Assembly defining the acceptance criteria to which the components and assemblies must conform." Paragraph 5.3.3 states in part, "All instructions from Manufacturing Engineering to Manufacturing and Assembly will be in writing . . . ."

Contrary to the above:

1. The component drawing released by engineering did not constitute the final instructions to assembly for definition of assembly criteria to which the governor lube oil cooler must conform.
2. Instructions for assembly of the governor lube oil cooler to the engine had not been provided in writing from manufacturing engineering to assembly.

The foregoing was evidenced by the complete lack of Transamerica Delaval documentation for detailed information regarding installation of the governor lube oil cooler onto the engine.

ORGANIZATION: TRANSAMERICA DELAVAL, INCORPORATED  
ENGINE AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

REPORT NO.: 99900334/82-02	INSPECTION DATE(S) 8/23-26/82	INSPECTION ON-SITE HOURS: 75
CORRESPONDENCE ADDRESS: Transamerica Delaval, Incorporated Engine and Compressor Division ATTN: Mr. C. Mathews, General Manager 550 85th Avenue Oakland, California 94261		
ORGANIZATIONAL CONTACT: Mr. R. E. Boyer, Manager, Quality Assurance TELEPHONE NUMBER: (415) 577-7422		
PRINCIPAL PRODUCT: Standby Diesel Generators		
NUCLEAR INDUSTRY ACTIVITY: Commercial Nuclear Production of Standby Diesel Generators (3000-13,000 HP) totals 1% of company production. One contract is inhouse for future production.		
ASSIGNED INSPECTOR: <u>J. W. Sutton</u> J. W. Sutton, Reactive and Component Program Section (R&CPS)		<u>11-24-82</u> Date
OTHER INSPECTORS(S): I. Barnes, R&CPS W. E. Foster, R&CPS		
APPROVED BY: <u>I. Barnes</u> I. Barnes, Chief, R&CPS		<u>11-24-82</u> Date
INSPECTION BASES AND SCOPE:		
A. <u>BASES</u> : 10 CFR Part 50, Appendix B and 10 CFR Part 21.		
B. <u>SCOPE</u> : This inspection was made to review the status of previous inspection findings, QA program, procurement control and supplier evaluation, audits, and also as a result of the issuance of 10 CFR Parts 21/50.55(e) reports pertaining to the following deficiencies identified in standby diesel generators that have been furnished to numerous nuclear generating stations and units: (1) possible air entrapment in the governor oil system; (2) nonseismically qualified sensing line in the starting air system; and (3) a leaky check valve in the starting air system.		
PLANT SITE APPLICABILITY: Air Entrapment: 50-416/417; 50-458; 50-413/414; 50-206; 50-440/441; 50-438/439; 50-460, 50-513; 50-329/330; 50-445/446: (Cont. on next page)		

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ORGANIZATION: TRANSAMERICA DELAVAL, INCORPORATED  
ENGINE AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

REPORT NO.: 99900334/82-02	INSPECTION RESULTS:	PAGE 2 of 6
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PLANT SITE APPLICABILITY: (Cont.)  
\*Harris; \*Hartsville; and \*Vogtle. Sensing Line: 50-322; 50-416/417; 50-458;  
50-440/441; 50-438/439; 50-460, 50-513; 50-445/446; 50-329/330; \*Harris,  
\*Hartsville, and \*Vogtle.

Check Valve: 50-329/330; 50-445/446; 50-440/441; 50-438/439; 50-518/521; 50-553/  
554.

\*Units not identified.

A. VIOLATIONS:

None

B. NONCONFORMANCES:

1. Contrary to Criterion V of Appendix B to 10 CFR Part 50 and paragraph 2.7.1 of Section 2 of the Quality Assurance Manual, dated February 27, 1981, the Quality Assurance/Quality Control Organizational Chart (page 1-10 of Section 1) has not been updated to reflect changes in the Quality Assurance/Quality Control Organization since January 1, 1982.
2. Contrary to Criterion V of Appendix B to 10 CFR Part 50 and paragraph 4.4.3 of Section 4 of the Quality Assurance Manual, dated February 27, 1981, Kobe Steel Ltd., a supplier of diesel engine crankshafts (major/critical) had not been surveyed at a minimum of once every three years to assure their ability to comply with the specification requirements and to review the implementation of their quality program. A survey form completed by the Kobe Steel Ltd.'s american representative, dated March 8, 1982, was the only indication of a vendor survey record in the Transamerica Delaval supplier's file.
3. Contrary to Criterion V of Appendix B to 10 CFR Part 50 and paragraphs 5.1.2 and 5.3.3 of Section 5 of the Quality Assurance Manual dated February 17, 1981:
  - a. The component drawing released by engineering did not constitute the final instructions to assembly for definition of acceptance criteria to which the governor lube oil cooler must conform.
  - b. Instructions for assembly of the governor lube oil cooler to the engine had not been provided in writing from manufacturing engineering to assembly.

The foregoing was evidenced by the complete lack of Transamerica Delaval, Incorporated (TDI) documentation for detailed information regarding installation of the governor lube oil cooler onto the engine during the manufacturing/fabrication/assembly activities.

ORGANIZATION: TRANSAMERICA LLAVAL, INCORPORATED  
ENGINEER AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

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C. UNRESOLVED ITEMS:

None

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

1. (Closed) Nonconformance (82-01): QA records were not being protected against fire, damage, or loss.  
  
The inspector verified that QA records and documents are being microfilmed and transferred to a second location as indicated in TDI's written reply to the NRC, dated May 6, 1982. Ninety percent of the documents have been microfilmed and stored at a second location. Procedures for control of these documents have been generated and are being implemented.
2. (Closed) Nonconformance (82-01): Welder was observed welding without having the specified weld procedures in his possession.  
  
The inspector reviewed documentation that meetings were conducted and attended by TDI welders. Procedure 3.8, "Quality Control Technician," was reviewed for content. Audits of the ASME weld shop were conducted as required and documented. Inprocess welding was not inspected during this inspection as a result of the absence of any production welding activities. The vendor has fulfilled his commitments as outlined in their May, 6, 1982, reply to the NRC.
3. (Closed) Nonconformance (82-01): Weld material was not returned to stores within the prescribed time period.  
  
The inspector reviewed documentation consisting of letters, instructions, and memos issued by QA to weld shop management and foremen concerning this matter. Welding operations were not in progress during this inspection, so effectiveness of corrective actions could not be verified. This item has been closed pending further review during a subsequent inspection.
4. (Closed) Nonconformance (82-01): The weld shop was not audited during the fall of 1981.  
  
The inspector verified by review of documentation that the weld shop has been audited and an internal audit schedule has been generated and is being implemented. TDI has met the commitments contained in their reply to the NRC, dated May 6, 1982.
5. (Closed) Nonconformance (82-01): Betts Spring Company was not surveyed at a minimum of once every three years.

ORGANIZATION: TRANSAMERICA DELAVAL, INCORPORATED  
ENGINEER AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

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The inspector reviewed the audit performed by TDI on June 2-19, 1982. The approved suppliers list (ASL), dated June 30, 1982, was also reviewed for content. The commitments of the TDI reply, dated May 6, 1982, to the NRC has been implemented. During this inspection, however, a further instance of the failure to perform a committed vendor survey was identified (see paragraph B.2 of the inspection report).

6. (Closed) Nonconformance (82-01): Associated Spring Company put on ASL without a survey being completed.

The inspector verified that the Associated Spring Company had been surveyed and the results documented. Instructions were issued to all personnel who perform surveys/audits. As identified in 5. above, however, a further instance was identified during this inspection of failure to perform a committed survey.

7. (Resolved) Unresolved Item (82-01): The ASL listed Associated Spring Company, a new supplier, with a high rating. The ASL procedure does not address how a new supplier is awarded a numerical rating without a history of received hardware.

The inspector verified that the ASL, dated March 31, 1982, now permits the inclusion of newly added vendors without a rating assignment.

8. (Resolved) Unresolved Item (82-01): Absence of apparent measures to preclude recurrence of receipt of defective springs.

The inspector ascertained that: (1) Melrose Spring and Tool Works was not fully aware of the time constraints placed upon the spring for stress relief; and (2) current suppliers are totally familiar with the time constraints, and this information appears in the manufacturing documents of the suppliers.

9. (Closed) Nonconformance C and D (81-02): Records had not been maintained to substantiate accomplishment of environmental qualification of motors for auxiliary lube oil and jacket water pumps.

Based upon an onsite evaluation by NRC regional management of: (1) Bechtel's technical specification and appendices; (2) TDI's interpretation of the specifications; (3) Bechtel's replacement of the motors; and (4) TDI's current lack of domestic nuclear power station activity, we consider this item closed. In the event that TDI receives additional contracts, a thorough appraisal of implementation of procurement practices and translation of customer requirements will be made.



ORGANIZATION: TRANSAMERICA DELAVAL, INCORPORATED  
ENGINEER AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

REPORT NO.: 99900334/82-02	INSPECTION RESULTS:	PAGE 5 of 6
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E. OTHER FINDINGS OR COMMENTS:

1. Followup on Headquarters and Regional Requests:

- a. TDI Engine and Compressor Division, filed a 10 CFR Part 21 Report on December 9, 1981, regarding a potential problem of air entrapment in the Woodward Governor oil System. The potential problem occurs if the governor lube oil cooler is installed above the oil level of the governor and the oil level in governor is low. The report to the Commission and letters to the customers indicated that detailed instructions for relocating/retubing the lube oil coolers would be sent to each site by January 15, 1982. The detailed instructions were not provided to each site by January 15, 1982; however, the inspector noted that instructions (a procedure and drawing) had been provided to three sites between March 16 and July 6, 1982.

Also, the inspector noted that Woodward Governor Company's Engine and Control Division Drawing No. 9988-214, dated July 1979 depicts a remotely installed governor lube oil cooler, while Publications Nos. 36641B and 36641D state in part, regarding remotely mounted heat exchangers, "The heat exchanger should be mounted as near as conveniently possible to the governor and below the governor's oil level so no air will be trapped in the system." TDI elected to disregard the information provided by Woodward. Further, the inspector noted that TDI had no documented instructions, procedures, or drawings regarding installation of the governor lube oil cooler onto the engine during the manufacturing/fabrication/assembly activities (see nonconformance, paragraph B.3).

- b. The Tennessee Valley Authority filed a 10 CFR Part 50.55(e) report on March 3, 1982, regarding a leaky check valve in the air start system of the standby diesel generators. This deficiency was addressed in Vendor Inspection Report No. 99900334/82-01.

Subsequent to the aforementioned report, a modified check valve has successfully completed the seismic qualification test. Documentation regarding identification of the tested article and certification of test requirement was not thorough. Efforts are still underway to correct the deficient valves, and documentation of the tested article will be reviewed during a subsequent inspection.

- c. Bechtel Power Corporation, Grand Gulf Project filed a 10 CFR Part 21 report on March 3, 1982. The report addressed the nonseismically qualified starting air pressure sensing line which is attached

ORGANIZATION: TRANSAMERICA DELAVAL, INCORPORATED  
ENGINEER AND COMPRESSOR DIVISION  
OAKLAND, CALIFORNIA

REPORT

NO.: 99900334/82-02

INSPECTION

RESULTS:

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between the air compressor and storage tank. TDI also filed a 10 CFR Part 21 report, dated March 19, 1982. TDI has performed some tests which resulted in a solution of the problem; however, there was no evidence that the sensing line had been supplied by them.

2. QA Program: The inspector reviewed TDI's QA Manual, Sections 1 and 2, dated February 27, 1982. The organizational charts and duties of personnel were also reviewed. As a result of this review, one nonconformance was identified. The organizational chart, page 1-10 of Section 1, had not been updated to reflect the current quality assurance/quality control organization and duties (see nonconformance, paragraph B.1).
3. Procurement Control and Supplier Evaluation: The inspector reviewed TDI's QA Manual, Section 4, "Procurement Document Control." The inspector also reviewed documentation letters, purchase orders, and specifications to determine if the requirements of this section of the QA Manual were being implemented. Surveys, long and short form, of suppliers audit/survey schedules were reviewed for compliance to the QA/QC requirements. As a result of this review of documentation, one nonconformance was identified. TDI had ordered components (crankshafts) from a vendor who had not been surveyed as required by the QA manual commitments (see nonconformance, paragraph B.2.).
4. Audits: The inspector reviewed TDI's QA Manual, Section 17, "Internal Audits," seven internal and two management audits. The current audit schedule, qualification of auditors, and audit training files were also reviewed. The corrective action taken as a result of audit findings was reviewed for implementation. As a result of this review, the inspector determined that the requirements for internal and management audits were being followed in accordance with QA program commitments.

1	2	TITLE/SUBJECT	3	4
1	8.	QA Documents D1-D200 Certificate of Non conformance	—	—
2	8	" " B1-B390 Material Certificate.	—	—
3.	8	" " C1-C102. Mill Certification.	—	—
4	8	Written instructions, Color Coding, Preparation of microfilm Records.	—	—
5	7	Letter dated August 9, 1982 Weld Shop inspection. on August 6-82-	—	—
6	3	Procedure 3.8 - QC manual. "Quality Control Techni- cal"	—	—
7.	7	Corrective Request. April 8, 1982.	—	—
8	2	P.O. 17220-F-571309. N-28922 - Support Pipe Welding -	June 7, 1982	—
9.	8	Audit Schedule 1982-83	—	—
10	8	Weld Shop audit - March-82 -	—	—
11	8	Approved Supplier list -	June 20-82	—
12	8	Audit Beth Spring co.	June 2-82	—
13.	8.	Survey - Associated Spring company -	—	—

## Document Types:

- |                  |                                 |
|------------------|---------------------------------|
| 1. Drawing       | 5. Purchas Order                |
| 2. Specification | 6. Internal Memo                |
| 3. Procedure     | 7. Letter                       |
| 4. QA Manual     | 8. Other (Specify-if necessary) |

## Columns:

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| 1. Sequential Item Number   |
| 2. Type of Document         |
| 3. Date of Document         |
| 4. Revision (If applicable) |



Inspector J.W. Sutton.  
 Scope/Module 927020.  
35400B.  
389500.  
409800.

DOCUMENTS EXAMINED

Docket No. 11000  
 Report No. 87-3  
 Page 2 of 6

1	2	TITLE/SUBJECT	3	4
14	8	Instructions reviewed for filling out Survey form.		
15	4.	Manual sections 1-2.	2-27-81	
16	4	QA Organizational Chart 1-10	2-27-81.	
17.	4	TDC QA Manual Section 4	2-24-81	
18	6	Memo QA/QC Review of Bid Request.	4-14-81	
19	2	Specification - M17.102.1.	6-30-81.	
20	5	P.O. #373.	8-26-81.	
21	8	Change order. M1-2-3. #373.	9-24-81.	
22	8	List of Qualified / in Training auditors.	4-5-81.	
23	8	Supplier Audit. (4).	June 82	
24.	6.	Internal auditors 1982-(7)	Various	
25	8	Audit Personnel Records / Training	April 17, 82	
26.	4	ASME manual - Section 11.0.	Current	Rev 1
27	7.	TA - SMud. Letter Change.	4/12/81	
28	8	" " Letter - change	7-25-81.	
29	8	Purchasement Package - #1-2-3057-3058 Engineering.	10-8-81.	

Document Types:

1. Drawing
2. Specification
3. Procedure
4. QA Manual

Columns:

1. Sequential Item Number
2. Type of Document
3. Date of Document
4. Revision (If applicable)



Inspector FosterScope/Module Follow up on Hdqtrs / Rgnl Requests

DOCUMENTS EXAMINED

Docket No. 71766  
Report No. 82-a2  
Page 4 of 6

1	2	TITLE/SUBJECT	3	4
1	7	TDI to Tusi - Diesel Generators, Comanche Peak; Re... Governor... Oil Cooler	7/6/82	
2		TDI to So. Cal Edison; San Onofre Governor Lube Oil Cooler	9/28/81	
3		TDI to BPC-Ann Arbor; Governor Lube Oil Cooler	6/9/82	
4		TDI to The W. Powell Co.; Swing Check Valves	4/29/82	
5		The W. Powell Co. to TDI; Soft Seated Check Valve	6/18/82	
6		TDI to Middle South Energy, Inc.; Bechtel Job No. 9645	2/18/82	
7		BPC-Gaithersburg to TDI; Standby DG-Air Start System	3/4/82	
8		TDI to BPC-Gaithersburg; TDI Order No. 74033/26	3/19/82	
9		Bechtel Associates Professional Corp. to TDI; Midland... Starting Air Sump Line	6/2/82	
10		TDI to: (Gov Lube Oil Cooler) - Middle South Energy; So. Cal Edison; CEI; TVA(?); WPPSS; CPC	12/18/81	
11	7	TDI to: (Gov Lube Oil Cooler) - BPC-Ann Arbor; WPPSS	3/14/82	
12	6	To: R. E. Boyer, Fr: L. Duck; Governor Lube Oil Cooler	7/2/82	
13		To: G. King, Fr: D. Pesout; Woodward Governor Equipment	7/8/81	
14		To: T. Kemp, Fr: D. Pratt; Governor Lube Oil Cooler	1/5/82	
15	6	To: D. Pesout, Fr: B. Hunt; Woodward Governor Equipment	10/14/81	

## Document Types:

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|------------------|---------------------------------|
| 1. Drawing       | 5. Purchase Order               |
| 2. Specification | 6. Internal Memo                |
| 3. Procedure     | 7. Letter                       |
| 4. QA Manual     | 8. Other (Specify-if necessary) |

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| 1. Sequential Item Number   |
| 2. Type of Document         |
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| 4. Revision (If applicable) |



Inspector FosterScope/Module Follow up on Hdgtrs / Rgnl Requests

## DOCUMENTS EXAMINED

Docket No. 977004  
Report No. 82-0  
Page 5 of 6

1	2	TITLE/SUBJECT	3	4
16	6	To: D. Pratt, Fr: D. Pesout; Woodward Governor Equipment	8/9/82	
17		To: R. E. Boyer, Fr: J. Witt; W3 Powell Valve	2/2/82	
18		To: J. Gee, Fr: T. Bridge; SDRS Shakes of Start Air CK Vlv & Fuel Oil Backpress. Vlv	4/27/82	
19		To: G. E. Tanswell, Fr: D. Wink; Potential Defect of Check Valve	5/13/82	
20		To: D. Hubn, Fr: T. Bridge; Powell Air Start Valve Test	6/10/82	
21		To: B. Tanswell, Fr: D. Pesout; Powell Air Start Check Valve	6/10/82	
22		To: J. Witt, Fr: R. E. Boyer; Powell Air Start Valve	6/11/82	
23		To: ~~, Fr: R. Yang; SDRS Test for Powell Valve	6/24/82	
24		To: ~~, Fr: C. Carmichael; Powell Check Valves for Start Air Service	7/8/82	
25		To: R. E. Boyer, Fr: J. Litherland; Powell 1 1/2" Check Valves	8/17/82	
26		To: D. Hubn, Fr: R. E. Boyer; Middle South Energy	3/2/82	
27		To: R. E. Boyer, Fr: C. R. Carmichael; Starting Air Control Line Break	3/18/82	
28		To: R. A. Pratt, Fr: R. E. Boyer; Start Air Sensing Line	3/22/82	
29		To: G. Tanswell, Fr: L. Wong; Starting Air System Problem	4/6/82	
30	6	To: L. Wong, Fr: C. Carmichael; Restriction Orifice for Starting Air Compression	8/5/82	

## Document Types:

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|------------------|---------------------------------|
| 1. Drawing       | 5. Purchase Order               |
| 2. Specification | 6. Internal Memo                |
| 3. Procedure     | 7. Letter                       |
| 4. QA Manual     | 8. Other (Specify-if necessary) |

## Columns:

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| 1. Sequential Item Number   |
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| 4. Revision (If applicable) |

1	2	TITLE/SUBJECT	3	4
31	8	Telephone Conversation Record - Pt 21 Rpt - R.E. Boyer to P. N. Nambur - R. W.	12/9/81	
32	8	Woodward Governor Co. - Engine & Turbine Control Div. - Public 36641/3 & D		
33	2	SR Prebid Matl for P/N 76021-103; Governor - Standby DG Sets, A. Vogtle	5/27/81	A
34	1	Woodward Gov. Co. - Eng & Turb. Control Div. - Dwg No. 9988-214 - Gov. - Outline - EGDJSC	7/79	
35	1	TDI Dwg No. 102367 - Governor Assembly	6/3/82	B
36	2	SR Prebid Matl - P/N 81015-105 - Governor - Standby DG Sets - Rancho Joso	9/9/81	
37	4	Sects. 1, 3, 4, 5	2/27/81	
38	3	EOP No. 1 - Communications & Responsibilities	4/20/81	
39	3	— — 4 - Analysis By the Design Group	4/19/78	
40	8	Assembly / Test Route Shts (Masters) - Install & Tube Governor Lub Oil Cooler, 2/5/76; Fit Governor Adapter Plate, 12/12/80; Assemble Governor, 3/31/81		
41	8	TDI TELEX to The W. Powell Co. - Carolina Pil Swing Check Valve	2/22/82	
42	8	— — — — — 10 CFR 21	5/20/82	
43	1	TDI No. 102126 - Piping Arrangement - Compressor	10/23/80	A
44	1	— — 100485 - Starting Air Piping Schematic	10/28/81	P

## Document Types:

- |                  |                                 |
|------------------|---------------------------------|
| 1. Drawing       | 5. Purchase Order               |
| 2. Specification | 6. Internal Memo                |
| 3. Procedure     | 7. Letter                       |
| 4. QA Manual     | 8. Other (Specify-if necessary) |

## Columns:

- |                             |
|-----------------------------|
| 1. Sequential Item Number   |
| 2. Type of Document         |
| 3. Date of Document         |
| 4. Revision (If applicable) |



## ;

Dates 8-23-20-82

Inspector J. Sullivan

Page        of       [illegible]



SUTTON JAMES W  
REVIEWER  
I. BARNES

NEXT INSPEC. DATE

SEQ.	NO.	YR.
A		
B		
C		
D		

ORGANIZATION CODE OF REGION/HQ CONDUCT-  
ING ACTIVITY (See IEMC 0530 "Manpower Report-  
ing—Weekly Manpower Reporting," for code.)

REGION	DIVISION	BRANCH
4	B	B.

14 - INQUIRY  
15 - INVESTIGATION

LETTER OR REPORT TRANSMITTAL DATE

NRC FORM 501  
OR REG.  
LETTER ISSUED

REPORT SENT  
TO HQ FOR  
ACTION

MO.	DAY	YR.
12	05	52

### MODULE INFORMATION

PRIORITY	DIRECT INSPECTION EFFORT IN STAFF HOURS EXPENDED ON THIS INSPECTION	PERCENTAGE COMPLETED
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MODULE REQ. FOLLOWUP				
PHASE	MANUAL CHAPTER	PROCEDURE NUMBER	LEVEL	

2.

1.2.

13-

1 1 1 1 1 1

● CIRCLE SEQUENCE IF VIOLATION OR DEVIATION

DOCKET NO. (8 digits) OR LICENSE  
NO. (4Y PRODUCT) (13 digits)

REPORT

MODULE NUMBER

NO.

SEQ.

2389908

INSPECTOR'S REPORT  
(Continuation)

Office of Inspection and Enforcement

99900334

8202

A

VIOLATION SEVERITY OR DEVIATION

SITE  
RELATED

1 2 3 4 5 6

B

C

D

D

X

VIOLATION OR DEVIATION (Enter up to 2400 characters for each item. If the text exceeds this number, it will be necessary to paraphrase. Limit lines to 50 characters each.)

2. Contrary to criterion V of appendix B to 10CFR Part 50 and Paragraph 4.4.3 of Section 4, dated February 27, 1981 of the Quality Assurance. manual, Kobe Steel, Ltd., a supplier of Diesel Engine Crankshafts (major/critical), had not been surveyed at a minimum of once every three years to assure their ability to comply with the specification requirements and to review the implementation of their quality program. a survey form completed by the Kobe Steel Ltd is American Representative, dated March 8, 1982 <sup>was</sup> ~~has been~~ the only indication of a vendors survey. <sup>in the</sup> Transamerica Delaval