ORGANIZATION: COMBUSTION ENGINEERING, INC.

POWER SYSTEMS GROUP WINDSOR, CONNECTICUT

REPORT INSPECTION NO .: 99900401/82-02 RESULTS: PAGE 2 of 4

A. VIOLATIONS:

None

B. NONCONFORMANCES:

None

C. UNRESOLVED ITEMS:

None

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

(Closed) Nonconformance (81-03) - Certain operations, designated on the Integrated Manufacturing Quality Plan as being mandatory hold points, were performed by the supplier without either the Power Systems Group representative being present or a written waiver being issued.

The inspector verified the corrective action and preventive measures committed by Combustion Engineering in their letters dated January 22, 1982, and April 28, 1982; i.e., GQC representatives have been issued instructions to document the performance of Witness and Hold Points and all waivers, and an internal audit of the records on 15 additional items was conducted.

(Closed) Nonconformance (81-03) - Record checklist requirements were not implemented in documentation packages; e.g., required material certification reviews, material test reports of filler material, radiographs, and qualification of welders and welding procedure specifications.

The inspector verified the corrective action and preventive measures committed by Combustion Engineering in their letters dated January 22, 1982, and April 28, 1982; i.e., Quality System Instruction No. 17.3 (Vendor Record Review) had been issued on November 25, 1982, the Record Check Lists had been corrected to show all records in the Owners Record Package, and the internal audit was completed.

ORGANIZATION: COMBUSTION ENGINEERING, INC.

POWER SYSTEMS GROUP WINDSOR, CONNECTICUT

REPORT	00000101/00 00	INSPECTION	
NO.:	99900401/82-02	RESULTS:	PAGE 3 of 4

(Closed) Nonconformance (81-03) - No in-process audits were performed during fabrication of Component Cooling Water Heat Exchangers in regard to the welding processes used.

The inspector verified the corrective action and preventive measures committed by Combustion Engineering in their letters dated January 22, 1982, and April 28, 1982; i.e., Group Quality Control was reorganized to include an Audit Section and in-process audits of vendors are being performed.

4. (Open) Nonconformance (81-03) - Group Quality Control surveillance or record review has not verified completion or fulfillment of Code special process requirements by external suppliers.

This item remains open pending Combustion Engineering receipt of confirmation from their vendors that the vendor's suppliers have performed the qualifications required by the ASME Code. Combustion Engineering is also waiting on a response from Ametek regarding the Charpy-V impact property certification.

5. (Closed) Nonconformance (82-01) - Two specifications did not have the required documentary evidence of interface reviews on file.

The inspector verified the corrective action and preventive measures committed by Combustion Engineering in their letters dated May 6, 1982, and June 10, 1982; i.e., the Document Distribution/Approval (DD/A) forms have been placed in the files, memo PCE-82-031 was issued to Plant Components personnel, and Plant Components completed their review of an additional 19 specifications to confirm the availability of DD/A forms.

E. OTHER FINDINGS OR COMMENTS:

Coolant Sampling System Solenoid Valves - This item is a followup to a licensee (St. Lucie 2) report to the NRC that six pneumatically operated isolation valves had been installed with AC solenoid. rather than DC solenoid air control valves. If these valves fail to close during an accident, there is the potential that some radioactivity could be released.

The inspector reviewed the records maintained by Combustion Engineering (CE) on these valves consisting of one general and one project specification, one CE Certificate of Equipment, one CE Records Checklist. one CE Surveillance Report, one vendor drawing, one vendor project plan, one vendor procedure, one vendor traveler, and one vendor certificate of conformance.

ORGANIZATION:

COMBUSTION ENGINEERING, INC.

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INSPECTION RESULTS:

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The records review disclosed that paragraph 4.6.6 of the general specification 0000C-PE-707 required that 125 volt DC solenoid valves be supplied when specified on the data sheet. The data sheet for these valves did specify DC solenoids. The vendor's drawing specified an ASCO air solenoid valve, however, it did not indicate AC or DC voltage. A review of a drawing from a different vendor of similar valves disclosed that they also did not specify the operating voltage requirements. The review of these records did not disclose the reason that the CE specification requirement was not implemented by the vendor. Additional followup will be made during a future inspection at the vendor facility. As a result of this inspection, CE instructed applicable cognizant engineers to verify that the correct voltage requirements were specified on vendor drawings, or they are to obtain verification (in writing) from the vendor.

There were no nonconformances or unresolved items identified in this area of the inspection.

2. Design Inspection - The chemical volume and control system (CVCS) charging pump was selected for this inspection. To initiate inspection in this area, five specifications, four internal memoranda, four letters (between CE and the AE), seven calculations, and eight DD/A's applicable to the CVCS charging pump were examined. This inspection effort will be completed during the next regularly scheduled inspection.

PERSONS CONTACTED

Docket/Report No. 99900401/82-02

Dates 7/12-15/82
Inspector R.H.Brickley

Page _ of _

NAME(Please Print) TITLE(Please Print) ORGANIZATION(Please Print) George R Fargo Mgr. Gac CE Mar GQS Douglass L. Levan Supr. Gac AgoTiNO F.G. HARVEY ERA AUDITOR P.D. FORD SUPY. GQS P.W. WIELHOUWER Sr. Consuling Engrees Y. m. Callaghan G. N. HUBA W.G. BLOWERS Supervisor, Pomp Group) R Wade

DOCUMENTS EXAMINED

Docket No. 99900401 Report No. 82-02 Page 1 of

1	2	TITLE/SUBJECT	3	. 4
,	8	REport of Audit No. GQS-82-00Z		NA
2	8	DOCUMENTATION PACKAGES FOR J-2349-A+hRU M	4/16/82	1
3	8	REPORT of Audit - Jos OAT Co.	5/3/82	0
4	8	REPORT of Audit-W/ITGD	11/32/82	0
5	3	QUALITY SYSTEM INSTRUCTION 17.3 (VENDOR TRECORD REVIEW		0
6	6	QSI Checklists	7/14/82	NH
7	6	Witness & Hold Points	4/21/82	NA
8	8	DD/A FOR SOBE 6473-PE-231, Kev. 5	4/28/82	NA
9	6	PCE-82-082 (NEC IN SPECTION 82-01 NON-CONFORMANCE)	6/17/82	NA
10	8	DD/A for Spect 00000-PE-707, TEV 2 2 3		NA
11	4	PCE-82-031		

Document Types:

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

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

INSTEAD OF REQUIRED DC Coils FOR SoleNoid VALVES.

DOCUMENTS EXAMINED

Docket No. 99900401 Report No. 82-01 Page 1 of 1

1	2	TITLE/SUBJECT	3	4
1	8	FAR = 13172-249	5/11/82	0
2	2	00000-PE-707 (GENERAL ENG. Spec. for Nuclear SERVER VALVES)	4/28/10	0
3	7	CE Ltr L-CE-7259(50.55 (e) Report on SAMPLE System VALVES)	6/10/82	NA
4		HOKE # N93036641 (PNEUMATIC VALVE, Plue Type, Globe PATTERN		
		5/16 DIA ORIFICE, ANSI 1500, Bellows SEAL 3/8 GYROLOK IN		
		AND OUT, AIR to OpEN OPERATOR)	10/26/18	C
5	7	Hoke Doc. # 1088 (Project PlAN, CE INC. PO 9601801, FPEL		
		Co, Spint Lucie Unit #2)	6/27/78	A
6	3	HOKE PROC. HPT-289 (ASSEMBLY, CLEANING & TEST PROCEDURE)	6/28/78	A
7	8	C.E. CERTIFICATE OF EQUIPMENT	3/21/79	0
8	8	C.E. RECORDS Checklist	3/21/79	0
9	8	C.E. SURVEIllANCE REPORT	12/6/78	0
10	8	HOKE - HUGLEAR TRAVELER # NIO88B	12/11/18	0
11	Z	HOKE-CERTIFICATE OF CONFORMANCE FOR PART N90366YI		0
12	2	13172-PE-713 (Nuclear Service Instrument Valves)	4/7/77	2
13	4	PCE-82-096 (Action Required by Cog. Engineers AS A TESUIT		
		of NTC Audit)	7/14/82	0

Document Types:

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

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

DOCUMENTS EXAMINED

Docket No. 99900401 Report No. 72-02 Page 1 of 3

1	2	TITLE/SUBJECT	3	4
1	3	QADP 5.0 (DESIGN PROCESS)	7/1/80	1
2	3	QADP 5.1(DESIGN INPUTS)	5/3/76	0
3	3	GADP 5.Z(DESIGN ANALYSIS)	4/2/79	3
4	3	QADP 5.3 (INTERFACE CONTROL)	5/1/80	1
5	3	QADP 5.4 (DESIGN VERIFICATION)	4/30/81	3
6	3	QADP 5.6 (Specification Procedures FOR The PREPARATION AND		
		Quality ASSURANCE of Specifications)	5/6/77	2
7	3	QADP 5.7 (DESIGN CHANGE, FIELD CHANGE (FAR), CORRECTIVE ACTION)	10/15/81	3
8	6	V-PSD-088 (TRANSMITTAL OF ANPP CVCS COMPONENT DESIGN TARAMETERS)		
9	6	SP-POD-139 (System &C CVCS DESIGN PARRAMETERS)	7/23/75	
10	6	GP-PPE-140 (Component Environmental Qualification for System BO	QC, FF	
		Standard Design)	1/7/75	
11	2	SYSBO-PE-403 (Spec. for Recip. Charbing Rump)	1/28/76	O
12	2	SF-PCE-265 (Spec. Changes to SYS80-PE-403, Rev oo)	4/5/76	0
1-3	2	SP-PCE-245 (Spec. CHANGES to SYSEO- PE-403, REV 00)	4/12/77	1
14	3	PE GA PROCEDURE No. 001 (DESIGN GA PROCEDURE)	8/1/75	1
15	8	Plant ENG. Doc. Approval Distribution - 54980-PE-403 REV 00	:/28/76	NA

Document Types:

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

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

DOCUMENTS EXAMINED

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1	2	TITLE/SUBJECT	3	4
4	8	PE Decument Approval/Distribution - SP-PCE-Z65 12-0	4/19/76	NA
17	8	PE DOCUMENT Approval/Detribution - SP-PCE - 265 121	4/28/77	NA
18	8	CAKULATION = MISC - PEC-189 (CVCS PURITICATION COMPONENT DESIGN		
		REQUIREMENTS AND SIZING STANDARD PLANT)	4/17/74	0
19	8	CAlculation #MISC-PEC-189	3/20/15	1
20	7	Calculation # MISC- PEC- 189	9/30/76	2
21	8	CAlculation # MISC - PEC- 189	6/24/77	3
22	8	Calculation # MISC - PEC - 189	9/19/77	4
23	Y	CALCULATION # V- PEC-032 (ARIZONA CVC) PURIFICATION COMPONENT		
		DEGIGN REQUIREMENTS AND SIZING)	14/13/76	0
24	X	Calculation #V-PEC-03Z	7/13/77	
25	2	14273-PE-403 (Project Specification for Reciprocating Changing		
		Pumpo for ANPP Unito 1, 2, +3)	2/4/76	0
26	6	V-PSD-088(ANPP CVCS COMPONENT DESIGN PARAMETERS)	2/10/26	NA
27	8	DOCUMENT Approval/DISTRIBUTION (ARIZ. CHARGING PUMP OUTLINE DWG)	5/18/76	NA
28	1	TO LAPD (ANPP-CHARGING FUMP OUTLINE DUS-DIS385, E-O)	5/19/16	NA
29	7	LAPD -> CE (Specs. 14273-PE-403, RO; SYSRO-PE-403, R-0)	4/7/76	NA

Document Types:

- 4. QA Manual
- 1. Drawing 5. Purchas Order
- 2. Specification 6. Internal Memo 3. Procedure 7. Letter

 - 8. Other (Specify-if necessary)

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

Scope/Module Design Inspection

DOCUMENTS EXAMINED

82-02 3 Report No. Page 3 of

TITLE/SUBJECT	3	4
C.E LAPD (ANPP PACKAGE 451 CHARSINS TUMD)	5/20/76	W
C.E LAPD (DWG DI5385, PUMO OUTLINE, K.1)	2/26/16	KN
DOCUMENT REVIEW FORM (Spec H273-PE-463, TREY 0)	2/11/2	NA
14273-PE-403 (RELIGENCATING CHARGING PUMDS FOR ANPP)	4/12/82	,
Downer Destailation Hoperwal (Spec 14273- PE-403, Rev 1)	4/8/82	NH
 DD/A (REGIN V-PE-76-038)	4/19/76	NA
D D/A (Reg'N V-PE-76-037)	4/14/76	NA

Document Types:

- Drawing Specification Procedure QA Manual 13.5.
- Purchas Order Internal Memo 8.7.6.5
 - Letter
- Other (Specify-if necessary)

- Sequential Item Number Type of Document Date of Document Revision (If applicable) 4.3.5.1

ATTENDANCE LIST

are: 7/15/82	Pre-inspection Conference	RET NO. 99900401 82-02 Post Inspection Conferen
AME (Please Print)	TITLE (Please Print)	ORGANIZATION Print)
R. H. Brickley	REACTOR ENGINEER	NRC/KIV
P.D. FORD	0.95	C-E
M. R. ETHERINGE	UP GENISMAL SEAUCES	C-E
A.N. MAJOR	MIGK, PLANT COMPONENTS	C-E
G. J. HUBA	MGR EQA	CE
F. G. HARVEY	EGA AUDITOR	CE
J.E. ROGERS	NUCLEAR LICENSING	CE
T. R. Swift	Mar Gas	CE
C. W. HOKEMAN	DIRECTOR GQA	C-E.