DETAILS

Persons Contacted

Public Service of Indiana (PSI)

*W. Petro, Vice President Nuclear Services
*L. Ramsett, QA Officer
*C. Beckham, QE Manager
*F. Carchedi, QE Superintendent (Mech)
E. Carmichael, Quality Engineer
S. Schmalz, QC Supervisor

Cherne Contracting Corporation (CCC)

*A. Sirard, Project Manager
*A. Dolgaard, QC Manager
*R. Horine, QC Engineer
*C. Rosin, QA Manager
L. Jones, Principal Engineer
D. Piippo, Welding Superintendent

*Denotes those attending the entrance and/or exit meeting.

Functional or Program Areas Examined

1. Review of Implementing Procedures

The inspector selected the following sections of the Cherne Quality Assurance Manual, Quality Control Procedures and Welding Procedures for review of conformance to NRC, ASME Code, and AWS requirements.

a. Quality Assurance Manual Review

(1) Section 5.0, Revision 0, Training

(2) Section 9.0, Revision 0, Document Control

(3) Section 11.0, Revision 6, Material Control

(4) Section 12.0, Revision 0, Process Control

(5) Section 13.0, Revision 5, Welding

(6) Section 14.0, Revision 0, Nondestructive Examination

(7) Section 16.0, Revision 0, Calibration

(8) Section 17.0, Revision 5, Nonconformance and Corrective Action

b. Implementing Procedures Review

(1) 5.1, Revision 11, QC Personnel Qualification and Certification Program Manual.

(2) 9.1, Revision 4, Design Drawing and Document Control Procedure for Marble Hill Jobsite.

(3) 11.1, Revision 6, Receipt Inspection of CCC Procured Safety Related Items.

(4) 11.16, Revision 4, Issuance of Material.

(5) 12.3, Revision 5, Traveler Package Procedure.

(6) 12.5, Revision 5, General Requirements for Fabrication and Installation of Safety Related Components.

(7) 13.1, Revision 1, Welding Parameter Card.

(8) 13.2, Revision 7, General Welding Specification.

(9) 13.3, Revision 10, Identification, Storage and Handling of Weld Material.

(10) 13.9, Revision 7, General Weld Repair Procedure.

(11) 14.3, Revision 3, Visual Examination Procedure.

(12) 14.1.12.76, Revision 10, NDE Examination Personnel Qualification and Certification Program Manual.

(13) 14.2.12.76, Revision 6, Visual Dye Solvent Removal Liquid Penetrant Examination.

(14) 14.5.1.77, Revision 8, Magnetic Particle Examination.

(15) 14.6.1.77, Revision 5, Radiographic Examination of Welds.

(16) 17.1, Revision 4, The Reporting of Deficiencies to the Nuclear Regulatory Agency.

(17) 17.2, Revision 9, Processing of Nonconformance.

c. Welding Procedure Preview

(1) WPS-101BC21-2.25, Revision 2, Dated 3/8/82
PQR-16, 16A, 17, 17A
GTAW (insert) SMAW, P-1 to P-1 Material

(2) WPS-101B011-0.75, Revision 3, Dated 3/4/82
PQR-12
SMAW, P-1 to P-1 Material

(3) WPS-101B021.0.750, Revision 2, Dated 7/16/79
PQR-10
GTAW/SMAW, P-1 to P-1 Material

(4) WPS-108B0-21-1.728, Revision 3, Dated 4/14/82
PQR-182
GTAW/SMAW, P-1 to P-8 Material

(5) WPS-105B021-0.864, Revision 0, Dated 10/15/80
PQR-150, 151, 152
GTAW, P-1 to P-5 Material

(6) WPS-808BC21-4.20(CT), Revision 1, Dated 3/9/82
PQR-85
GTAW/SMAW (insert), P-8 to P-8 Material

(7) WPS-808BC21-1.0(CT), Revision 7, Dated 3/9/82
PQR-82, Revision 2, 83, Revision 1
GTAW/SMAW, P-8 to P-8 Material

No items of noncompliance or deviations were identified.

2. Weld Material Control

The inspector examined the storage and control of welding materials at the Cherne warehouse and at field station 2 in the auxiliary building at elevation 383'0".

The following warehouse storage ovens were examined for calibration and content:

. Oven No. 9704, E7018 Material, Cherne Code No. 1.2622
. Oven No. 11401, E7018 Material, Cherne Code No. 1.129
. Oven No. 9706, E309 Material, Cherne Code No. 1.14/1.16

The following holding ovens and welding materials were examined at field station 2:

. Oven No. 11403, E7018 Material, Cherne Code No. 1.2623/1.2622
. Oven No. 11408, E308 Material, Cherne Code No. 1.15/1.18
. Oven No. 12267, E309 Material, Cherne Code No. 1.14/1.16

The inspector selected the following Cherne Welding Materials for traceability to the receipt inspection report (RIR) and purchase order.

. Cherne Code No. 1.15, Purchase Order No. M-16307
RIR No. 2.14
Material [illegible]16, Heat No. 90982, Lot No. 3169102
CMTR No. 9076-3593

- Cherne Code No. 1.16, Purchase Order No. M-16307
  RIR No. 2.15
  Material E309-16, Heat No. 18575, Lot No. 2786125
  CMTR No. 9076-4329

- Cherne Code No. 1.45, Purchase Order No. M-17274
  RIR No. 2.134
  Material E7018, Heat No. 411E6091, Lot No. 03-3-K809D
  CMTR No. 2314

- Cherne Code No. 1.14, Purchase Order No. M-16307
  RIR No. 2.13
  Material E308-16, Heat No. 376375, Lot No. 2289002
  CMTR No. 9076-4133

No items of noncompliance or deviations were identified.

3. Personnel Training and Certifications

The inspector examined the following Cherne inspector and welder certification records for conformance to the requirements of NRC, ASNT-TC-1A, ANSI-N45.2.6, and ASME Code Sections III and IX.

Welder Qualification Records

Name	Symbol	Process
P. Schenllenberger	DN	SMAW
J. R. Fee	DU	SMAW
G. Vanes	FP	SMAW
R. Wilson	DY	SMAW
H. Elburg	CF	GTAW/SMAW

Inspector Qualification Records

Name	Process	RT	MT	PT	VT
C. Jergens	Level	III	III	III	III
D. Corbesia		III	III	III	III
D. Lusch		II	II	II	II
C. French					II
N. Prior			II	II	II

No items of noncompliance or deviations were identifi.d.

4. Nonconformance Report Review

The inspector selected the following Cherne nonconformance reports from the NCR log for examination of disposition and corrective actions.

NCR No.	File No.	Disposition
5796	6.860	Repair-Open
5638	6.862	Repair-Open
5637	6.856	Use-as-is-Open
4568	6.832	Transmitted to licensee for disposition-Open
4594	6.815	Closed, July 26, 1982

Corrective actions are indicated on the NCR.

No items of noncompliance or deviations were identified.

5. Observation of Work

The inspector observed in-progress welding being performed on weld joints in the following systems. In addition, related travelers and drawings were examined.

System-Fire Protection Control

Process Sheet-7840-1FPC-630-08
Component 1, MK-NW-38-193X
Component 2, MK-NW-38-194X
Weld Material-E7018, Code No. 12622
Weld Procedure-101BR11-1.875, Revision 6

System-Essential Service Water

Process Sheet-7840-1SXC005-01
Component 1, MH-02-07
Component 2, MH-02-25
Weld Material-E7018, Code No. 1.2622
Welding Procedure-101BR-11-1.875, Revision 6

System-Essential Service Water

Process Sheet-7840-2SXC-051-03
Component 1, 2AB3-1MB (Proc. Pipe)
Component 2, ML-02-12
Weld Material-E7018, Code 1.2622/1.2623
Weld Procedure-101BR-11-1.875, Revision 6

No items of noncompliance or deviations were identified.

6. Document Control Review

The inspector selected the following S&L drawings from the document index and compared the latest transmitted revision with the stick files in the document control center and the files at field station 2 in the auxiliary building.

Drawing No.	Revision No.	Sheet No.
M-518	H	62
M-518	K	63
M-518	C	73
M-518	B	85
M-519	J	3
M-548	G	1
M-549	D	2

No items of noncompliance or deviations were identified.

7. Equipment Calibration Review

The inspector selected the following items from the Cherne QC Managers calibration log for examination of calibration requirements in accordance with the Cherne calibration procedure.

Equipment Model No.	Description	S/N	CCC-No.
P-90	MT.P-90 Unit	781157	7900
DA-200	MT. Parker Contour Probe	5313	
UV-1	Columba Voltmeter	794-4573	
STD-2-250	Torque Wrench		T-8
131D	Nortec Flaw Dector	297	12385
472	0-600 PSI Dead Weight Tester	15767	
3D0-100	Standard 100 psig Gage	795253	

During the inspectors examination of the QC Managers log it was noted that where there is more than one piece of equipment it is not listed on the QCM log nor are any of the items identified on the log by serial number or CCC number. However, serial numbers an/or CCC numbers are on the recall cards in the calibration tool room. This was discussed at the exit meeting. The inspector stated that all equipment in the system should be identified on the QCM log. By either serial number or CCC number. The licensee and contractor have committed to revise the procedure to include this requirement. This is an open item (546/82-16-01; 547/82-16-01).

8. Exit Meeting

On August 26, 1982, the inspector met with licensee and Cherne personnel identified in the (Persons Contacted Section of the report). The inspector observation related to calibration were discussed along with the scope and findings of the inspection.