

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-373/78-29; 50-374/78-21

Docket No. 50-373; 50-374

License No. CPPR-99; CPPR-100

Licensee: Commonwealth Edison Company
Post Office Box 767
Chicago, IL 60690

Facility Name: La Salle County Station, Units 1 and 2

Inspection At: La Salle Site, Marseilles, IL

Inspection Conducted: November 8 and 9, 1978

P. A. Barrett
Inspector: P. A. Barrett

12-15-78

R. L. Spessard
Approved By: R. L. Spessard, Chief
Engineering Support Section 1

12/18/78

Inspection Summary

Inspection on November 8 and 9, 1978 (Report No. 50-373/78-29; 50-374/78-21)

Areas Inspected: Observation of Unit 1 instrumentation installation activities and Unit 2 evening shift welding activities; and review of related records. The inspection involved a total of 14 inspector-hours onsite by one NPC inspector.

Results: Of the two areas inspected, one item of noncompliance was identified in one area - (Infraction - failure to follow installation drawing - Paragraph 1.b).

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DETAILS

Persons Contacted

Plant Personnel

- *R. J. Legner, Quality Assurance Supervisor
- *J. R. Kodrick, QA Mechanical Coordinator
- *R. T. Rose, Station Construction
- *E. Wendorf, Station Construction
- *S. P. Johnson, Station Construction
- *J. L. Gailing, Station Construction
- *D. J. Skoza, QA Engineer
- *R. Scott, Station Nuclear Engineering Department
- *T. E. Watts, Station Nuclear Engineering Department

Other Personnel

- *R. C. Schulz, Quality Control, Morrison Construction Company
- *M. Whury, Quality Control, Morrison Construction Company
- *K. J. Hamilton, Project Manager, Morrison Construction Company
- *E. K. Krutz, Quality Control, Sargent & Lundy
- *C. T. Brinson, Quality Control, General Electric
- *P. Irezan, Construction Engineer, General Electric

*Denotes those present at the exit interview.

Functional or Program Areas Inspected

1. Observation of Instrumentation Work Activities

- a. The RIII inspector observed and discussed with craft and QC personnel the Unit 1 fabrication activities of the instrument pipe and components identified on Morrison Construction Company isometric drawings No. HP-37, Rev. A and No. HP-38, Rev. A. The instrumentation is part of the high pressure core spray system.

The components, pipe, and weld rod were as specified. The completed welds exhibited no cracks, porosity, overlap, undercut, or lack of fusion. A QC inspector was present at the work activity.

The weld procedures No. P8-18LS, Rev. 3 and No. IS-14LS, Rev. 3 were controlled and distributed in accordance with the master log and were easily accessible to the welder.

During a discussion, welder No. J-10 exhibited thorough knowledge of the context of the pertinent weld procedures.

The RIII inspector inquired as to how the voltage and current were being controlled during the welding of the above instrument lines. The welding grid control No. 434 had a dial (rheostat) which was used to adjust the current input during the weld process. The grid control was not calibrated. The licensee provided the Weld Procedure Amperage/Voltage Check record, which indicated verification of the specified amperage and voltage of approximately five weld operations per week. A calibrated volt/ammeter was used for these checks. The licensee stated that these indicated measurements were made at the ends of the weld leads and were made on a random selection of welders.

Welding grid control No. 434 had never been included as part of the weld process system during any of the documented volt/amperage verifications. The time duration on site of welding grid control No. 434 could not be established.

The RIII inspector identified no conflict between the above activities and ASME III Division 1, Article NCA-4000 and ASME IX, 1974 Edition, Part QW.

- b. The RIII inspector observed the installation of two Unit 1 redundant reactor water level instrumentation lines. One line was identified on MCCo isometric drawings No. NB-19, Rev. 0 and No. NB-18, Rev. 0. The second line was identified on MCCo isometric drawings No. NB-21, Rev. 0 and NB-22, Rev. 0. The components, location and welds were in accordance with the applicable isometric drawings, except as described below. The redundancy and separation of the above lines and instruments were adequately maintained. The line welds exhibited no cracks, porosity, overlap, undercut or lack of fusion.

On November 8, 1978, the RIII inspector identified the field pipe, shown on isometric drawing No. NB-19, Rev. 0, as being installed incorrectly. The field pipe was welded to the wrong fabricated NSSS pipe. Therefore, the field installed pipe supplied the wrong instruments. The installation record indicated that the field pipe had been accepted as installed. Before the completion of the NRC inspection this matter was documented on Nonconformity Reports No. 334 and No. 335. This condition is contrary to 10 CFR 50, Appendix B, Criterion V and CECo Topical Report CE-1-A, Rev. 5, Section 5 and is an item of noncompliance, as identified in Appendix A of the report transmittal letter. (373/78-29-01)

- c. The RIII inspector verified that the following reactor water level instruments were of the ranges specified on General Electric drawing No. 234A9301TD, sheet 10:

NSSS Instrument Panel 1H22-P026

No. 1B21-N037A
No. 1B21-N037C
No. 1B21-N024A

NSSS Instrument Panel 1H22-P027

No. 1B21-N037B
No. 1B21-N037D
No. 1B21-N024B

These instruments were connected to the pipes identified on isometric drawings No. NB-18, Rev. 0, NB-19, Rev. 0, NB-21, Rev. 0, and NB-22, Rev. 0.

One item of noncompliance was identified, as previously described.

2. Independent Inspection

During the night shift, the RIII inspector observed some of the in-process weld activities of a twelve inch pipe in the Vent Main Steam System. The weld placement connected piece 2MS04BV-12" No. 4 (fabrication drawing No. VMS2185) to piece 2MS04BV-12" No. 5 (fabrication drawing No. VMS2186). The weld was identified as joint No. MS637 on traveler No. MST33. Welder No. F-35 was making the root pass (consumable insert) in accordance with weld procedure No. P1-8LS, Rev. 6. The weld exhibited no internal or external defects. The backing gas flow rate was within the specified range. On the following day the RIII inspector observed the completed weld placement and identified no defects.

No items of noncompliance were identified.

3. Record Review of Instrumentation Work Activities

- a. The RIII inspector reviewed Revision A to drawings No. HP-37 and HP-38. The drawings had been revised to identify weld procedure No. DS14LS, Rev. 3 which had been used to weld the specified dissimilar materials. The revisions to the drawings were approved by an authorized welding technician.

The instrument lines, identified on the above drawings, were being assembled by welder No. J-10. The MCo Record of Welders Qualification Test, WPS No. P1-11LS, indicated the appropriate qualification for welder No. J-10. The record indicated welder qualification in all weld positions for both of the procedures, No. P8-18LS, Rev. 3 and No. DS-14LS, Rev. 3, used in the above fabrication. The Quarterly Welders Process Verification Log indicated that welder No. J-10's qualifications were current.

The QC inspector of the above instrument lines was certified to Level II qualifications per MCo's Training, Test Certification Record.

- b. The RIII inspector reviewed the installation records (isometric drawings No. NB-18, Rev. 0, No. NB-19, Rev. 0, No. NB-21, Rev. 0, and NB-22, Rev. 0) for the aforementioned redundant instrumentation lines. The records identified the welds, welders, fit up verifications, component verifications, governing installation documents, and the QC inspector. The records were identifiable and retrievable.
- c. The welding activities of the observed Vent Main Steam System pipe were being performed by welder No. F-35. The MCo Records of Welders Qualification Test, WPS No. P1-8LS dated January 11, 1978 and WPS No. P1-11LS dated January 11, 1978 indicated the appropriate qualification for welder No. F-35. The Quarterly Welders Process Verification Log indicated that welder No. F-35's qualifications were current.

The Weld Data Report for the Vent Main Steam System weld was being accomplished in accordance with MCo Standard Operating Procedure No. PC-17, Rev. 4.

No items of noncompliance were identified.

Exit Interview

The inspector met with licensee representatives (denoted in the Persons Contacted paragraph) at the conclusion of the inspection on November 9, 1978. The inspector summarized the scope and findings of the inspection. The licensee acknowledged the information.