

I. General

Steps have been taken to correct specific weaknesses in the areas of quality assurance, including management and training, as identified in the noncompliances referenced below. Licensee corrective actions have been reviewed and onsite inspection performed when necessary. Programmatic improvements were made by an organizational change whereby the Quality Control organization reports to the Corporate Quality Assurance Manager.

II. Specific

A. Contention

"The Catawba facility displayed evidence of weaknesses in the area of quality assurance, including management and training."

The basis, NRC actions, and licensee corrective actions for this contention are discussed in contentions B-D below.

B. Contention

"Quality assurance weaknesses were characterized by instances of inadequate design reviews, procedures not issued, specifications and commitments not translated into procedures, and audit programs not established."

1. Basis

References

Examples of weaknesses associated with inadequate design reviews include problems in civil design calculations, specification of welding symbols on drawings, and seismic qualification of diesel generator battery racks.

IE Rpt. 50-413, 414/80-09, 80-16, 80-23

Examples of weaknesses associated with appropriate procedures not being issued, and procedures being inadequate include lack of implementing procedures for a corporate records vault, lack of corporate design nonconforming procedures, and lack of site procedures for testing/maintenance of concrete vibrators. In the area of installation of electrical equipment, procedural weaknesses included inadequate procedures for: inspection of electrical cables; inspection of housekeeping in areas adjacent to Class 1E electrical equipment; and calibration of electrical measuring and test equipment. There was also a lack of procedures for the construction electrical test program.

IE Rpt. 50-413, 414/80-09, 80-11, 80-12, 80-16

Weaknesses in specifications and commitments not being translated into procedures were identified in the areas of rigging of equipment, inspector qualification requirements, identification of safety related drawings, identification of Class 1E electrical equipment, and specification of fastening materials for electrical terminations to motors.

IE Rpt. 50-413, 414/79-23,
80-05, 80-14

There was one instance of failure to establish an audit program for corporate design.

IE Rpt. 50-413, 414/80-09

2. NRC Action

These and related topics were discussed with senior licensee management at a meeting on October 28, 1980. As required, followup inspections of licensee corrective actions have been performed on the items of noncompliance. In all cases inspected, licensee actions appeared to have been adequately implemented. Three items yet to be reviewed in further detail are in the areas of civil design calculations, corporate design nonconformance procedures and specification of welding symbols on drawings.

References

IE Rpt. 50-369/81-17
IE Rpt. 50-413/414/80-04
80-05, 80-07, 80-10,
80-12, 80-14, 80-15,
80-16, 80-19, 80-22,
80-23, 80-28, 80-31,
80-34, 80-36, 81-07,
81-08, 81-12 and 81-17

3. Licensee Corrective Actions

The licensee has taken specific corrective actions in response to each of the identified items of noncompliance. License actions have included, as appropriate: implementation of new or modified procedures; training of personnel; correction of each specifically identified inadequate installation, drawing, specification or calculation; and generic evaluation. The licensee, in addition, made an organizational change whereby the Quality Control organization reports to the Corporate Quality Assurance Manager.

References

IE Rpt. 50-413, 414/80-12,
80-14 and 80-16
2/28/80 NRC letter
2/11/80 licensee letter
4/20/80 licensee letter
5/28/80 licensee letter
7/17/80 licensee letter
8/5/80 licensee letter
8/15/80 licensee letter
8/29/80 licensee letter
9/9/80 licensee letter
11/26/80 licensee letter
12/31/80 licensee letter

C. Contention

"There were numerous items of noncompliance involving failure to follow procedures for activities involving welding, concrete placement, design, quality control inspections, records control, and electrical equipment installation."

1. Basis

Examples of noncompliances involving failure to follow procedures include problems in welding material control, undersized welds, failure to document a nonconforming condition, failure to provide an identifiable heat number on a weld record and failure to properly control superseded or revised drawings.

Additional procedural problems included failure to follow temporary record storage, electrical cable termination, piping protection, and protection of electrical cable procedures.

Noncompliances were also identified for failing to follow procedures in the areas of location of Class 1E electrical equipment, grouting for safety related pumps, installation of pipe hangers, and welding surveillance inspections.

2. NRC Action

These and related topics were discussed with senior licensee management at a meeting on October 28, 1980. Followup inspections of license corrective actions have been performed for all items of noncompliance. In all cases licensee actions were considered to be adequately implemented.

References

IE Rpt. 50-413, 414/80-4, 80-6, 80-10, 80-14, 80-16, 80-17

IE Rpt. 50-413/414/80-09, 80-19

IE Rpt. 50-413/414/80-05, 80-07, 80-14, 80-15

References

IE Rpt. 50-369/81-17, 50-413/414/80-04, 80-05, 80-07, 80-14, 80-15, 80-16, 80-19, 80-22, 80-31, 80-34, 80-36, 81-12 and 81-17

3. Licensee Corrective Actions

The licensee has taken specific corrective actions in response to each of the identified items of noncompliance. Licensee actions have included, as appropriate; modification of procedures; training of personnel; correction of each specifically identified inadequate installation, drawing or QA record; and generic evaluation.

References

IE Rpt. 50-413/414/80-04,
80-05, 80-07, 80-14, 80-16,
and 80-19
5/20/80 licensee letter
8/12/80 licensee letter
8/15/80 licensee letter
8/25/80 licensee letter
9/26/80 licensee letter
10/1/80 licensee letter

D. Contention

"Most ... items of noncompliance were attributed to weakness in the licensee's quality assurance and management overview process."

1. Basis

There were 33 noncompliances identified during the evaluation period. Fifteen involved failure to follow quality assurance (QA) procedures, and fourteen involved the lack of QA procedures or inadequate QA procedures. One item involved the lack of a design QA audit program.

References

See paragraphs B.1 and
C.1 above

2. NRC Action

These and related topics were discussed with senior licensee management at a meeting on October 28, 1980. In addition to followup inspections performed for the specific noncompliances, inspection frequency was increased. A total of 34 inspections will have been performed during the subsequent evaluation period versus 27 for this evaluation period. A senior resident inspector is permanently assigned and reviews the QA area regularly. Also, an indepth QA team inspection was performed at Catawba on January 26 - February 6, 1981.

References

IE Rpt. 50-413/414/81-02

3. Licensee Corrective Actions

The licensee has taken specific corrective actions in response to identified items of noncompliance. In addition, an organizational change was made whereby the Quality Control organization reports to the Corporate Quality Assurance Manager.

References

See paragraphs B.3 and C.3 above.