

Commonwealth Edison

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February 17, 1981

Mr. James G. Keppler, Director
Directorate of Inspection and
Enforcement - Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Subject: Byron Station Units 1 and 2
Cable Installation Deficiency
Report
NRC Docket Nos. 50-454 and 50-455

Dear Mr. Keppler:

On January 16, 1981, Commonwealth Edison Company notified Mr. J. E. Konklin of your office that certain electrical installation activities at Byron appeared to involve deficiencies reportable pursuant to 10 CFR 50.55(e). This letter fulfills the thirty-day reporting requirement of 50.55(e) regarding that item.

Description of the Deficiency

NRC Region III inspectors have pointed out that the QA/QC procedures, checklists, and surveillances presently used at Byron by Hatfield Electric and Commonwealth Edison are not adequate to assure proper cable installation.

Analysis of Safety Implications

Installation of cables according to those procedures did not provide adequate assurance that Class IE cables were installed according to the established design criteria.

Corrective Action

Thirty-two Hatfield Electric procedures have been revised to include and clarify items within those procedures that are required to ensure that Class IE safety-related cable installation will be done in accordance with established QA and engineering criteria. A list of the procedures that were revised is included here as Attachment 1.

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These revised Hatfield Electric procedures were reviewed by NRC Region III inspectors on January 29, 1981, and were found to be adequate. In addition, Commonwealth Edison QA procedure QP 15-1 has been revised and was found to be adequate by Region III inspectors.

Please address any questions that you have regarding this matter to my office.

Very truly yours,

T. R. Tramm

T. R. Tramm
Nuclear Licensing Administrator
Pressurized Water Reactors

Attachment

cc: Director of Inspection and Enforcement ✓

Attachment 1

Revised Hatfield Electric Company Procedures

<u>Procedure</u>	<u>Rev.</u>	<u>Issue</u>	<u>Title</u>
1	4	1	Method of Preparing Procedures
2	6	1	Installation of Class I Embedded Conduit
3	5	1	Installation of Class I Underground Duct Runs
4	6	1	Drawing Control
5	4	1	Class I Material and Equipment Receiving and Inspection
6	4	1	Reporting of Damaged or Nonconforming Material or Equipment
7	7	2	Electrical Design Change
9A	9	1	Class I Cable Pan Hanger Installation
9B	6	1	Class I Cable Pan Installation
9E	6	1	Class I Cable Pan Identification
10	8	1	Class I Cable Installation
11	6	1	Class I Cable Termination and Splicing
12	5	1	Installation of Class IE Equipment
12A	2	1	Modification of Class IE Equipment
12B	2	1	Installation of Diesel Generator 1200A Class IE Non-segregated Phase Bus
13C	2	1	Class I Cadweld Procedures
13AA	2	1	Class I Shielded Metal Arc Field Welding (AWS Prequalified)
13AB	2	1	Class I Shielded Metal Arc Field Welding (Qualified by Test)
13AC	1	1	Qualification of Welders
13AD	2	1	Arc Welding Electrode Control
13AE	2	1	Class I Visual Weld Examination Procedure
14	5	1	Handling and Storage of Safety Related Material and Equipment
16	5	1	Cable Storage and Handling
19	4	1	Equipment Turnover Reporting
20	5	1	Class I Exposed Conduit System Installation
23	8	1	Concrete Expansion Anchor Installation
25	1	1	Class I Installation of A 325 Bolts
26	3	1	Steel Stud Welding
27	2	1	Replacement of Gaskets on NAMCO EA-180 Limit Switches
28	1	1	Removal of Heat Shrink Tubing on Conax Penetration Assemblies
29	3	1	Field Initiated Request for Design Changes
30	3	1	Class I Cable Exposed to Construction Activities