

May 13, 1986

5-277

MEMORANDUM FOR: Richard W. Starostecki, Director
 Division of Reactor Projects
 Region I

FROM: Gary G. Zech, Chief
 Vendor Program Branch
 Division of Quality Assurance, Vendor
 and Technical Training Center Programs
 Office of Inspection and Enforcement

SUBJECT: RESULTS OF ASCO ELECTRICAL PRODUCTS INC. (AEP) INSPECTION

Enclosed for your information is a copy of an inspection report for AEP, Parsippany, New Jersey, Report Number 99901054. This report contains information concerning failures of molded case circuit breakers in Reactor Protection System monitoring panels applicable to Peach Bottom 2&3 and Limerick 1&2. If you require any additional information, please contact K. R. Naidu at 492-4179, or E. W. Merschhoff at 492-9045.

*Original Document
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Gary G. Zech, Chief
 Vendor Program Branch
 Division of Quality Assurance, Vendor
 and Technical Training Center Programs
 Office of Inspection and Enforcement

Enclosure:
 Inspection Report No. 99901054

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DCS
 VFB Reading
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 JStone
 LParker
 BGrimes
 JTaylor
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

JUL 11 1988

MEMORANDUM FOR: T. Murley* C. Rossi* J. Partlow B. Grimes
J. Sniezek* C. McCracken F. Congel
F. Miraglia* J. Roe G. Holahan
T. Martin* C. Miller* W. Lanning
S. Varga* B. Boger T. Martin, EDO
D. Crutchfield* G. Lainas A. Thadani
L. Shao* L. Rubenstein Operations Ctr.

FROM: E. William Brach, Chief
Vendor Inspection Branch
Division of Reactor Inspection Safeguards

SUBJECT: FORTHCOMING MEETING WITH NUMARC

DATE & TIME: Tuesday, July 12, 1988 at 10:00 a.m.

LOCATION: One White Flint North
11555 Rockville Pike
Room 10-B-11
Rockville, Maryland 20852

PURPOSE: To discuss the use of reassembled electrical components
in nuclear power plants

*PARTICIPANTS: NRC Utility
B. Grimes B. Raisin
K. Naidu A. Marion, et. al.
E. Baker
S. Stein
J. Knox
U. Potapovs
T. Martin
L. Shao
A. Thadani
F. Rosa

Edward T Baker for

E. William Brach, Chief
Vendor Inspection Branch
Division of Reactor Inspection and Safeguards

cc: See next page

*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, petitioners, intervenors, or other parties to attend as observers pursuant to "Open Meeting Statement of NRC Staff Policy," 43 Federal Register 28058, 6/28/78.

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20556

July 13, 1988

MEMORANDUM FOR: Gus C. Lainas, Assistant Director
for Region II Reactors
Division of Reactor Projects - I/II

THRU: David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II

FROM: James C. Stone, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II

SUBJECT: NRC MEETING WITH NUMARC ON JULY 12, 1988 REGARDING IN 88-19
AND IN 88-46

On Tuesday, July 12, 1988, NRR management and staff met with Messrs. R. Bell, A. Marion and B. Rasin of NUMARC to discuss the issue of possible use of defective refurbished electrical equipment in nuclear power plants and the use of electrical equipment supplied by Planned Maintenance Systems in nuclear power plants. A summary of this meeting and a list of attendees is enclosed for your information.

James C. Stone

James C. Stone, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II

Enclosures:
As stated

cc:
See next page

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MEETING SUMMARY OF NRC/NUMARC

MEETING ON JULY 12, 1988

DEFECTIVE REFURBISHED ELECTRICAL COMPONENTS

On Tuesday, July 12, 1988, NRR management and staff met with Messrs. R. Bell, A. Marion and B. Rasin of NUMARC to discuss NRC concerns with the possible use of defective refurbished electrical components in nuclear power plants. Five west coast companies have been identified as being involved in the sale of refurbished electrical components, as detailed in Information Notice 88-46.

Discussion centered on:

1. The list of customers in IN 88-46 (Attachment 1) is preliminary. Additional reviews that are currently underway may expand the list.
2. The original equipment manufacturer list in IN 88-46 (Attachment 2) is preliminary and was developed to identify those components that could be used in safety related applications and were found to be among the components supplied by the five companies. Further reviews could expand this list.
3. As new information concerning either customer identification or original equipment manufacturer is developed it will be made available to the utilities.
4. Records of the five companies do not show the source of the electrical components.
5. An NRC Bulletin will be forthcoming on these issues.

NUMARC representatives indicated that an ad hoc committee would be formed to advise the utilities on how to proceed with this issue.

One other subject that was discussed was the Bulletin being prepared on the use of electrical components supplied by Planned Maintenance Systems (IN 88-19 details the concerns). NUMARC was provided draft copies of the Bulletin and they were asked to provide any comments they have concerning the technical issues involved. A copy of the draft Bulletin is attached to these minutes.

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF NUCLEAR REACTOR REGULATION
WASHINGTON, D.C. 20555

August xx, 1988

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NRC BULLETIN NO. 88-XX: INDETERMINATE QUALIFICATION OF CLASS 1E COMPONENTS SUPPLIED BY PLANNED MAINTENANCE SYSTEMS, INCORPORATED

Addressees:

All holders of operating licenses or construction permits for nuclear power reactors.

Purpose:

The purpose of this bulletin is to request that addressees verify whether they have procured components from Planned Maintenance Systems, Incorporated (PMS) of Mount Vernon, Illinois, and, if they have, take actions to either ensure that components supplied by PMS comply with the IEEE standards for qualifying Class 1E equipment for their intended service, demonstrate that the identified components are acceptable for their intended use, or replace the components.

Description of Circumstances:

As discussed in NRC Information Notice No. 88-19 "Questionable Certification of Class 1E Components," dated April 26, 1988, a 10 CFR Part 21 notification submitted on April 1, 1988 by the Wolf Creek Nuclear Operating Corporation (WCNOC) brought into question the validity of Certificates of Compliance issued by PMS for Class 1E fuses. One of the requirements of the WCNOC purchase order issued to PMS was that the fuses were to be supplied in accordance with the requirements of a specific fuse qualification specification for Class 1E equipment. The PMS Certificate of Compliance supplied with the order certified that all of the procurement document requirements had been met and no deviations from the requirements had been identified; however, a subsequent WCNOC surveillance revealed that the records in PMS's possession did not support the statement on the PMS Certificate of Compliance that all the purchase order requirements had been met.

In response to this notification, the NRC staff inspected PMS. The NRC inspectors found little or no evidence that indicated that PMS had performed its contractually required IEEE-323 activities to qualify components as Class 1E. In addition, PMS could not provide the NRC inspectors with sufficient information to accurately identify the amount or type of Class 1E equipment they may have supplied to nuclear facilities. Thus, the NRC staff believes that there may be potential safety implications at facilities that have received Class 1E certified components from PMS or have subsequently certified commercial grade items as Class 1E based on activities performed by PMS.

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Actions Requested:

1. All addressees are requested to, within 60 days of the receipt of this bulletin, review their purchasing records to determine whether they have procured safety-related components from PMS. This review should cover the period from January 1, 1985, the date PMS began business, to the present. A list of PMS's customers (Attachment 1) has been developed through the NRC staff's review of PMS documents. It is emphasized that the NRC staff has not reviewed all PMS documents; therefore, the review of records should not be limited to the facilities on this list. In addition, addressees are requested to perform a similar review for non-safety-related related components on a best effort basis.
2. All addressees that determine that they have procured components from PMS are requested to develop a list of all PMS-supplied components. This list should include the type of component (for example, relay, fuse, switch), the component's size and voltage rating, whether or not the component was purchased as Class 1E, and the chain of purchase.
3. All holders of operating licenses for nuclear power reactors that determine that components procured from PMS are currently installed in safety-related systems are requested, within 60 days of the receipt of this bulletin, to take appropriate actions to ensure that the identified components are in compliance with the appropriate IEEE standard(s) for qualifying equipment as Class 1E, demonstrate that the identified components are acceptable for their intended use, or replace the components.
4. All holders of construction permits for nuclear power reactors that determine that components procured from PMS are installed in safety-related systems are requested, on a schedule compatible with the reporting requirements discussed below, to take appropriate actions to ensure that the identified components are in compliance with the appropriate IEEE standard(s) for qualifying equipment as Class 1E, demonstrate that the identified components are acceptable for their intended use, or replace the components.
5. Records generated during the completion of Items 3 or 4 above shall be documented and maintained in accordance with plant procedures for possible NRC audit.

Reporting Requirements:

1. All holders of operating licenses for nuclear power reactors are required to, within 90 days of the receipt of this bulletin, provide a written report that:
 - a. Confirms that no components have been procured from PMS, or
 - b. Forwards the information requested in Item 2 above, and either confirms that the actions requested in Item 3 above

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have been completed or provides an alternative schedule for completion of these actions and verifies that a justification for continued operation has been completed and is being retained for NRC audit.

2. All holders of construction permits for nuclear power reactors are required to, within 90 days of the receipt of this bulletin, provide a written report that:

- a. Confirms that no components have been procured from PMS, or
- b. Forwards the information requested in Item 2 above.

3. All holders of construction permits for nuclear power reactors are required to, prior to initial fuel load, provide a written report that confirms that the actions requested in Item 4 have been completed.

The written reports required above shall be addressed to the U. S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, D.C. 20555, under oath or affirmation under the provisions of Section 182a, Atomic Energy Act of 1954, as amended. In addition, a copy shall be submitted to the appropriate Regional Administrator.

This requirement for information was approved by the Office of Management and Budget under blanket clearance number 3150-0011. Comments on burden and duplication should be directed to the Office of Management and Budget, Reports Management, Room 3208, New Executive Office Building, Washington, D.C. 20503.

If you have any questions about this matter, please contact the technical contact listed below or the Regional Administrator of the appropriate regional office.

Charles E. Rossi, Director
Division of Operational Events Assessment
Office of Nuclear Reactor Regulation

Technical Contact: Joseph J. Petrosino, NRR
(301) 492-0979

Jack Ramsey, NRR
(301) 492-1167

Attachment 1: Possible Recipients of Class 1E Components from PMS

Attachment 2: List of Recently Issued NRC Bulletins

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Attachment 1

POSSIBLE RECIPIENTS OF CLASS 1E COMPONENTS FROM PMS

<u>Purchaser</u>	<u>Facility</u>
Bechtel Power	SNUPPS Project
Boston Edison	Pilgrim 1
Commonwealth Edison	Byron 1 & 2
Commonwealth Edison	Dresden 2 & 3
Commonwealth Edison	LaSalle
Commonwealth Edison	Zion
Connecticut Yankee Power	Haddam Neck
Consolidated Edison	Indian Point 2
Florida Power & Light	St. Lucie
Florida Power & Light	Turkey Point
Florida Power Corp.	Crystal River
Illinois Power	Clinton
Kansas Gas & Electric	Wolf Creek
Long Island Lighting	Shoreham
Maine Yankee Power	Maine Yankee
Mississippi Power & Light	Grand Gulf
Niagara Mohawk Power Corp.	Nine Mile Point
Northeast Nuclear Energy	Millstone
Omaha Service Co.	Ft. Calhoun
Pacific Gas & Electric	Diablo Canyon
Power Authority of the State of NY	Fitzpatrick
Power Authority of the State of NY	Indian Point 3
Public Service Electric and Gas	Hope Creek
Public Service Electric and Gas	Salem
Public Service of New Hampshire	Seabrook
Sacramento Municipal Utility District	Rancho Seco
Tennessee Valley Authority	Bellefonte
Tennessee Valley Authority	Browns Ferry
Tennessee Valley Authority	Sequoyah
Tennessee Valley Authority	Watts Bar
Vermont Yankee Power	Vermont Yankee
Virginia Electric Power	Surry
Wisconsin Public Service	Kewaunee
Yankee Atomic Electric	Yankee Rowe

NUMARC MEETING

7/12/88

Name	Affiliation Dept
Brian Grimes	NRC/NRR/DRIS
Charles F. Rossi	NRC/NRR/DOEA
Ashok Thadani	NRC/NRR/DEST
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FAUST ROSA	NRC/NRR/DEST/SELB
JAMES E. KNIGHT	NRC/NRR/DEST/SELB
Joseph DeMedio	NRC/GPA/OA
Lynn Connor	Doc-Search Associates 339-6553
CHARLES BRINKMAN	COMBUSTION ENGINEERING 6525742
Bob Borsum	BASCOCK + WILCOX 2302100
Bob Newlin	NRC GPA/OA
Steve Salmon	NRC SLTP/GPA X20365
Elizabeth Ben	Bishop, Cook, Pucell + Reynolds 371-3900
DAVID B. MATTHEWS	NRC/NRR/DRP
GOZ LAINAS	NRC/NRR/DRP
Barbara Dalrymple	NRC/NRR/PMA5
D.R. MULLER	NRR/PO III-2
PAUL SHERANSKI	NRR/PO III-2
Jim Stone	NRR/DRIS
KEN ECCLESTON	NRR/DRP
W. HUTCHISON	O I

NAME	Affiliation	Phone #
Ed Baker	NRR/VIB	492-3721
Brian Grimes	NRR/DRIS	
Lang Ah	NRR/DEST	
Russ Bell	NUMARC	572-1280
ALEX MARION	NUMARC	872-1280
BILL RASIN	NUMARC	872-1280
TIA MARTIN	NRC/NRR/AOT	492-1284
Steven R Stein	NRR/DRIS	492-0977
Lang Shao	NRR	
Ed Baker	NRR/DEST/VIB	

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L. Shao	8-E-2
E. Brach	4-E-4
F. Rosa	8-D-20
K. Naidu	9-D-4
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D. Brinkman	12-D-20
R. Newlin	2-G-5
S. Salomon	3-D-23
D. Muller	13-D-1
P. Shemanski	13-D-1
K. Eccleston	14-H-3
W. Hutchison	3-E-4
F. Baker	9-D-4 <i>vidi's</i>
S. Stein	9-A-1
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