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SUBJECT: Part 21 rept re deviation in connection with certain 200
 OHM duplex resistance temperature detectors on 990125.

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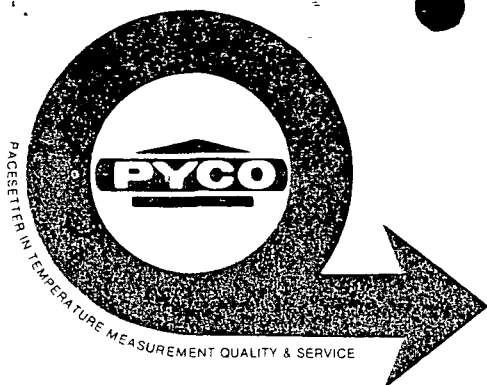
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215-757-3704

DATE : February 25, 1999 (Revised February 26, 1999) EVENT # 35406

TO : NRC OPERATIONS
Tel: 301-816-5100 Fax: 301-816-5151

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington DC 20555

Carolina Power & Light
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Robinson Plant
Highway 151 & SC 23
Hartsville SC 29550
Tel: 919-546-4286 Fax: 919-546-6750

* 2-26-99

Carolina Power & Light
Attn: Joe Hill - Acting Mgr. for Purchasing
Brunswick Steam Electric Plant
NC Highway 87 North
Southport, NC 28461
Tel: 919-546-4286 Fax: 919-546-6750

* 2-26-99

South Carolina Electric & Gas
Attn: John Parler - Supvr. Over Procurement Quality
V.C. Summer Station
Highway 215
Jenkinsville, SC 29065
Tel: 803-345-4318 Fax: 803-345-4270

FROM: PYCO Inc.
Mr. John V. Metzger Jr. - President & CEO
600 E. Lincoln Hwy.
Penndel, PA 19047
Tel: 215-757-3704 Fax: 215-757-3780

Re : 10 CFR PART 21 - Notification of Deviation

9903100198 990226
PDR ADOCK 05000261
S PDR

IE19



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As required by 10CFR Part 21, the following information is to provide notification of deviation in connection with certain 200 OHM duplex Resistance Temperature Detectors (RTD's) supplied to Carolina Power & Light - Robinson Plant and Brunswick Plant and South Carolina Electric & Gas - V.C. Summer Station:

1. Name and Address of individual informing Commission:

Mr. John V. Metzger Jr. - President & CEO - PYCO Inc.
600 E. Lincoln Hwy.
Penndel, PA 19047

2. Basic Component Supplied:

- . 200 OHM duplex Resistance Temperature Detector (RTD) Assemblies
- . PYCO Part Numbers/Customer Part Numbers - See Attachment A
- . Customer Purchase Order (PO) - See Attachment A
- . PYCO Serial Numbers (S/N) - See Attachment A
- . PYCO Shop Order (SO) - See Attachment A

3. Identification of the Firm supplying the basic component

PYCO Inc.
600 E. Lincoln Hwy.
Penndel, PA 19047



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4. Nature of Deviation

A deviation has been detected that a limited number of 200 OHM DUPLEX RTD assemblies have been fabricated by PYCO using THIN-FILM RTD sensors instead of the WIRE-WOUND RTD sensors specified for the assembly.

RTD assemblies fabricated using wire-wound sensors have been tested and qualified by PYCO for nuclear use under our nuclear qualification test program. RTD assemblies fabricated using thin-film sensors have not been tested by PYCO to IEEE-323 and IEEE-344 requirements.

Externally thin-film and wire-wound RTD's have the same physical appearance, shape and electrical characteristics. Both the wire-wound and thin-film sensors meet the requirements of the International Industrial Standard IEC-751, "Industrial Platinum Resistance Thermometer Sensors".

5. Date Detected:

January 25, 1999 - Completion of Engineering Evaluation

Based on a query from our Purchasing Department to our supplier, it was identified that 200 OHM duplex Thin-Film RTD's were supplied for an open Purchase Order.

PYCO utilizes WIRE-WOUND RTD's for Nuclear use. Our Purchasing Department notified our Quality Assurance Department.

Quality requested an evaluation of the acceptability of the Thin-Film RTD's for nuclear use. The research was completed by our Engineering Department. PYCO High Reliability RTD's were qualified for nuclear applications through type testing in accordance with our nuclear qualification test program. All RTD assemblies qualified by the tests were fabricated using wire-wound RTD sensors. Thin-Film RTD assemblies have not been tested by PYCO in our nuclear qualification test program to equipment qualifications as defined in IEEE-323 and IEEE-344, therefore Engineering finds the Thin-Film RTD sensors unacceptable for use in fabrication of Nuclear RTD assemblies at PYCO.



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6. Location of Components:

A. Known locations of nonconforming assemblies:

1. Carolina Power & Light
H B Robins Steam Plant
Highway 151 and SC 23
Hartsville, SC 29550
2. Carolina Power & Light
Brunswick Steam Electric Plant
NC Highway 87 North
Southport, NC 28461

B. Potential locations of nonconforming assemblies :

1. South Carolina Electric & Gas
V.C. Summer Station
Highway 215
Jenkinsville, SC 29065

7. Corrective Action:

- A. Identify 200 OHM Duplex RTD assemblies supplied to nuclear utilities
Activity Completed 02/04/99
Completed review of Nuclear QA Documents for all projects
Attachment A identifies the "Known and Potential" assemblies
using the Thin-Film 200 OHM duplex RTD sensor.
- B. Review PYCO Purchase Orders to supplier and identify PO's with thin-film
RTD's by supplier part numbers.
Completed 01/27/99
- C. Notify nuclear utilities affected by the deviation.
- D. Contact nuclear utilities to identify existing status (stock, in-service, out-
of-service) of PYCO assemblies supplied with a 200 OHM Duplex RTD.



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- E. Generate a checklist to track replacement of nuclear utility stock and in-service 200 OHM duplex RTD elements manufactured by PYCO as identified in Attachment A.
- F. Review all applicable PYCO procedures for RTD sensors in connection with procurement, receiving and manufacturing.
- G. Generate Sales Orders for replacement of customer identified in-stock and in-service 200 ohm duplex RTD elements manufactured by PYCO as identified in Attachment A.

8. Advise Related to Deviation:

- A. The deviation identified is limited only to 200 OHM duplex RTD assemblies as identified in Attachment A, KEY-A. Assemblies identified in Attachment A, KEY-B indicate that a potential exists that the 200 OHM duplex RTD sensors used in the fabrication of the assemblies may be thin-film rather than wire-wound.
- B. All other RTD assemblies fabricated by PYCO, including 100 OHM platinum simplex and duplex RTD's, meet the requirements of IEEE-323 and IEEE-344.
- C. As per manufacturer's documentation, both the wire-wound and thin-film RTD sensors meet the requirements of International Industrial Standard IEC-751, "Industrial Platinum Resistance Thermometer Sensors".

Sincerely,

John V. Metzger Jr. - President & CEO
PYCO Inc.

Attachment

KEY	PYCO SO#	CUST PO#	SHIP DATE	PYCO PART NUMBER	QTY	S/N or Tag#
CAROLINA POWER AND LIGHT - ROBINSON PLANT - Cust P/N 728-733-00						
A	068780-00	8N103CM	08/08/97	122-4049-6-8	1	S/N 15770
A	062674-00	8F6855CC	10/11/95	122-4049-6-8	1	S/N 15148
B	057436-00	7M0012CC	03/31/94	122-4049-6-8	1	S/N 14749
B	056873-00	7K6017CC	01/26/94	122-4049-6-8	1	S/N 14685
B	056508-00	7K5775CC	11/01/93	122-4049-6-8	2	S/N 14661, 14662
B	038668-00	616007CC	05/30/89	122-4049-6-8	1	S/N 13495
B	037531-00	605637CC	01/13/89	122-4049-6-8	3	S/N 13358, 13359, 13360
B	023175-00	HBR-12065	10/30/85	122-4049-6-8	5	S/N 11840 TAG# TE-423 S/N 11841 TAG# TE-433 SN 11842 TAG# TE-410 S/N 11851 TAG# TE-420 S/N 11844 TAG# TE-430
CAROLINA POWER AND LIGHT - BRUNSWICK PLANT - Cust P/N 738-841-24						
A	70024-00	8P5516CM	11/10/97	122-1021-(08)-12.0	2	S/N 15831, 15832
A	53301-00	7D0864CC	02/23/93	122-1021-(08)-12	20	S/N 14502 THRU 14521

KEY	PYCO SO#	CUST PO#	SHIP DATE	PYCO PART NUMBER	QTY	S/N or Tag#
SOUTH CAROLINA ELECT & GAS - V.C. SUMMER STATION						
B	002805-00	SN-10231-SR	10/01/80	122-3006	9	TAG# TE410 S/N 7404, TAG# TE423 S/N 7405, TAG# SPARE S/N 7406, TAG# TE420 S/N 7407, TAG# TE433 S/N 7408, TAG# TE413 S/N 7409, TAG# SPARE S/N 7410, TAG# TE430 S/N 7411, TAG# SPARE S/N 7412
B	010380-00	Q312667	07/30/82	122-3006-04-12-B-240	6	TAG# 1TE410, 413, 420, 423, 430, 433 S/N 9545, 9546, 9547, 9548, 9549, 9550
B	012142-00	Q-326094	02/24/83	122-3006-04-12-B-240	6	TAG# 1TE410, 413, 420, 423, 430, 433 S/N 10089, 10090, 10093, 10095, 10096, 10097
B	012142-01	Q-326094	03/22/83	122-3006-04-12-B-240	6	TAG# 1TE410 S/N 10087 TAG# 1TE410 S/N 10088 TAG# 1TE420 S/N 10091 TAG# 1TE420 S/N 10092 TAG# 1TE423 S/N 10094 TAG# 1TE433 S/N 10098
B	021225-00	A390598	06/24/85	122-3006-04-12-B-240	6	TAG# 1TE-0410 S/N 11706, 11707, 11708, 11709, 11710, 11711