

# CATEGORY 1

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SUBJECT: Part 21 rept re corrective action & closeout of 10CFR21 rept  
 of noncompliance re unacceptable part for 30-4 connector.  
 Unacceptable parts removed from stock & scrapped.

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## Radiation Measurements



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Cleveland OH 44139  
Phone: 440 248-9300  
FAX: 440-349-2307  
www.inovision.com

U.S. Nuclear Regulatory Commission  
Document Control Center  
Washington, D.C. 20555  
FAX 301.816.5151

September 23, 1999

Reference: 1. 10CFR21 Report of Noncompliance dated August 27, 1999  
Component part 30-4, BNC Connector  
2. Notification to Rochester Gas and Electric

Subject: Corrective Action and Close-out, 10CFR21 Report of Noncompliance  
Inovision Component part 30-4

### To Whom It May Concern:

Further to our notification dated August 27, 1999, this letter has been prepared to provide formal notification of the corrective action performed and to close out the subject 10CFR21 Report of Noncompliance.

General Description: (from Technical Abstract: 30-4 BNC Connector Application and Usage by David P. Warner, Reliability Engineer, Inovision RMD dated August 26, 1999.)

The Inovision part 30-4 connector is a male, non-crimp type BNC plug intended for the termination of RG-58/U coaxial cable. The military type designation for these connectors is UG-88/U. Amphenol part number 31-2 or AMP part number 221552-1 connectors may be provided under the 30-4 Inovision part number.

The 30-4 connector is provided as a sub-component of the 942-100-4 or 942A-100-4 field termination connector kits. These kits are provided with every 956/956A and 942/942A series of digital ratemeters when the ratemeters are purchased as a spare or replacement independent of a factory prewired monitoring channel. The instruction manuals provided with the 942 and 956 series ratemeters contain connector manufacturer assembly instructions as part of the vendor data section of the manual. Additionally, the 30-4 may be incorporated into a variety of factory-assembled test and operational signal cable assemblies. These cable assemblies then become sub-assemblies in 960 SRD or 960 LCU, 942WM and other commercial and safety related monitors or displays.

The intended use of these connectors is to provide a removable termination for low voltage pulse mode or low current signals generated by radiation detectors. Connection points are typically the rear panel of single channel ratemeters, 960SF series scaler cards or internal to local enclosures such as NEMA 4 rated junction boxes.

In June, 1999, information became available that indicated that Inovision (nee Victoreen, Inc.) may have accepted an unacceptable part for the 30-4 connector. The approved parts for Inovision part number 30-4 are Amphenol #31-2 and AMP 221552-1. The connectors in stock were re-inspected and verified to be AMP part number 1-221265. Although recommended by the manufacturer as suitable for use with RG-58/U cable, our testing indicated that the cable retention properties of the AMP 1-221265 were less than the approved parts. There have been no adverse reports from the field.

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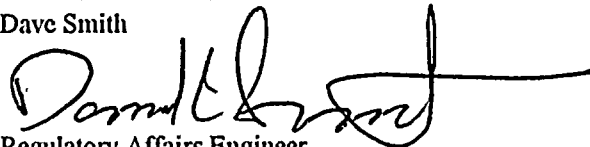
**Inovision Corrective Action (Complete):**

The unacceptable parts were removed from stock and scrapped. An investigation on part usage since January, 1997 (the date that the unacceptable part was received into stock) indicated that four (4) unacceptable parts may have been procured on safety related purchase orders by Rochester Gas and Electric on two (2) sales orders.

Notification was made to Mr. Dave Lovgren RGE Quality Assurance by fax and Mr. Al Pitts, RGE Quality Assurance Engineer and Mr. Jeff Wyatt, RGE Purchasing by phone and certified mail. (re. attached)

Respectfully Submitted,

Dave Smith



Regulatory Affairs Engineer  
Inovision Radiation Measurements

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## Radiation Measurements



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To: Mr. Al Pitts, Mr. Dave Lovgren  
R.E. Ginna Nuclear Power Plant  
1503 Lake Road  
Ontario, NY 14519

September 17, 1999

### Part 21 Notification

Re: Your Purchase Order #'s 4500001432 and NQ15875AJW

It was recently determined that a shipment of BNC connectors were inadvertently accepted into stock as meeting the specification of Inovision part 30-4. The incorrect connector carries the marking designation 1-221265-0 AMP engraved on its base. This connector may have been supplied with items on the above purchase orders.

Use of the incorrect connector is not believed to pose an immediate serious risk. Our testing indicates that the incorrect connector has a reduced cable retention capacity. The incorrect connector also may not meet the qualifications established for use in nuclear facilities.

A quantity of correct connectors (marked xxxxx UG-88/U) are on order and expected within the next few days. Four connectors will be sent to you as replacements for those originally supplied on your purchase orders above. Three connectors will replace those supplied on PO 4500001432 and one connector will be sent to replace that supplied on PO NQ15875AJW. Please send your Purchase Order for replacement parts to Ms. Jane Zilka, 6045 Cochran Road, Solon, Ohio 44139 (or FAX 440-349-2307).

Thank you for your cooperation in this matter. Inovision Radiation Measurements appreciates your business and looks forward to serving your future needs.

Respectfully,

Dave Smith  
Regulatory Affairs

Cc Mr. Jeff Wyatt, RGE Procurement

