



George V. Voinovich
Governor

*Copy forward to
Kevin Kennedy, NMS
12/3/93 - AGH
DCD/DCB*

OHIO DEPARTMENT OF TRANSPORTATION

25 South Front Street
P.O. Box 899
Columbus, Ohio 43216-0899

34-05239-01

03005703

November 12, 1993

U.S. Nuclear Regulatory Commission
799 Roosevelt Rd
Glen Ellyn, IL 60137-5927
Attn: John Martin

Re: Reporting of defects or Noncompliance, License # 34-05239-01

Dear Mr. Martin,

This is to inform you and to document defective nuclear gauging equipment as required by 10CFR part 21.

On August 6, 1993 during routine use of a Troxler 3401 nuclear gauging device, the tip of the source rod containing 8 millicuries of Cesium 137 fell off. After extensive investigation it was determined that the operator of the gauge was not at fault. It was also determined that the only logical explanation would be a physical breaking of the weld securing the encapsulated source to the gauge probe.

The manufacturer was contacted to inquire if any other incidents similar to ours had happened before. Troxler was not aware of any. At that time we decided to examine all other similar model gauges that we possessed. The results of the examination are attached. After completing the examinations it was decided to discontinue the use of all Troxler 3401 gauges. These gauges are now in storage awaiting disposal. The intent is to dispose of the sources with the manufacturer when new gauges are purchased. The new gauges are scheduled to be purchased around the first quarter of 1994.

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If you have any questions concerning this matter, please contact
Jeff Thurston at (614) 466-9743.

Respectively,

Nancy Fisher
Nancy Fisher, Administrator
Health, Safety and Claims

Jeff Thurston
Jeff Thurston,
Radiation Safety Officer

NF:JT

C: Kris Dix
Ron Gary

inter-office communication

to: Jeff Thurston, ODOT R.S.O. date: August 13, 1993
from: Bob Martindill, Equipment Maintenance Superintendent 2
subject: Condition of 3401 Moisture/Density Gauges

As per instructions from Jeff Thurston, ODOT R.S.O. and due to an incident which occurred with gauge 12711 on August 3, 1993, an inspection of all 3401 model gauges was necessary.

The results were as follows:

<u>Gauge #</u>	<u>Status</u>
12711	Broken source rod
12713	Weld worn slightly
12706	Weld worn slightly
12712	Rod cracked
12710	Weld worn and possibly cracked
12715	Rod cracked in 1988 - was repaired, now OK
10234	OK
12704	OK
12716	OK - but worn at weld
12708	OK - but worn at weld
12714	OK
12707	Small hole in source rod - looked like it was filed or ground
12705	Looked like it was filed or ground
12717	OK

BM
BM:rtg

c: Dennis Bunke
Ron Gary
File

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