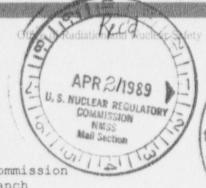
RETURN TO 306-33

70-920 PDR







April 12, 1989

Mr. W. Scott Pennington
U.S. Nuclear Regulatory Commission
Uranium Fuel Licensing Branch
Division of Fuel Cycle and Nuclear Safety
Washington, D.C. 20555

Reference: SNM-910

Subject: Additional information to Rensselaer's request for amendment dated

February 22, 1989

Gentlemen:

Enclosed please find 6 copies of Figure 1, Spert Fuel Pin and 6 copies of a Rensselaer memo listing the fission chambers that will be used with the Fuel Assembly For Fissile Assay (FAFFA) described in the February 22, 1989 request for amendment.

Sincerely,

Robert M. Ryan

Director

Office of Radiation and Nuclear Safety

RMR/sms

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25443

Rensselaer Polytechnic Institute • Troy, New York 12180-3599 • (518) 276-4014/4015

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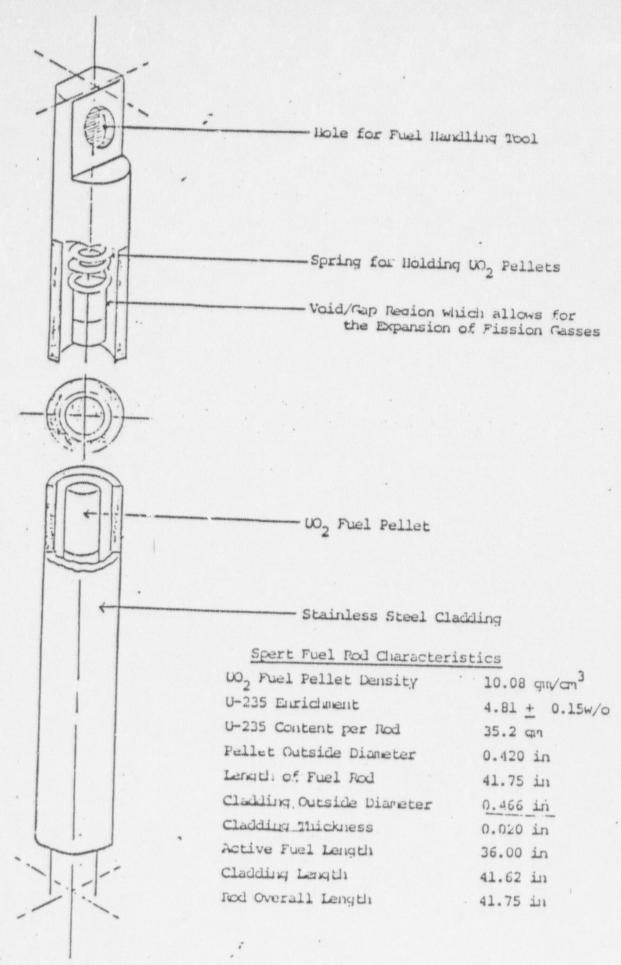


Figure 4.7 SPERT FUEL PIN

FIGURE 1.



Department of Nuclear Engineering & Engineering Physics

MEMORANDUM

TO:

R. Ryan

F. Rodriguez-Vera

DATE:

FROM:

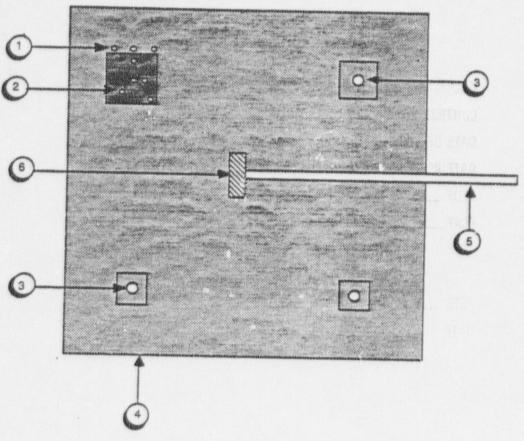
April 12, 1989

Per your request this morning regarding information about fission chambers to be used along with the Fuel Assembly For Fissile Assay (FAFFA), for the "Fissile Assay of Spert Fuel Using Slowing-Down-Time Device" project, the following should be stated.

- A. We have 17 fission chambers that we intend to use at several configurations around the FAFFA, when placed inside of the lead spectrometer. However we do not plan to use all 17 chambers at the same time. A typical arrangement would be as that shown in Fig. 2.2 "Lead Spectrometer Arrangement" of E. Vanterpool's PhD thesis (enclosed).
- B. The type, serial number, fissile/fertile material, and amount for each chamber is given as follows.

1. WX32504-743501	0.36 gr Th-232
2. WX32504-771302	0.36 gr Th-232
3. WX32504-771303	0.36 gr Th-232
4. WX32504-771304	0.36 gr Th-232
5. WX32504-771305	0.36 gr Th-232
6. WX32504-823901	0.36 gr Th-232
7. WX32504-823903	0.36 gr Th-232
8. WX32604-743504	0.36 gr U-238
9. RS-P6-0805-157-P5426	132.8 mg U-238
10. RS-P6-0805-157-P5427	132.8 mg U-238
11. RS-P6-0805-157-P5430	132.8 mg U-238
12. RSN-34A-M7-F2198	149 mg U-238
13. FC4/U233/300; SK289	0.3 m T U-233
14. FC4/300/PU239; SL638	0.3 mg PU-239
15. FC4/1000/U235; Tk34	7.0 mg U-235
16. FC4/1000/U235; TK-35	7 mg U-235
17. SG1807	0.3 mg PU-239

Fuel Assay Fission Chambers - 1
Fuel Assay Test Assembly - 2
Flux Monitor Fission Chamber - 3



Lead Spectrometer - 4 LINAC Drift Tube - 5

Target - 6

Figure 2.2 Lead Spectrometer Arrangement

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NMSS MAIL SECTION

DOCKET CLERK

April 12, 1989

Mail Section Mr. W. Scott Pennington U.S. Nuclear Regulatory Commission Uranium Fuel Licensing Branch Division of Fuel Cycle and Nuclear Safety Washington, D.C. 20555

Reference: SNM-910

Subject: Additional information to Rensselaer's request for amendment dated

APR 2/1989

U. S. NUCLEAR REGULATORY

DOMMISSION NWSS

February 22, 1989

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Robert M. Ryan

Director

Office of Radiation and Nuclear Safety

RMR/sms

25443 -

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added up

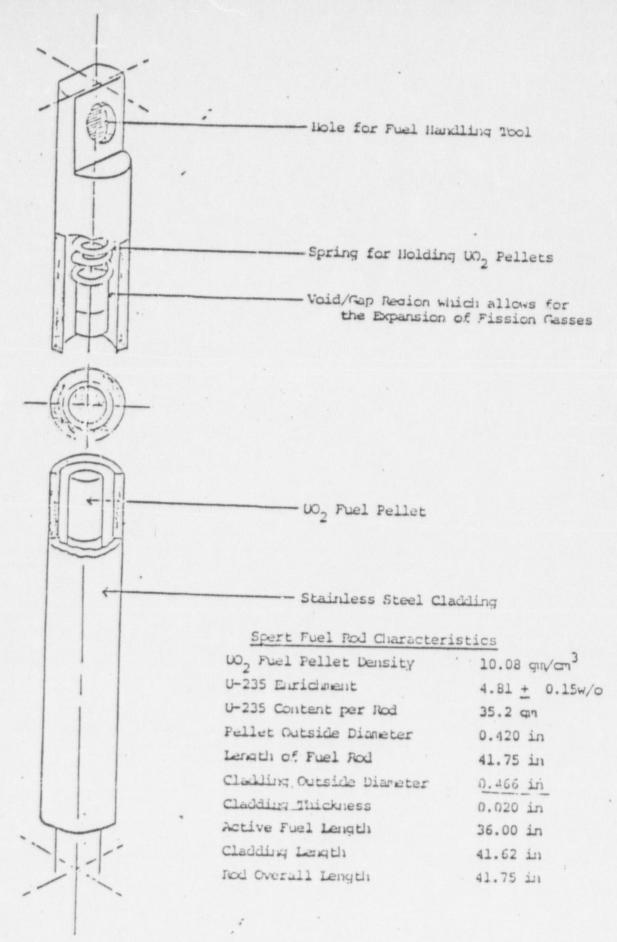


Figure 4.7 SPERT FUEL PIN

FIGURE 1.



MEMORANDUM

TO:

R. Ryan /

FROM:

F. Rodriguez-Vera

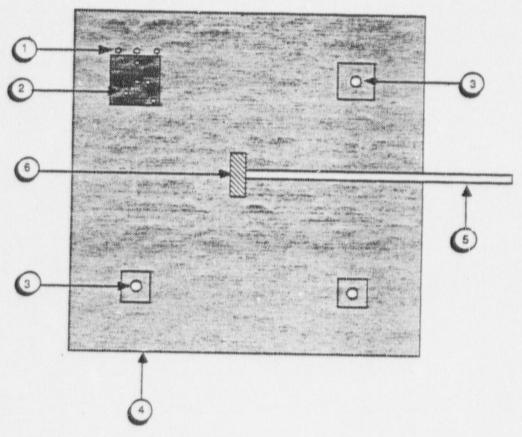
DATE:

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Lead Spectrometer - 4
LINAC Drift Tube - 5
Target - 6

Figure 2.2 Lead Spectrometer Arrangement

DOCKET NO. 70-920

CONTROL NO. 25443

DATE OF DOC. April 12, 1989

DATE ROVD. April 12, 1989

FOUT PDR

I&E REF.

SAFEGUARDS POTHER

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