

**From:** Bennett, Marvin [Marvin.Bennett@em.doe.gov]  
**Sent:** Tuesday, April 06, 2010 4:00 PM  
**To:** Sampson, Michele; Hardin, Kimberly; Benner, Eric; Staab, Christopher; Saverot, Pierre  
**Cc:** Shuler, James  
**Subject:** FW: Request for Conference Call to discuss University Fuel Shipping Options

Please see the request below. The current revision of 9330 shows Pierre Saverot as the technical lead. I need to work with NRC to set up a time for this call. Who should I be talking with at NRC to arrange this call?

Marvin Bennett  
Docket Manager DOE PCP  
(301) 540-2630

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**From:** Craig R Tyler [mailto:Craig.Tyler@inl.gov]  
**Sent:** Tuesday, April 06, 2010 3:24 PM  
**To:** Shuler, James  
**Cc:** Bennett, Marvin; Douglas K Morrell; Paul J Sentierj; Donald C Darrington; Daniel B McDonald; James R Wade  
**Subject:** RE: Request for Conference Call to discuss University Fuel Shipping Options

Dr. Shuler: Your support is requested in setting up a telephone conference with the NRC for the following:

The Idaho National Laboratory's (INL) Research Reactor Infrastructure Program, an ongoing DOE-operated university fuels assistance program, would like to provide notice and discuss plans to request a one-time exemption to ship eight fresh fuel elements from the fabricator, B&W in Lynchburg, VA to the University of Rhode Island using the ATR Fresh Fuel Shipping Container, Docket 71-9330. It is planned to use the following parameters as justification:

1. Program basis: This effort is in support of the DOE-operated university fuel assistance program schedule requirements. The INL has recently contracted with AREVA Federal Services to prepare an amendment for this payload, as well as other small quantity payloads. However, amendment preparation is just beginning and program plans will require a shipment in July 2010.
2. Type of Fuel: Unirradiated (fresh) LEU Aluminide/Silicide plate fuel similar to authorized HEU (fresh) aluminide plate fuels.
3. Enrichment: 19.75%
4. Maximum Fissile Quantity: 283 g U-235
5. Enveloping element dimensions:

6. Technical Basis: Comparative, in nature. Each element is bounded by ATR, ATR loose plate, MURR, and MIT payloads, which are evaluated for 1,200, 600, 785, and 515 g HEU, respectively. An empty package with sheets of aluminum will be used as dunnage for the one time shipment of the Rhode Island elements. A sketch will be provided for this arrangement with a (primarily) qualitative criticality evaluation with a supporting calculation demonstrating that the 283g LEU payload is bounded by the existing SAR for this small quantity payload under any payload condition. The CSI for the loose plate evaluation will be used for the shipment(s). The shipment(s) will be made via dedicated conveyance directly from the point of origin to the destination.

A suggested date and time (Alternate dates and times acceptable, except for Friday April 9. A call in number can be provided by the INL)

Thursday, April 8, 2010

Time: 12:30 PM MDT, 2:30 PM EDT

Call in number: 208-526-5002, or 1-800-414-2147, DN: 65002

Craig Tyler  
Irradiation Test Programs  
Idaho National Laboratory  
208-526-1423

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### E-mail Properties

Mail Envelope Properties (B60DA5E92DB0314C826BA490AA0A93B611A7EF6696)

Subject: FW: Request for Conference Call to discuss University Fuel Shipping Options  
Sent Date: 4/6/2010 3:59:44 PM  
Received Date: 4/6/2010 3:59:44 PM  
From: Bennett, Marvin

Created By: Marvin.Bennett@em.doe.gov

Recipients:

Michele.Sampson@nrc.gov (Sampson, Michele)  
Tracking Status: None  
Kimberly.Hardin@nrc.gov (Hardin, Kimberly)  
Tracking Status: None  
Eric.Benner@nrc.gov (Benner, Eric)  
Tracking Status: None  
Christopher.Staab@nrc.gov (Staab, Christopher)  
Tracking Status: None  
Pierre.Saverot@nrc.gov (Saverot, Pierre)  
Tracking Status: None  
James.Shuler@em.doe.gov (Shuler, James)  
Tracking Status: None

Post Office:

ESCE-EVS-02.doe.local

Files	Size	Date & Time
MESSAGE	13124	4/6/2010

Options

Expiration Date:

Priority: o!ImportanceNormal

ReplyRequested: False

Return Notification: False

Sensitivity: o!Normal

Recipients received: