



Idaho National Laboratory

# ***Traceable Records for DOE SNF***

***NSNFP Strategy Meeting***

***Bill Hurt***

***January 2007***

# SNF Traceability Background

- **DOE has wide variety of SNF with diverse background and documentation**
- **Spent Fuel Database (SFD) provides a central source of data for national-level planning, management, and licensing of DOE SNF**
- **SFD Version 5.0.1 provided basis for LA input**
- **Sites responsible for providing DOE SNF data for transportation and disposal**
- **Enhancement to SFD data traceability and transparency is in progress**

# SFD Traceability vs Transparency

- **Traceability and transparency as related to the SFD**
  - Traceability – the ability to trace the origin of the data using recorded documentation
  - Transparency – providing sufficient details that a technically qualified person can ensure adequacy without recourse to the originator of the data

# SFD Data Traceability and Transparency

- **Records are being reviewed and documented**
- **Process uses a graded approach:**
  - References/assumptions are provided for existing/new data in important fields
  - References/assumptions are only provided for new/revised data in less important fields
- **For nuclear material data, a spreadsheet providing individual fuel unit data is developed where data are available**
- **Spreadsheet provides the old value, new value, reference with specific location, and comments for each field**

# **SFD Data Traceability and Transparency (cont)**

- **Use best available information Appendix A, Fuel Receipt Criteria, Required Shipper's Data, technical reports, MC&A, letters, e-mails, spreadsheets, safety analyses**
- **Provide detailed reference to source data**
- **Document all assumptions and bases**
- **Investigate and resolve any discrepancies in data**
- **Compare totals to MC&A where available**
- **Changes and data entry independently reviewed**

# Significance of Traceability Effort

- **DOE's traceability of the DOE SNF data is enhanced, thereby providing great confidence in the SFD data**
- **There are some significant changes for a some records (e.g., changes in discharge dates)**
- **Global characteristics of DOE SNF is not being changed and the licensing basis remains valid**
- **Access to the basis for SFD data is greatly enhanced**

# Next Steps

- **How will acceptance of DOE wastes be controlled**
  - WASRD
  - Tech Specs
  - MOA equivalent to commercial standard contract
- **Data packages definition**
  - What is needed for Part 63 acceptance
  - What is needed for Part 71
- **Initial data package development**
  - MCOs would be a likely candidate