



Idaho National Laboratory

Spent Fuel Database (SFD) Status

***National Spent Nuclear
Fuel Program
Strategy Meeting***

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SFD Background

- **SFD provides a central source of DOE SNF data for national-level planning for management and licensing of DOE SNF**
- **SFD Version 5.0.1 provided basis for LA input**
- **Enhancement to data traceability and transparency determined to be warranted**
- **Software revisions necessary to support the traceability enhancement**

SFD Data Traceability and Transparency Enhancement Process

- **All records are being reviewed and documented in “change packages”**
- **Related records are reviewed together**
- **The 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**

SFD Data Traceability and Transparency Enhancement Process (continued)

- **Change packages are independently reviewed**
- **All data changes are logged by the software for each field of each record**
- **All data entries are verified**
- **The entire process is documented**

SFD Software Enhancements

- **Data change control to prevent unapproved changes**
- **Change package tracking to clearly identify the basis for data**
- **Screen changes and anomaly fixes will be implemented**
- **Impact assessment reports will be generated**

Schedule

- **Major software revisions are scheduled to be completed this FY**
- **A new version of SFD with roughly 100 record reviews will be issued early in FY-07**
- **All records will be reviewed over the next couple years**
- **Several revisions to the SFD are expected to be issued each year**

Future Enhancements

- **Potential SFD enhancements include:**
 - **Tracking individual handling units**
 - **Support for shipping and repository acceptance**
 - **Inclusion of HLW**