MFFFPEm Resource

From: Gwyn, Dealis W. [DWGwyn@moxproject.com]
Sent: Thursday, November 15, 2007 1:38 PM
To: David Tiktinsky
Subject: Slides - early draft
Attachments: ACNW WSB.ppt

Dave,

Attached is a first cut at slides. I've pulled info mainly from the FEIS and an internal project document (Waste Management Plan). There are items that I still need to verify, but hopefully this can help you determine if this is the type of info you want for your presentation.

You can call me this afternoon if you have questions. You could call me tomorrow on my cell phone, but it looks like I'm going to have to play golf at a new course (at least new to me).

Dealis

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MFFF Waste

Waste Sources

- High alpha activity waste stream
  - Liquid americium
  - Excess acid
  - Alkaline
- Stripped uranium stream
  - Less than 0.9 % uranium-235
- Low level liquid waste stream

Waste Generation Basis

- High alpha activity
  - Maximum expected volume
    - 33,000 L (8,800 gal) per year
    - Approximately 25 transfers per year
- Stripped uranium
  - Maximum expected volume
    - 174,600 L (46,000 gal) per year
    - Approximately 42 transfer per year
- Low level liquid
  - very low radioactive contamination or the potential for radioactive contamination

MFFF Waste Streams

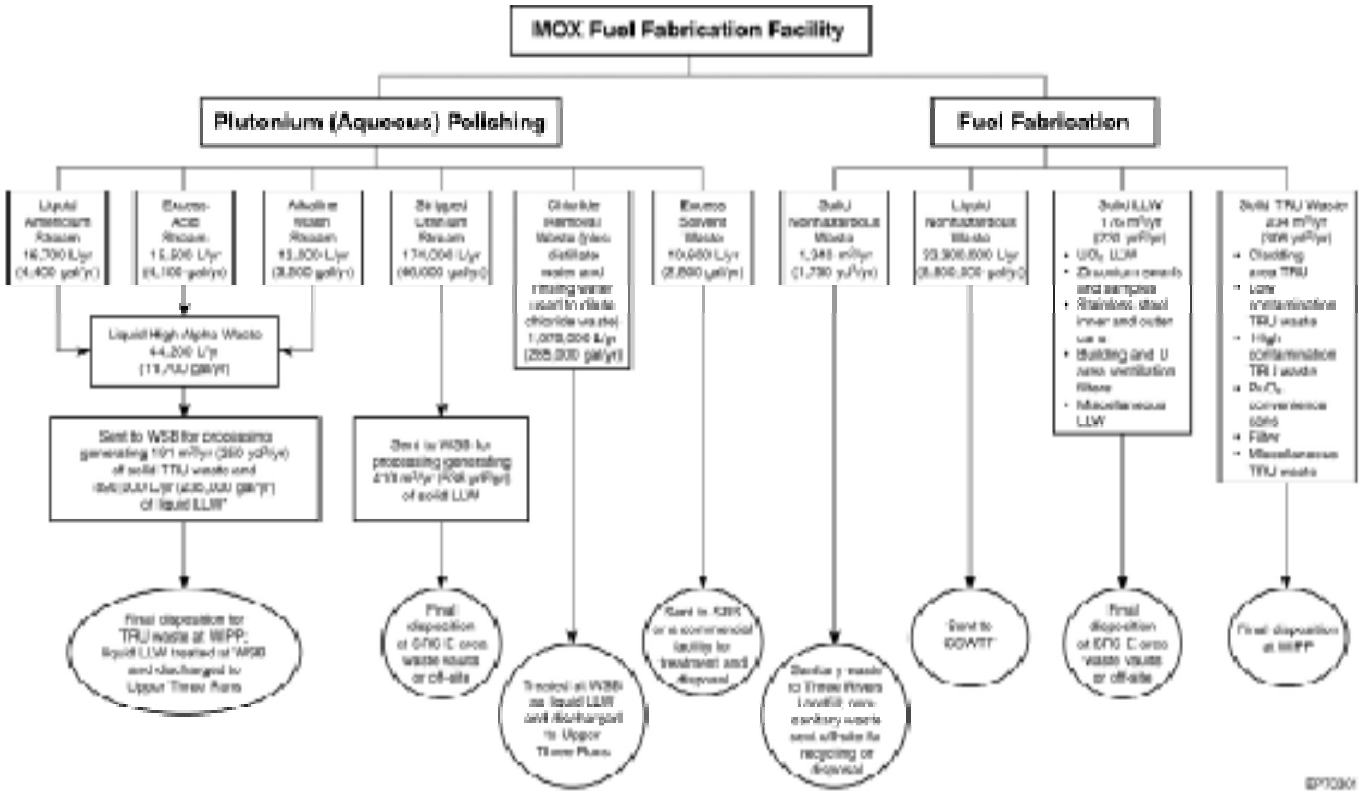

Figure 4.1. Waste streams generated by the proposed MOX facility (Source: Modified from DCS 2003a, 2004a).

Waste Holdup Capabilities

- High Alpha Waste Collection Tanks
  - 2 tanks
  - 10,500 liters each
  - 3 months capacity
  - Agitated or recirculation to mix tanks
- Stripped Uranium
  - 4 tanks
  - 11,000 liters each
  - 3 months capacity
  - Agitated or recirculation to mix tanks
- Low level liquid
  - very low radioactive contamination or the potential for radioactive contamination
  - 7 day capacity

Waste Transfer Lines

- Dedicated lines
  - Buried underground
  - Double walled stainless steel pipe
  - Item Relied on for Safety (IROFS)
  - Approximately 2000 feet
  - Leak detection system
  - Withstand seismic events and other applicable events

MOX Services – SRS Interface Control Documents

- Waste acceptance criteria
  - consistent with MOX waste streams
- Provides for notifications between MFFF and WSB management
- Waste sampled and analyzed prior to transfer

Unavailability of WSB

- Response no different than any difficulty in MFFF
  - Respond to event in a predefined manner per operating procedures
  - Resolve the event
- Potential impacts
  - Stop transfer of waste
  - Store waste in holding tanks
  - Suspend waste generating operations
  - Maintain facility in safe condition until issue resolved
    - Potential events evaluated in Integrated Safety Analysis
    - Agitators and/or recirculation capability provided to ensure mixing of tank contents
- WSB procedures will provide for contingencies for any facility disruptions

Waste Solidification Building Status

- DOE Critical Decision (CD) – 2 (procurement) and 3 (construction) in 2008
- Plan to start construction in xxxx
- Construction schedule consistent MOX Services construction and startup schedules