Human Factors Engineering Implementation In The Transportation Program

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Agenda

- Overview
- Human Factors Engineering (HFE) Implementation via the MPC RFP
- Future Work
Overview

- Transportation System Human Factors Implementation Plan
- HFE implementation is accomplished by M&O and M&O subcontractors
- Subcontracted work is requested through RFPs
- Status of HFE work
  - Legal Weight Transportation System
  - MPC
MPC RFP

- Requires an HFE Specialist
- Tasks include
  - Conducting task and skill analysis
  - Identifying features that will increase safety and efficiency, decrease maintenance time
  - Providing design input
  - Reviewing and providing comments on equipment design
MPC RFP (Cont’d)

- Requires an HFE Report
  - Covers all components and systems
  - Describes how HFE principles are incorporated
  - Describes those features important to HFE
  - Documents the results of all HFE analyses
RFP HFE Requirements

- The RFP has specific HFE requirements for each of the three MPC subsystems
- Example HFE requirements are:
  - Provide for interchangeability of similar components for large and small casks
  - Design to preclude incorrect connections
  - Provide sufficient space for ease of operation, maintenance, and repair
Future Work

- Evaluation of HFE in MPC proposals
- Evaluation of MPC HFE work products