

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**