

2004 DOI Facilities and Asset Management Conference Condition Assessment Program Panel



Bureau of Reclamation – Asset Types and Numbers:

- Dams/Dikes (470+)
- Power Facilities (80+)
- Associated (Water) Facilities (300+)
- Recreation Sites (300+)
- Buildings (1500+)

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Current Replacement Value of Assets – Reserved Works

- Dams (\$36 B.)
- Power/Pumping Facilities (\$16 B.)
- Associated Facilities (\$9 B.)
- Recreation/F&W (\$3 B.)
- Buildings (\$1 B.)

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Condition Assessments – Water Facilities

- ❑ RO&M Program began in 1948 (70% asset value)
- ❑ 3 to 6 year field exam freq. by qualified team
- ❑ Promotes preventive maintenance philosophy
- ❑ Formal documented report w/recommendations
- ❑ Recommendations scheduled/tracked in a computerized database until completed
- ❑ Where applicable, included in MAXIMO

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Condition Assessments – Power Facilities

- ❑ Power O&M Review Program also began in 1948 (25% of asset value)
- ❑ Also promotes PM philosophy
- ❑ 3 to 6 year frequency by qualified personnel
- ❑ Formal documented reports; recommendations tracked in computerized database and within MAXIMO at most power facility sites

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Condition Assessment Ratings

- ❑ **FRR (Facility Reliability Ratings)** – water and power facilities (*considers maintenance, operations, and management factors*)
- ❑ **FCI (Facility Condition Index)** – buildings and recreation sites (*considers maintenance only*)

Reclamation's CA Program

- Consists of several facility-specific field review programs (dam safety, O&M, seismic safety, accessibility, life safety code, etc.)
- Continues to support Reclamation's primary mission to reliably deliver water and generate power



Reclamation's CA Schedule

- Water and Power Facilities – continue with reviews/inspections on a generally 3-yr frequency (as has been done for 50+ years)
- Buildings and Recreation Sites – complete preliminary CAs in FY 04 for all reserved works (and compute initial FCI values).



Reclamation's CA Schedule

- **Buildings and Recreation Sites**
 - In FY 05, begin 5-yr frequency CAs
 - Use developed checklists
 - Use in-house qualified staff
 - Track maintenance deficiencies in suitable database (in MAXIMO, if applicable)
 - Include in DM reporting
 - Update FCI values accordingly

