IBWC SAFETY OF DAMS PROGRAM

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International Boundary and Water Commission
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ibaWC SAFETY OF DAMS PROGRAM
 INTRODUCTION

WELCOME
► Lorena Soriano, Civil Engineer, O&M Division

OVERVIEW
► Safety of Dams Program
► Benefit of Dams
► IBWC Dams-DSAC Ratings & Hazard Potential Classifications
► IBWC Dams
IBWC SAFETY OF DAMS PROGRAM

- IBWC is unique – binational program
- National Dam Inspection Act of 1972
- IBWC conforms with the Act provisions
IBWC SAFETY OF DAMS PROGRAM


► U.S. Army Corps of Engineers (USACE) Safety of Dams - Policy and Procedures (2011)

► IBWC contracts the USACE for the Periodic Inspections (every 5 years)
BENEFITS OF DAMS

- Recreation
- Flood Control
- Water Storage (Fire & Farm Ponds)
- Irrigation
- Mine Tailings
- Electrical Generation
- Debris Control
- Navigation

Source: FEMA.gov
USACE Dam Safety Action Classification (DSAC) inspection rating for the dams:

- **DSAC I** – Very High Urgency
- **DSAC II** – High Urgency
- **DSAC III** – Moderate Urgency
- **DSAC IV** – Low Urgency
- **DSAC V** – Normal
USACE Hazard Potential Classification

- High – Direct Loss of Life of 1 or more
- Significant - Direct Loss of Life not expected
- Low - Direct Loss of Life not expected
IBWC Dams

► Morelos Diversion Dam - Algodones, Mexico

► Five Sediment Dams (Crow, Green Berenda, Jaralosa, Broad Canyon, & Sibley) - Hatch, New Mexico

► International Diversion Dam – El Paso, Texas

► American Diversion Dam - El Paso, Texas
IBWC Dams

- Amistad Dam - Del Rio, Texas
- Falcon Dam - Falcon Heights, Texas
- Anzalduas Diversion Dam – Mission, Texas
- Retamal Diversion Dam – Donna, Texas
MORELOS DAM

5 Year Inspection – November 2016

DSAC III (Moderate Urgency) - LOW HAZARD POTENTIAL
5 SEDIMENT DAMS

Annual Inspections - November 2018
AMERICAN AND INTERNATIONAL DAMS

5 Year Inspection - December 2016

American Dam

International Dam

DSAC III (Moderate Urgency) - LOW HAZARD POTENTIAL
AMISTAD DAM
5 Year Inspection - July 2017

DSAC II (High Urgency)-----HIGH HAZARD POTENTIAL
FALCON DAM
5 Year Inspection - July 2017

DSAC III (Moderate Urgency) - HIGH HAZARD POTENTIAL
ANZALDUAS DAM

5 Year Inspection – November 2017

DSAC IV (Low Urgency) - HIGH HAZARD POTENTIAL
INTERNATIONAL BOUNDARY AND WATER COMMISSION

UNITED STATES SECTION

RETAMAL DAM

5 Year Inspection – November 2017

DSAC III (Low Urgency) - SIGNIFICANT HAZARD POTENTIAL
QUESTIONS?