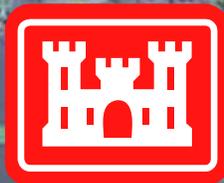


Lake Okeechobee Regulation Schedule Study



Pete Milam
U.S. Army Corps of Engineers
Jacksonville District



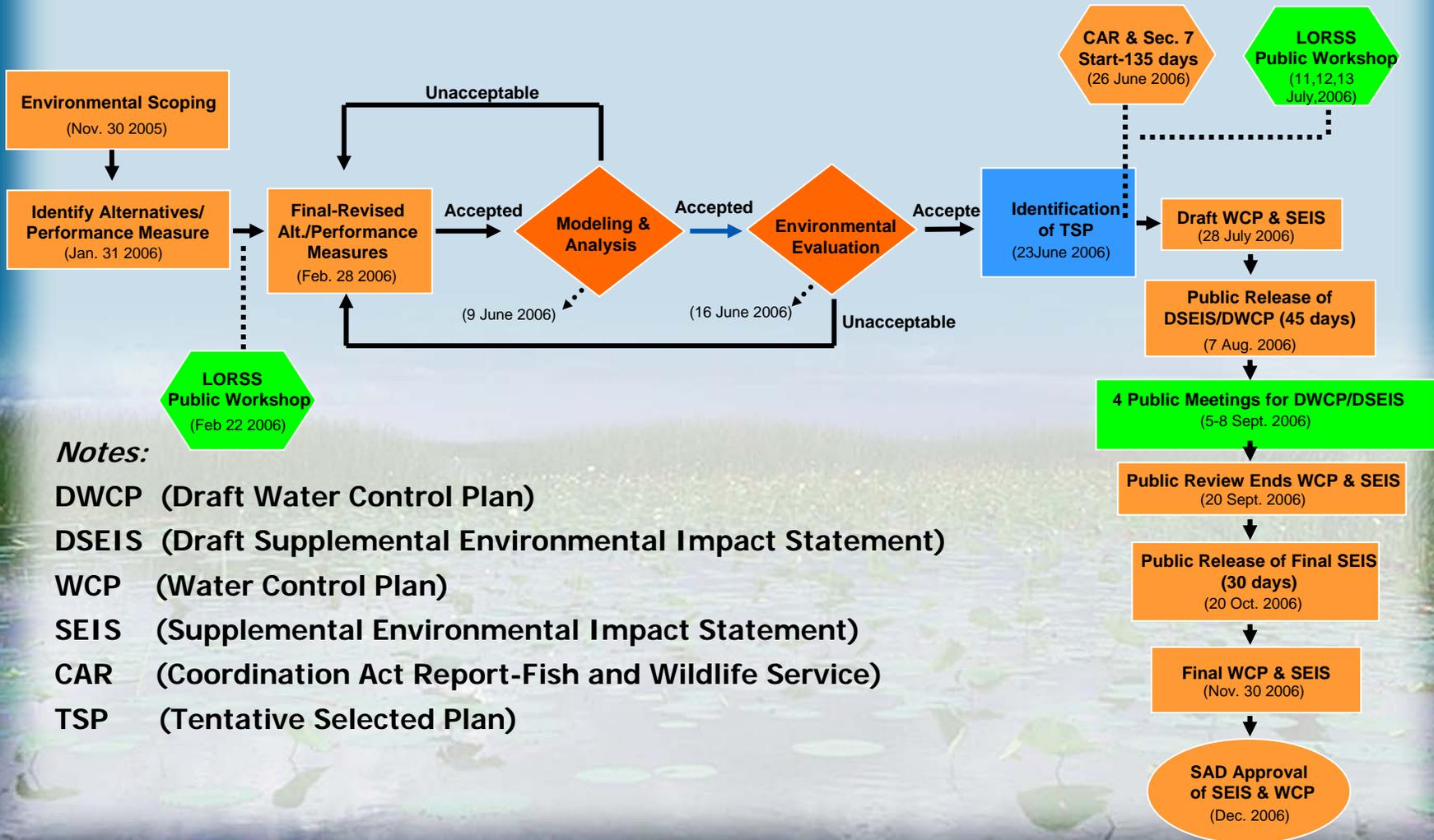
Study Goals & Objectives

- Implement a new Lake Regulation Schedule supported by a Supplemental Environmental Impact Statement by January 2007.

The objectives of the new regulation schedule are:

- Ensure public health and safety.
- Manage Lake Okeechobee at optimal lake levels to allow recovery of the Lake's environment and natural resources.
- Reduce high regulatory releases to the Caloosahatchee and St. Lucie estuaries so that the health of the estuaries are not compromised.
- Continue to provide flood control, water supply, navigation and recreation water resource needs.

Lake Okeechobee Regulation Schedule Study (LORSS) Process



Study Assumptions

- Existing condition: 2007
- Development of Operational Rules will consider years/ climate data not currently in model.
- Temporary Forward Pumps
- New schedule's anticipated period of use: 2007 to 2010
- Corps will initiate new Lake Okeechobee Regulation Schedule Study & EIS in 2007, to capture Acceler8 other CERP Band 1 projects and permanent forward pumps, scheduled for implementation in 2010

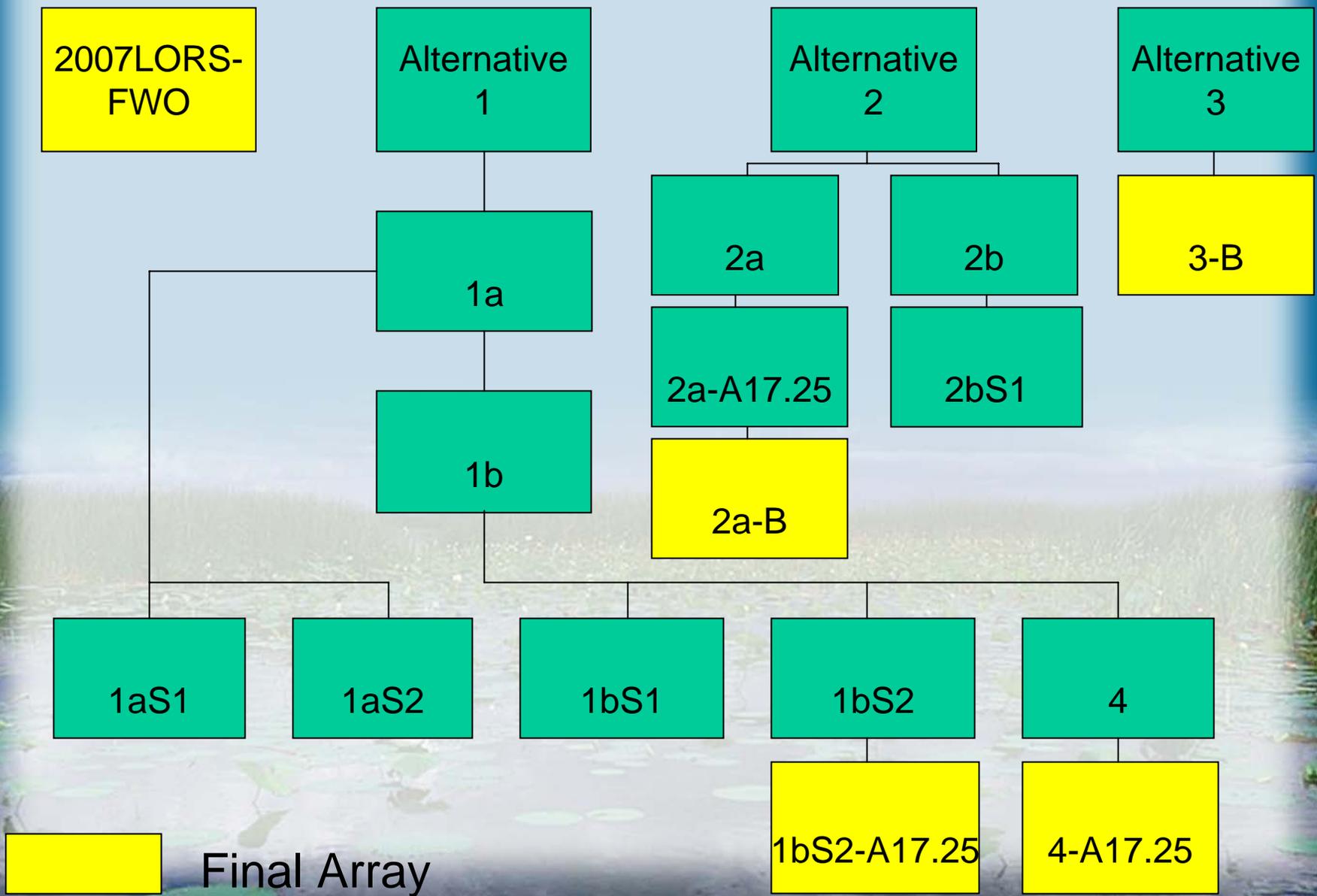
Study Constraints

- Model Period of Record (1965 – 2000) 36 Years.
- Existing Systems Conveyance Capacity.
- Stormwater Treatment Areas (STA) Water Quality Treatment Capacity (64,000 af / avg. annual)
- Existing Regulation Schedules for WCA and Kissimmee River Chain of Lakes.
- Herbert Hoover Dike Integrity (17.25 criteria for max. discharge)

Preliminary Performance Measure

- CERP-accepted performance measure targets including:
 - Caloosahatchee Estuary
 - St. Lucie Estuary
 - Lake Okeechobee
 - Water supply
 - Flood Control (public health & safety)
 - Navigation
 - Greater Everglades

Alternatives Analyzed



WSE - FWO

Same as current WSE Schedule with following revisions:

- Zones A & B modified to allow Max releases at 17.25 feet.
- Provide Environmental Base Flow releases to Caloosahatchee Estuary.
- SSM line lowered by 1.0 foot (as assumed for all alternatives).
- Assume Temporary Forward Pumps are included.
- STA 3/4 Treatment Constraint

Alt 1bS2-A17.25

- Provide quicker release response to high Lake inflows
- Reduce impacts by freshwater discharges to estuaries by reducing Zone B, C rate of flows to the St. Lucie Estuary
- Limit high water conditions in lake by lowering Zones A, B, C
- Address long term weather patterns
- Provides environmental base flows to Caloosahatchee Estuary.
- Has guidelines (Zones) to manage lake levels from 11.5 to 17.25 ft

Alt 2a-B

- Avoids strict decision tree
- Address lessons learned since initiation of WSE by avoiding repeating past temporary deviations.
- Provide quicker release response to high Lake inflows.
- Avoids continuous high lake levels
- Manage lake to avoid high discharges to estuaries
- Provides Base flow to Caloosahatchee estuary.
- Manage lake between 12.5 and 15.5 and below 17.25 ft.

Alt 3-B

- Previously developed as an alternative in the process of developing WSE(2000 EIS)
- Zones A & B modified to allow Max. releases at 17.25.
- Provide Environmental Base Flow releases to Caloosahatchee Estuary.

Alt 4-A17.25

- Provide quicker release response to high Lake inflows
- Limit high water conditions in lake by lowering Zones A, B, C
- Address long term weather patterns
- Provides environmental base flows to Caloosahatchee estuary.
- Minimum release in Zone C of 3250 cfs
- Minimum release in Zone D of 2330 cfs
- Has guidelines (Zones) to manage lake levels from 12.5 to 17.25 ft

Modeling Revisions

- All alternatives now include the 17.25 criteria for maximum discharge as a constraint.
- All alternatives will provide environmental base flow to the Caloosahatchee Estuary.

Public Coordination

- Next Public Information Workshops being scheduled for: 11, 12, & 13 July, 2006 in Clewiston, Stuart and Fort Myers.
- 45 Day Public comment period for Draft SEIS and WCP - 7 Aug. to 20 Sept. 2006.
- Four Regional Public Meetings for SEIS and WCP – 5 - 8 Sept. 2006 in Clewiston, Okeechobee, Stuart and Fort Myers.