

Modified Water Deliveries to Everglades National Park

Incremental Approach to the
Integrated Operational Plan for the
MWD and C-111SD Projects

February 4, 2015



G-3273/S-356 Field Test

- BLUF: Team on schedule with finalizing EA, Operational Strategy, Monitoring plan and Public Review
 - BACKGROUND: Schedule to complete tasks
 - Submit Test Authorization (NLT) 30 Jan
 - Public/Agency/State/SAD Review 04 Feb
 - Sign FONSI 6 May
 - Initiate Test 7 May*
- *Dependent on completion of S-356 repairs



Overview of Effort



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- Increment 1
 - Field Test of S-356, S-357N with G-3273 constraint raised
 - L-29 Canal maximum operating stage remains at 7.5 ft NGVD
 - Completing 8.5 SMA seepage canal and S-357N (design in progress) within test period will maximize opportunity for data collection and analysis
 - Completing C-111SD Contracts 8 and 9 will maximize opportunity for data collection and analysis (Cnt 8: July 2015 award – complete in FY17; Cnt 9: FY16 award – complete in FY17)

- Timeline
 - Testing commences – 3rd qtr 2015 (May)
 - Depends on completion of S-356 repairs
 - Will initiate when hydrologic conditions allow for relaxation of G-3273 above 6.8 ft NGVD consistent with the objectives of this field test



Overview of Effort

- Timeline - continued
 - Testing Complete – 3rd qtr 2017 (Apr) – Duration expected to be approximately 2 years dependent on weather conditions and other factors. May be extended in order to meet field test objectives.
- Outcome
 - Interim Operating Criteria – Dependent on ability to move forward with Increment 2



Overview of Effort

- Increment 2
 - Field Test of S-356 with G-3273 constraint, and L-29 Canal maximum operating stage raised up to 8.5 ft NGVD
 - Continued operation of 8.5 SMA S-357N
 - Use of C-111SD constructed features
 - Additional structures/components may be included
 - Dependent on acquisition of TTM RE Interests

- Outcome
 - Revisions to WCP (1st Increment)
 - Interim Operating Criteria



Overview of Effort

- Increment 3
 - Revise WCA/ENP/SDCS Water Control Plan (Vol. 4)
 - Includes: MWD features, C-111 South Dade (Contracts 8 and 9), WCA-3A Rainfall Plan updates, additional 2.6 miles of bridges on Tamiami Trail and raising of TTM roadway, eliminated or constrained Column 2 operations, etc.
 - Formulation efforts will be informed by information obtained from the Increment 1 and Increment 2 field tests.

- Outcome
 - Phased Implementation of operations



Overview of Effort

Key Dependencies

- Construction Dependent Milestones
 - 8.5 SMA Seepage Canal and S-357N Structure (Sep 2015)
 - C-111 South Dade Project - Contracts 8 and 9 (2016)

- Critical Path Dependencies
 - Hydrologic conditions consistent with the objectives of the field test
 - Complete Repairs to S-356
 - USACE Acquisition of real estate interests (Jan 2016)
 - DOI Acquisition of real estate interests (Jan 2021)
 - Cultural resources
 - Endangered species



Operational Strategy



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Objectives of Increment 1 Field Test

- A. Improve hydrological conditions in NESRS through the relaxation of the G-3273 stage criteria to increase water deliveries from WCA 3A to NESRS, while maintaining other C&SF Project authorized purposes.
- B. Use the S-356 pump station to return seepage to NESRS and manage seepage from NESRS to the L-31N Canal resulting from the relaxation of the G-3273 stage constraint on S-333, in conjunction with increased flows through the S-333 spillway to NESRS via the L-29 Canal.
- C. Improve hydrological conditions in NESRS by maximizing the flexibility and efficiency of the existing infrastructure, including use of seepage management (e.g., S-356) to complement inflows to NESRS from WCA 3A.
- D. Gather and analyze infrastructure performance, ecologic, hydrologic and water quality data sufficient to support Increment 2, resulting in the following:
 - i. Data gathering sufficient to support water quality certification
 - ii. Refined operational criteria for the MWD and C-111 South Dade Projects
 - iii. Updates to the 2012 Water Control Plan





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