

CENTRAL VALLEY FLOOD MANAGEMENT PLANNING PROGRAM



Errata to the Public Draft

2012 Central Valley Flood Protection Plan

Volume III – Attachments 8 through 8E

June 2012

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1. **Attachment 8 – Technical Analysis Summary Report, Section 2.0, page 2-1, second sentence of first paragraph**

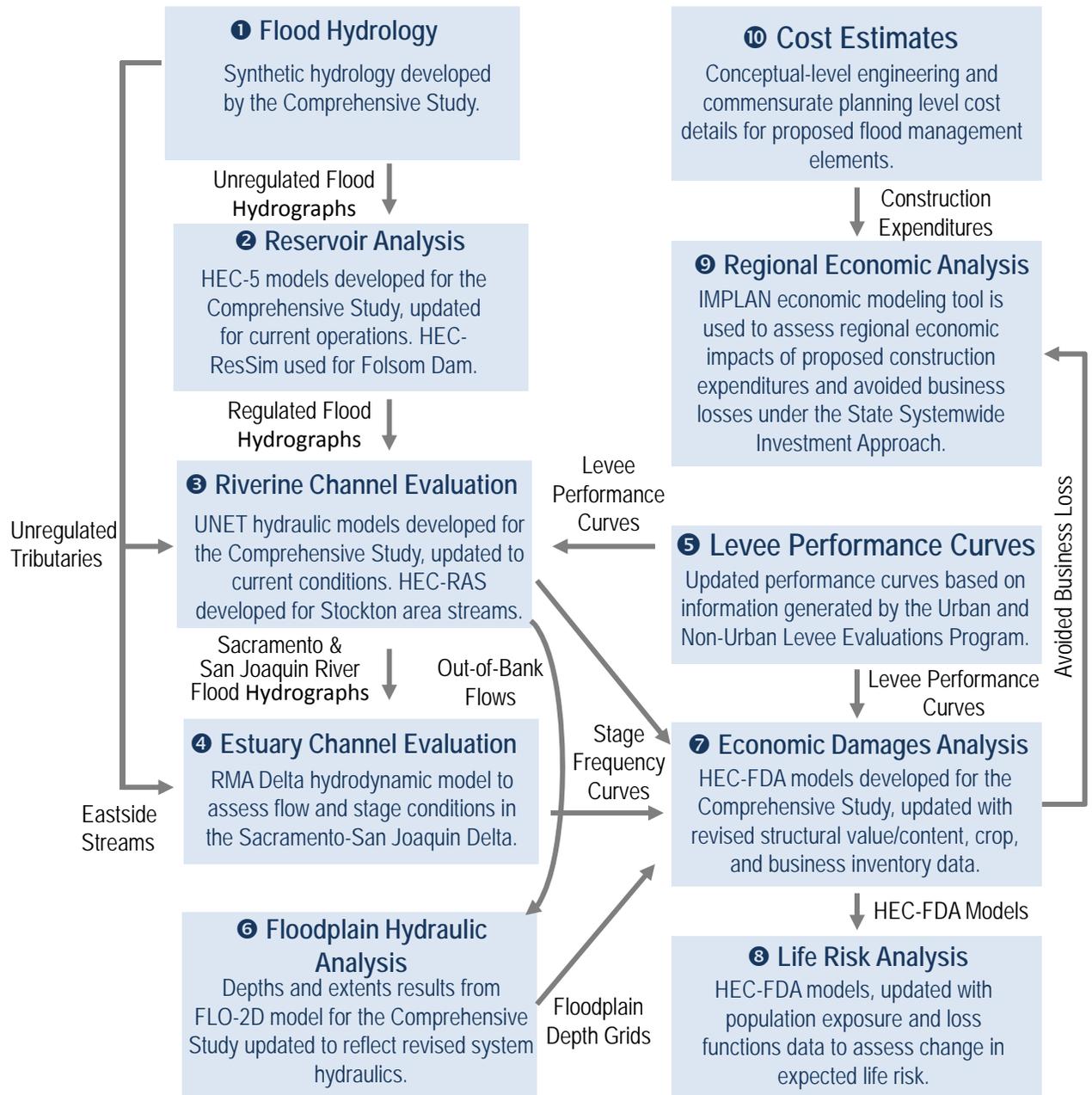
Evaluation and comparison of the approaches focused primarily on the physical **and operational** elements of the approaches.

2. **Attachment 8 – Technical Analysis Summary Report, Figure 3-1, page 3-2**

Replace Figure 3-1 “Technical Analyses and Tools Supporting 2012 CVFPP Development” with the following for color consistency.



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Legend:
Comprehensive Study
HEC
HEC-FDA
FLO-2D
HEC-RAS
HEC-ResSim
HEC-5
IMPLAN
RMA
UNET
USACE

Sacramento and San Joaquin River Basins Study Comprehensive Study (USACE, 2002)

USACE Hydrologic Engineering Center
HEC Flood Damage Analysis model
Fullerton, Lenzotti, and O'Brien – Two Dimensional model
HEC River Analysis System model
HEC Reservoir Operations Simulation model
HEC Reservoir Operations Simulation model (predecessor to HEC-ResSim)
Impact Analysis for Planning
RMA Finite Element Model of Sacramento-San Joaquin Delta hydrodynamics
One-Dimensional Unsteady Network Flow model (predecessor to HEC-RAS)
U.S. Army Corps of Engineers

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3. Attachment 8 – Technical Analysis Summary Report, Section 4.1, page 4-2

Floodplain restoration opportunity analysis is documented in **Attachment 9F of the** Supporting Documentation for the Conservation Framework.

4. Attachment 8 – Technical Analysis Summary Report, Figure 5-1, page 5-2

Replace Figure 5-1 “New Technical Data and Tools Being Developed to Support the 2017 CVFPP Update” is replaced by the revised version in the following page for color consistency.

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5. **Attachment 8A – Hydrology, Section 2.2, page 2-6, last sentence in fifth bullet**
...objective release (maximum allowable flow downstream from a reservoir ~~before the beginning of flooding~~)...
6. **Attachment 8B – Reservoir Analysis, Section 1.7.5, page 1-14, fourth paragraph**
Change subheading format.
1.7.6 San Joaquin River Restoration Program
7. **Attachment 8B – Reservoir Analysis, Section 1.7.6, page 1-15**
Update subheading numbering.
1.7.67 Surface Storage Investigations
8. **Attachment 8B – Reservoir Analysis, Section 1.7.7, page 1-15**
Update subheading numbering.
1.7.78 Federal Energy Regulatory Commission Relicensing
9. **Attachment 8C – Riverine Channel Evaluations, Section 3.8, page 3-16**
3.8 Model Assumptions: Enhance Flood System Capacity Approach
10. **Attachment 8E – Levee Performance Curves, Section 1.6, page 1-6, last sentence of first paragraph**
The approach used to develop levee performance curves herein generally follows a process similar to that described in the *USACE Manual Engineering Technical Letter (ETL) H021110-2-556* (USACE, 1999).
11. **Attachment 8E – Levee Performance Curves, Section 3.1.1, page 3-1, last sentence of fifth paragraph**
The approach used to develop levee performance curves generally follows a process similar to that described in *USACE Manual Engineering Technical Letter (ETL) H021110-2-556* (USACE, 1999).

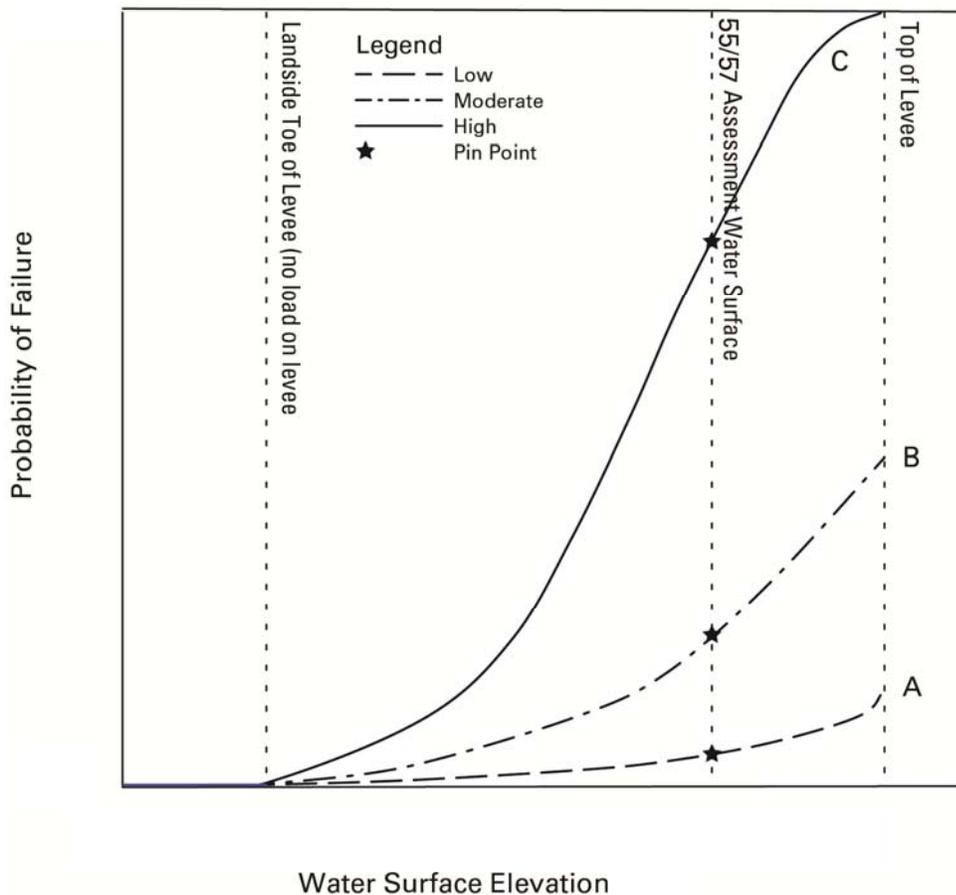
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12. Attachment 8E – Levee Performance Curves, Section 3.2.1, page 3-3, second paragraph

For the ULE study areas, the ULE teams reviewed data and analysis results from the ULE Technical Review Memoranda (URS, 2007-2010); Phase 1 Geotechnical Data Reports (URS, 2008-2009); Phase 1 Geotechnical Evaluation Reports (URS, 2008); and where already prepared, Supplemental Geotechnical Data Reports (URS, 2010c).

13. Attachment 8E – Levee Performance Curves, Section 3.3, page 3-6, Figure 3-1

Replace Figure 3-1 “Conceptual NULE Levee Performance Curves for Hazard Categories Low (A), Moderate (B), and High (C)” with the following:

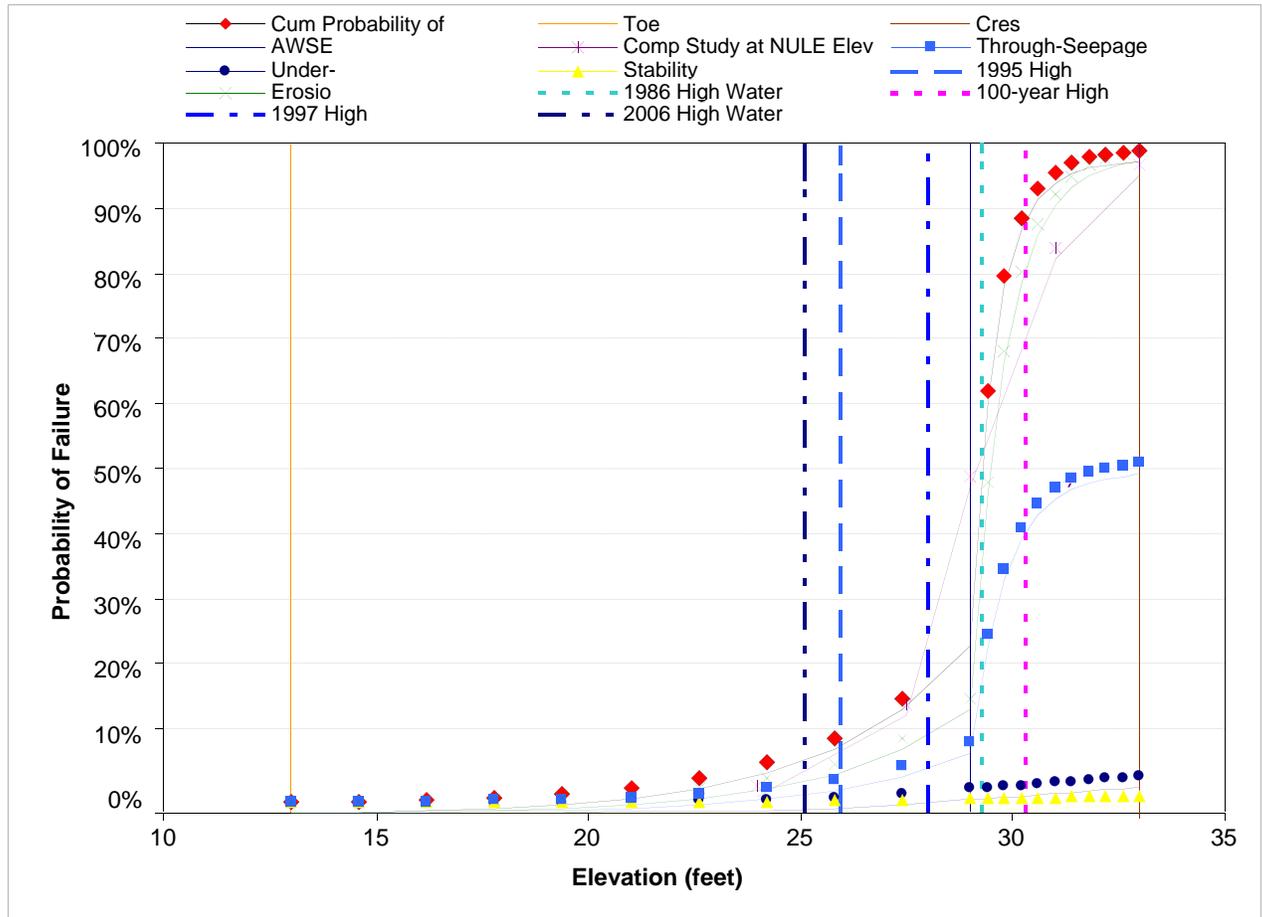


Note: Values in figure are not to scale

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14. Attachment 8E – Levee Performance Curves, Section 3.3, page 3-8, Figure 3-2

Replace Figure 3-2 “Example NULE Levee Performance Curve” with the following:



Note: These curves represent a levee segment with the following hazard categories from the GAR: Moderate (B) for underseepage, Low (A) for stability, LD (Moderate (B) or High (C)) for through-seepage, and High (C) for erosion.

Key:

AWSE = assessment water surface elevation

Cum = cumulative

Elev = elevation

NULE = Non-Urban Levee Evaluations

15. Attachment 8E – Levee Performance Curves, Section 4.1, page 4-1

This section presents the levee performance curves developed using the techniques described above for use in systemwide SPFC hydraulic (UNET) and economic damage (HEC-FDA) modeling and for preparing the 2012 CVFPP. Table 4-1 contains **only the** levee performance curves **at the HEC-FDA index points** for the Sacramento River Basin and Table 4-2 contains **only the** levee performance curves **at the HEC-FDA index points** for the San Joaquin River Basin.



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16. Attachment 8E – Levee Performance Curves, Section 4.1, pages 4-2 through 4-13, Table 4-1

In the heading row of Table 4.1, replace the term “SA” with “SAC” (see example below).

Table 4-1. Sacramento River Basin Levee Performance Curves

| ID | SAC1 | SAC2 | SAC3 | SAC4 | SAC5 | SAC6 |
|-------------|----------------------------|----------------------------|----------------------|--------------|--------------------|-------------------|
| Name | Woodson Bridge East | Woodson Bridge West | Hamilton City | Capay | Butte Basin | Butte City |

17. Attachment 8E – Levee Performance Curves, Section 5.0, page 5-1

URS Corporation (URS). 2007-2010. *Technical Review Memorandum: American River Study Area; Davis Study Area; Natomas NWS Study Area; RD404 Study Area; RD784 Study Area; Sacramento River Levee Study Area; San Joaquin Area Flood Control Agency Area Levees; and West Sacramento Study Area.*

———. 2008. *Phase 1 Preliminary Geotechnical Evaluation Report (PIGRD) Marysville Study Area.* August.

———. 2008-2009. *Phase 1 Geotechnical Data Report: Davis Study Area; RD17 Study Area; RD404 Study Area; Reclamation District 404 ; Sacramento River Study Area; San Joaquin Area Flood Control Agency Study Area Bear Creek Drainage; San Joaquin Area Flood Control Agency Calaveras River Drainage; Sutter Study Area; West Sacramento Study Area; Woodland Study Area; and RD17 Study Area.*

———. 2010a. *Flood Control System Status Report Tables and Maps, Sacramento and San Joaquin River Basin Study Areas.* Unpublished consulting report submitted to the California Department of Water Resources, Division of Flood Management. August.

———. 2010b. *Geotechnical Assessment Report, North NULE Study Area.* Unpublished consulting report submitted to the California Department of Water Resources, Division of Flood Management. June.

———. 2010c. *Supplemental Geotechnical Data Report: American River Study Area; RD17 Study Area; and Sutter Study Area.*

USACE. See U.S. Army Corps of Engineers

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- U.S. Army Corps of Engineers (USACE). 1996. Engineers Manual (EM) 1110-2-1619. Risk-Based Analysis for Flood Damage Reduction Studies. August 1.
- . 1999. Risk-Based Analysis in Geotechnical Engineering for Support of Planning Studies. U.S. Army Corps of Engineers, ~~Manual~~ Engineering Technical Letter (ETL) ~~H021110~~-2-556. Includes appendices. May.

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