

F.E. WALTER RE-EVALUATION STUDY OBJECTIVES

1. Reduce life loss and economic damages during flood events along the Lehigh River downstream of the F.E. Walter Dam resulting from increases in population and development that have occurred since the project was constructed, as well as the possible increasing intensity and frequency of storms in the Northeast U.S., over the 50-year period of analysis.
2. Improve the quality of aquatic habitat and enhance recreational fishing opportunities in the Lehigh River up to 30 miles downstream of the dam by reducing elevated water temperatures released from the F.E. Walter Reservoir in mid-July through September, over the 50-year period of analysis.
3. Enhance the ability of the F.E. Walter Reservoir to further contribute to mandated flow objectives in the Delaware River measured at Trenton, New Jersey and repel the salt front on the river, by increasing the flexibility to provide low flow augmentation via the Lehigh River during drought conditions, over the 50-year period of analysis.



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F.E. WALTER STUDY OBJECTIVES (CONTINUED)

4. Improve boating and fishing opportunities on the F.E. Walter Reservoir during the summer season, over the 50-year period of analysis.
5. Enhance upland public recreational opportunities year-round on lands associated with the F.E. Walter Dam & Reservoir, over the 50-year period of analysis
6. Provide opportunities for swimming in the F.E. Walter Reservoir during the summer season, over the 50-year period of analysis.



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F.E. WALTER STUDY CONSTRAINTS

- Mitigate adverse impacts to Federally threatened or endangered species
- Mitigate any increases to the residual or incremental life risk downstream of the dam
- Do not compromise the use of the dam and reservoir for flood risk management (i.e., maintain adequate flood storage space)
- Do not negatively affect use of the Lehigh River for whitewater recreation and fishing
- Minimize impacts to upstream businesses and communities from potential modifications to the dam
- Do not compromise the ability to conduct vital maintenance activities on the intake tower



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ALTERNATIVES CARRIED FORWARD TO BE ANALYZED AS PART OF STUDY

- Alt 1 – No Action
- Alt 2 – Increased Storage with Structural Modifications
- Alt 3 – Raise Dam (consider multiple elevations) with Tower Replacement
- Alt 4 – Modify Existing Tower for Selective Withdrawal
- Alt 5 – Operational Changes to Alter Releases
- Alt 6 – Build or Raise Levees, Add Dikes
- Alt 7 – Non-structural Downstream Flood Improvements
- Alt 8 – In-lake Recreational Enhancements
- Alt 9 – Upland Recreational Enhancements



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PRIMARY ALTERNATIVES WITH POSSIBLE ADDITIONAL MEASURES

Alternative	Additional Measures TBC
2 – Increased Storage with Structural Modifications	Build or raise levees, add dikes (Alt 6)
3 – Raise dam (multiple elevations) with Tower Replacement	Non-structural downstream flood improvements (Alt 7)
4 - Modify Existing Tower for Selective Withdrawal	In-lake Recreational Enhancements (Alt 8)
	Upland Recreational Enhancements (Alt 9)
	Formalize drought emergency agreement
5 – Operational Changes to Alter Releases	Authorize project for other uses (water supply)



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MILESTONE SCHEDULE

6

Planning Milestone	Date
Cost Sharing Agreement executed/Study Begins	25 SEP 19
Kickoff meeting	25 OCT 19
Alternatives Milestone Meeting	28 MAY 20
Tentatively Selected Plan Milestone Meeting	24 MAY 21
Draft Report Submittal to Higher Headquarters	02 JUL 21
Agency Decision Milestone Meeting	16 NOV 21
Final Report Complete	04 APR 22
Chief's Report/Study Conclusions	21 SEP 22



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