

SUBJECT: FY10 Joint Routine Inspection of Completed Works, Flood Damage Reduction Project, Keuka Lake Outlet – Control Structure, Penn Yan, New York (08/12/10)

“UNACCEPTABLE” (U) rating will be designated as inactive in the Corps of Engineers RIP and will not be inspected by the Corps anymore until the deficiencies have been corrected. Effective date for unsatisfactory projects to be considered inactive will be date of receipt by the local sponsor of the inspection report. For these projects to become active again all serious deficiencies must be satisfactorily addressed and, the project re-inspected by the Corps with at least a minimally acceptable rating.

For projects rated “ACCEPTABLE” (A), a copy of the report will be forwarded to the local sponsor and county emergency management agency. For projects rated “MINIMALLY ACCEPTABLE” (M), a copy of the report will be forwarded to the local sponsor, county emergency management agency, state emergency management agency, and the local FEMA region. For projects rated “UNACCEPTABLE” U, a copy of the report will be forwarded to the local sponsor, county emergency management agency, state emergency management agency, local FEMA region and the local Congressional delegation.

The inspection checklist (Attachment "B") includes a two page section labeled "Public Sponsor Pre-Inspection Report". The local sponsor should complete this section just prior to the next scheduled inspection and provide to Corps inspector upon his arrival. The "Reporting Period is the timeframe between inspections (i.e. inspection date of this report and date of next scheduled inspection).

Please keep this office informed if there are any changes to the project that would affect the design level of protection afforded by the project, or if there are any other changes which may alter or impact any project features. Such changes require prior written approval from the Corps of Engineers and NYSDEC.

Questions pertaining to this matter should be directed to the undersigned, who can be contacted in writing at the above address, by telephone at 716-879-4277 or by e-mail at robert.w.remmers@usace.army.mil.

Sincerely



Robert W. Remmers, P.E., PMP
Levee Safety Program Manager
Chief, Operations and Technical Support Section

Enclosures

CF: (w/encls)

Stephen Len, NYSDEC - Division of Water, Flood Control Project Unit
Karis Manning, NYSDEC – Region 8
Diane Caves, Yates County Emergency Management Department

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1. **OBJECTIVE:** The objective of this inspection is to assure project sponsor compliance with existing agreements, evaluate effectiveness of the sponsor to operate and maintain facilities constructed by the United States in accordance with the Operations and Maintenance (O&M) manual, and determine if the sponsor has adequately met standards required to maintain eligibility for PL 84-99 Federal rehabilitation assistance should the project be damaged by flooding or a storm event.
2. **PROJECT CLASSIFICATION:** Flood Damage Reduction – Flood Protection Control Structure
3. **REPORTING PERIOD:** 07/10/09 – 08/12/10
4. **INSPECTION TEAM:** The inspection team met at the project site on 08/12/10. The following representatives from the U.S. Army Corps of Engineers (USACE - Buffalo District), the New York State Department of Environmental Conservation (NYSDEC), Keuka Lake Outlet Compact, and Town of Jerusalem participated in the inspection.

| <u>Name</u> | <u>Organization</u> | <u>Phone</u> |
|----------------|---|------------------|
| Jeremy Watts | USACE - Buffalo District | (716) 879 - 4349 |
| David Mitchell | USACE – Buffalo District | (716) 879 - 4115 |
| Joe Kasperski | USACE – Buffalo District | (716) 879 - 4313 |
| Karis Manning | NYSDEC - Region 8 | (585) 226 - 5445 |
| Nadine Little | NYSDEC - Albany | (518) 402 - 8142 |
| Daryl Jones | Town of Jerusalem | (315) 595 - 2287 |
| Bill Weber | Keuka Lake Outlet Compact | (607) 738 - 1547 |
| Richard Osgood | Director of Public Works | (315) 536 - 3374 |
| Paul Bauter | Keuka Watershed Improvement Cooperative | (315) 536 - 0917 |

5. **OVERALL PROJECT RATING:** In accordance with Headquarters, USACE guidance, this project is rated "Acceptable" (A). The presence of no deficient conditions that lessen the degree of project reliability was the determining factor for the project rating.

Prior to this evaluation, the project was last inspected on 07/10/09. The condition of the project at the time of that inspection was rated as "Acceptable" (A).

6. **PROJECT LOCATION, DESCRIPTION, AND LOCAL SPONSOR:**

- a. **Project Location:** The project is located on the Keuka Lake Outlet, about one mile downstream from the northeastern-most end of Keuka Lake, in the Village of Penn Yan, New York.
- b. **Project Description:** The project, which required the removal of an earth and masonry dam, consists of three aluminum sluice gates that were added to two existing gated raceway structures. This outlet structure maintains the level of Keuka Lake and facilitates high volume discharge on the order of 1,000 cubic feet per second in order to reduce the probability of lake shoreline flooding under high lake level conditions. Other project features include: a grouted channel bottom that extends downstream from the control structure through the center arch section of the adjacent Main Street bridge, a 60-

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foot long concrete wall downstream of the bridge on the left side of the center arch, and a 50-foot section of channel immediately downstream from the bridge which has been stabilized with 36-inch riprap.

- c. **Local Sponsor:** In accordance with the project O&M manual, NYSDEC - Region 8 has assumed responsibility for the operation and maintenance of the project. NYSDEC has, in turn, entered into a separate agreement with the Keuka Lake Outlet Compact (KLOC) to perform maintenance on the project.

7. **INSPECTION FINDINGS:** Deficiencies found during this inspection are noted below. Deficiency categories are described in the report transmittal letter. Refer to Attachment "A" for project inspection photographs, Attachment "B" for project inspection checklist (showing ratings of individual inspection items), Attachment "C" for a project map, and Attachment "D" for Emergency Response Plan guidelines.

a. **Potential Deficiencies:** None.

b. **Minor Deficiencies:**

- (1) The Emergency Response Plan provided by NYSDEC is inadequate in regards to addressing specific issues related to emergency flood fighting. Correction of this deficiency is past due and required immediately. Sponsor may use Attachment "D" for this purpose.

c. **Serious Deficiencies:** None.

8. **SUMMARY OF MAINTENANCE REQUIRED BY LAST INSPECTION REPORT:**
See FY09 Inspection Report (inspection date 07/10/09).

9. **SUMMARY OF MAINTENANCE PERFORMED AFTER LAST INSPECTION:**
(1) Gates were exercised gates and regularly maintained.

10. **SUMMARY OF CHANGES TO PROJECT SINCE LAST INSPECTION:** None.

11. **PROBLEMS/ISSUES REQUIRING ASSISTANCE OF USACE:** None.

12. **ADDITIONAL OBSERVATIONS:**

- (1) Gates were operated during this inspection and observed to be in good working order.
- (2) The main project features, including the control structure, fences, railings, walkways, riprap, and grouted fabric are generally in satisfactory condition.
- (3) A significant amount of algae, floating vegetation, and debris accumulates upstream of the control structure during periods of inactivity. Operation of the gates releases this accumulation (see photos 1 – 3, 6, & 8).
- (4) The project sponsor did have a copy of the O&M manual during this inspection.