**Location:** The study area is within the St. Louis Flood Protection System situated along the right bank of the Mississippi River between Miles 176.3 and 187.2, in the City of St. Louis, Missouri.

**Description:** The City of St. Louis is protected against flooding from the Mississippi River through a levee, floodwall, and pump station system constructed by the Corps in the 1960s. A St. Louis Flood Protection System Reconstruction Evaluation Report was completed in 2005 and it comprehensively analyzed the levee and floodwall features of the flood protection system. During the analysis the Corps determined that the system was constructed with inadequate closure structures and underseepage protection. These corrections were physically completed in FY13. The Metropolitan St. Louis Sewer District (MSD) operates and maintains 28 pump stations within the flood protection system. A feasibility study examining the reconstruction of these pump stations is necessary to evaluate those concerns that merit Federal participation to address major project deficiencies caused by long-term degradation of engineering systems, construction materials, or project components.

**Issues:** These pump stations have exceeded their expected service life. The MSD funded a comprehensive condition assessment of each pump station identifying structural, mechanical, electrical upgrades, and closure gates that have significantly degraded.

**Importance:** Tens of thousands of people live and work within the 8,400 acres of industrial, commercial, and residential area protected by this system. A system failure would cause physical damages to infrastructure, loss of wages, operating revenues, and business income, spoilage of food and chemical products, and potential losses from fire, curtailment of power supply, and cessation of water supply. Significant transportation delays via six major intermodal facilities, five interstate highways, and 6 Class I railroads. The city of St. Louis and areas downstream could also incur significant environmental contamination from known Federal and State industrial sites containing hazardous waste as well as a radioactive waste site that is undergoing cleanup by the St. Louis District under the Formerly Utilized Sites Remedial Action Program (FUSRAP). Also the National Geospatial-Intelligence Agency has one of its two main facilities protected by the St. Louis Flood Protection System. The agencies mission is to provide Geospatial Intelligence in support of national security.

**Risk:** Without further evaluation of the structural, mechanical, electrical, and closure gate components further degradation reduces its ability to perform authorized project functions.

**Consequence:** The condition assessment study funded by MSD and dated 2009 evaluated the vulnerability of the pump station network and revealed that pump station failure during a high water event would cause widespread interior flooding and property damages exceeding $1.43 billion dollars.

**Activities for FY 15:** None

**Acquisition Strategy:** N/A

**Amount That Could Be Used in FY 16:** An amount of $300,000 could be used to initiate a cost shared feasibility study under specific Congressional authority of Section 5070, WRDA 2007.

**Project Sponsor/Customer:** Metropolitan St Louis Sewer District

**Congressional Interest:** Senators Blunt and McCaskill (MO) and Representative Clay (MO-1)

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<th>Phase</th>
<th>FY 15 Allocation</th>
<th>FY 16 Budget</th>
<th>FY 16 Total Capability</th>
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<tbody>
<tr>
<td>Construction</td>
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