



CRA Main Pump Motors – Condition Assessment Agreement

Engineering & Operations Committee

Item 7-1

December 9, 2019

Current Action

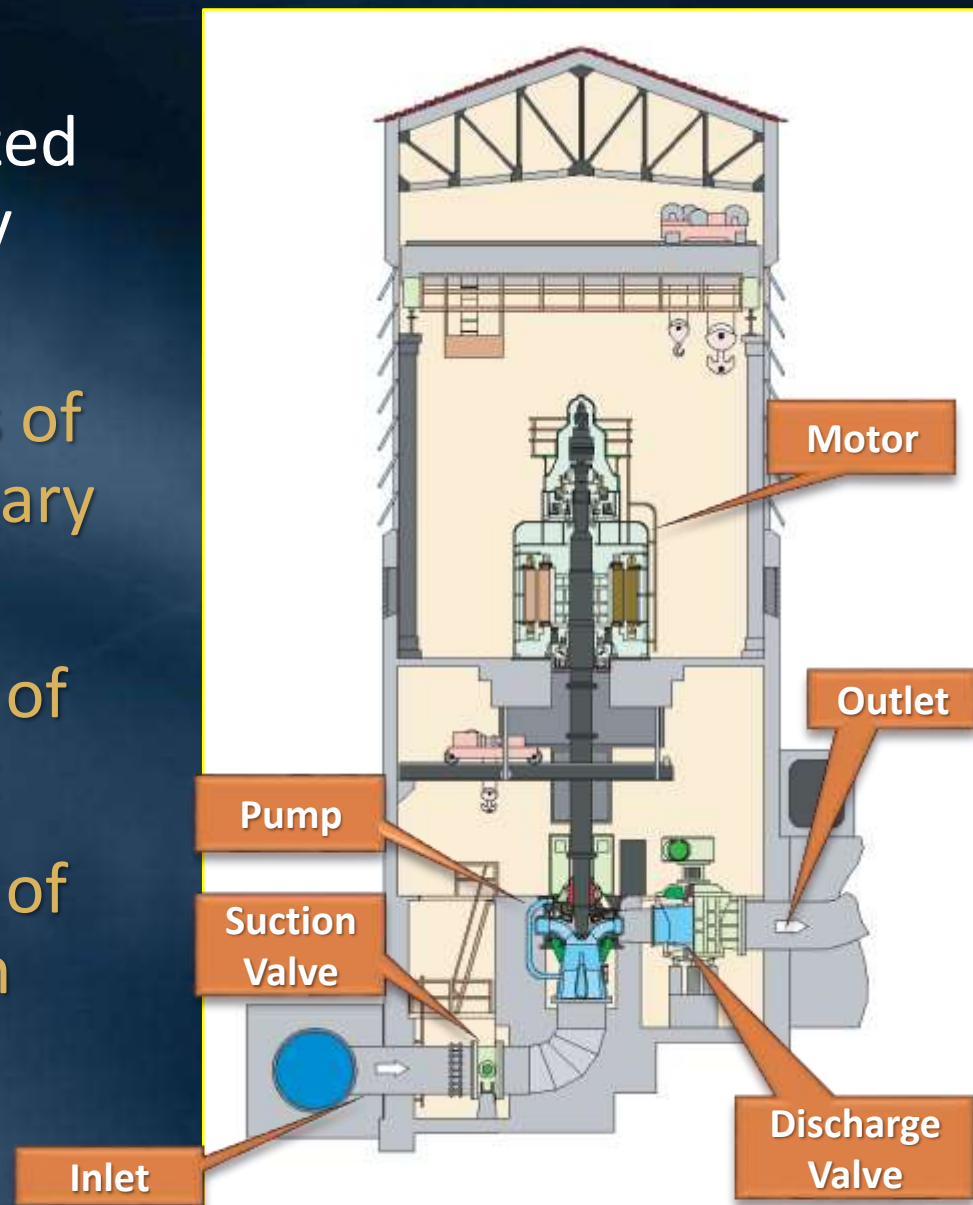
- Authorize an agreement with Industrial Electric Machinery in an amount not to exceed \$350,000 to provide condition assessments for the main pump motors at the Colorado River Aqueduct pumping plants

Location Map



Background

- Oct 2016 – Board authorized CRA Main Pump Reliability Program
 - Detailed investigations of 45 pump units & auxiliary support systems
 - Design & construction of demonstration project
 - Design & construction of full-scale rehabilitation



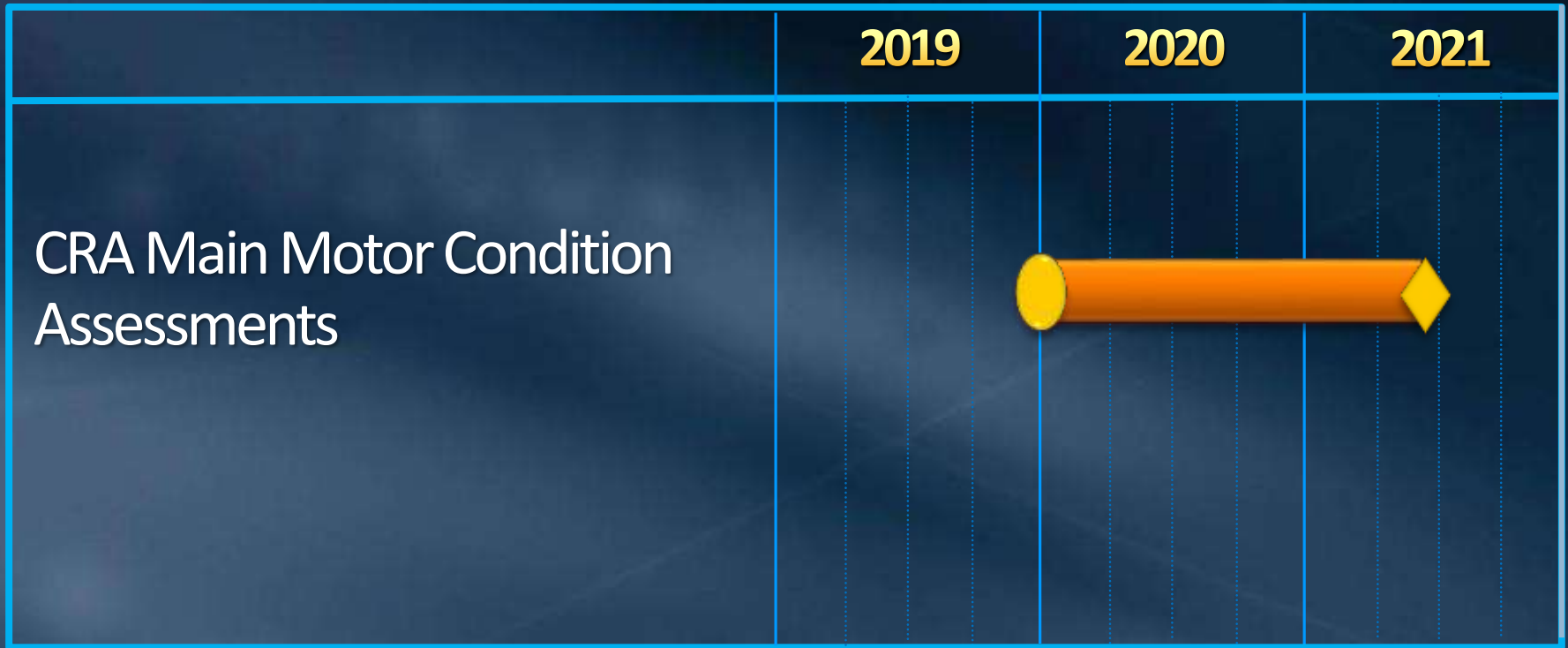
Alternatives Considered for Motor Assessments

- Alternative 1
 - Assess all 45 main motors at all 5 plants
- Alternative 2
 - Assess a select number of representative units
 - 25 of 45 main motors at all 5 plants
 - Installation date
 - Motor manufacturer (4 vendors)

Industrial Electric Machinery – New Agreement

- Scope of work
 - 25 of 45 main motors at all 5 plants
 - Electrical diagnostic testing to measure condition of stator & rotor field windings
 - Electromagnetic Interference (EMI) tests to detect defects & deterioration of various motor components
- Competitively selected via RFP No. 1227
- SBE participation level – 25%
- Agreement amount NTE \$350,000

Schedule



Assessments



Board Action



Completion

Board Options

- Option #1
 - Authorize an agreement with Industrial Electric Machinery in an amount not to exceed \$350,000
- Option #2
 - Do not proceed with the project at this time

Staff Recommendation

- Option #1

