

Installation of New Standard Miter Gates at Lock 21

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**US Army Corps
of Engineers®**























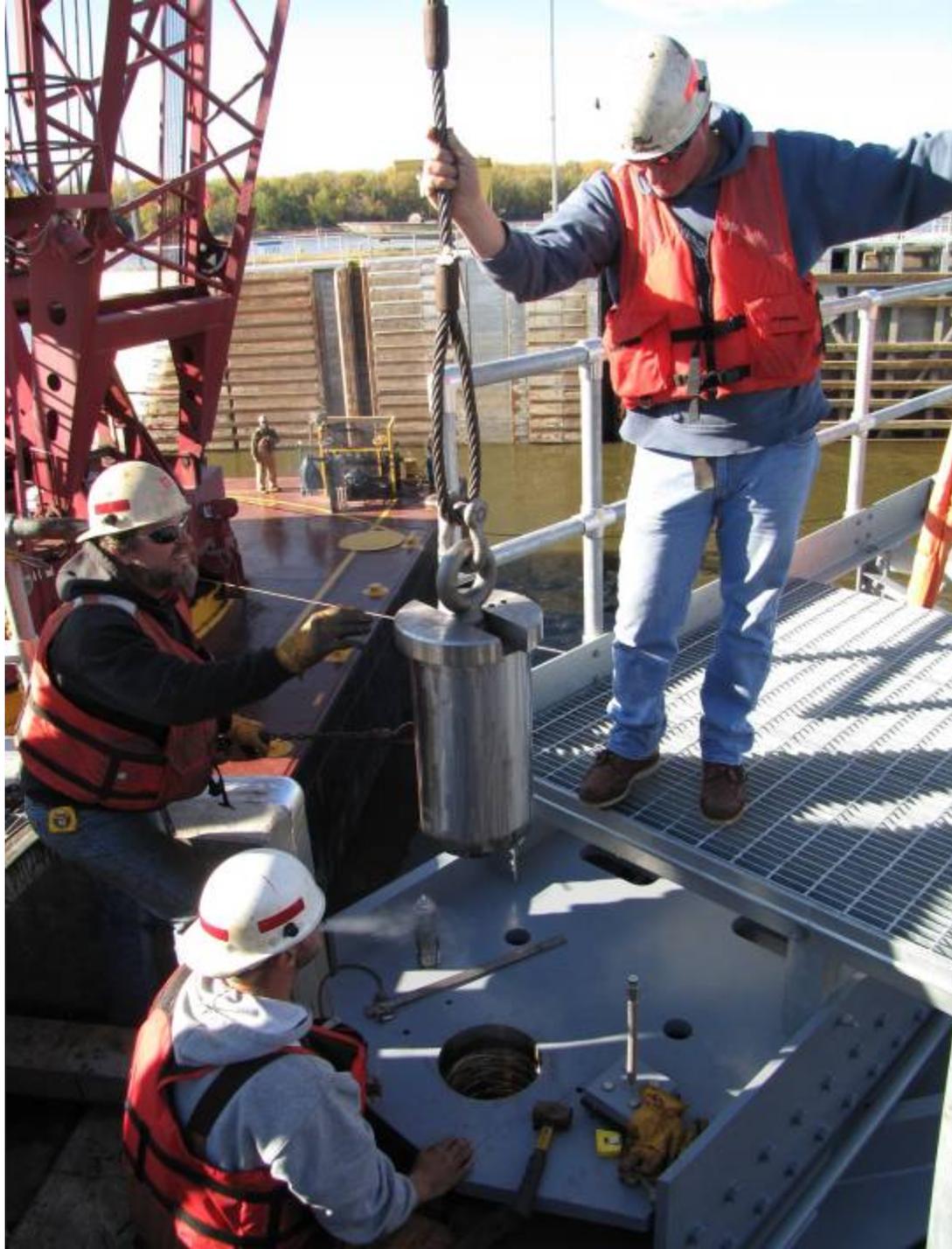
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DISTRICT



























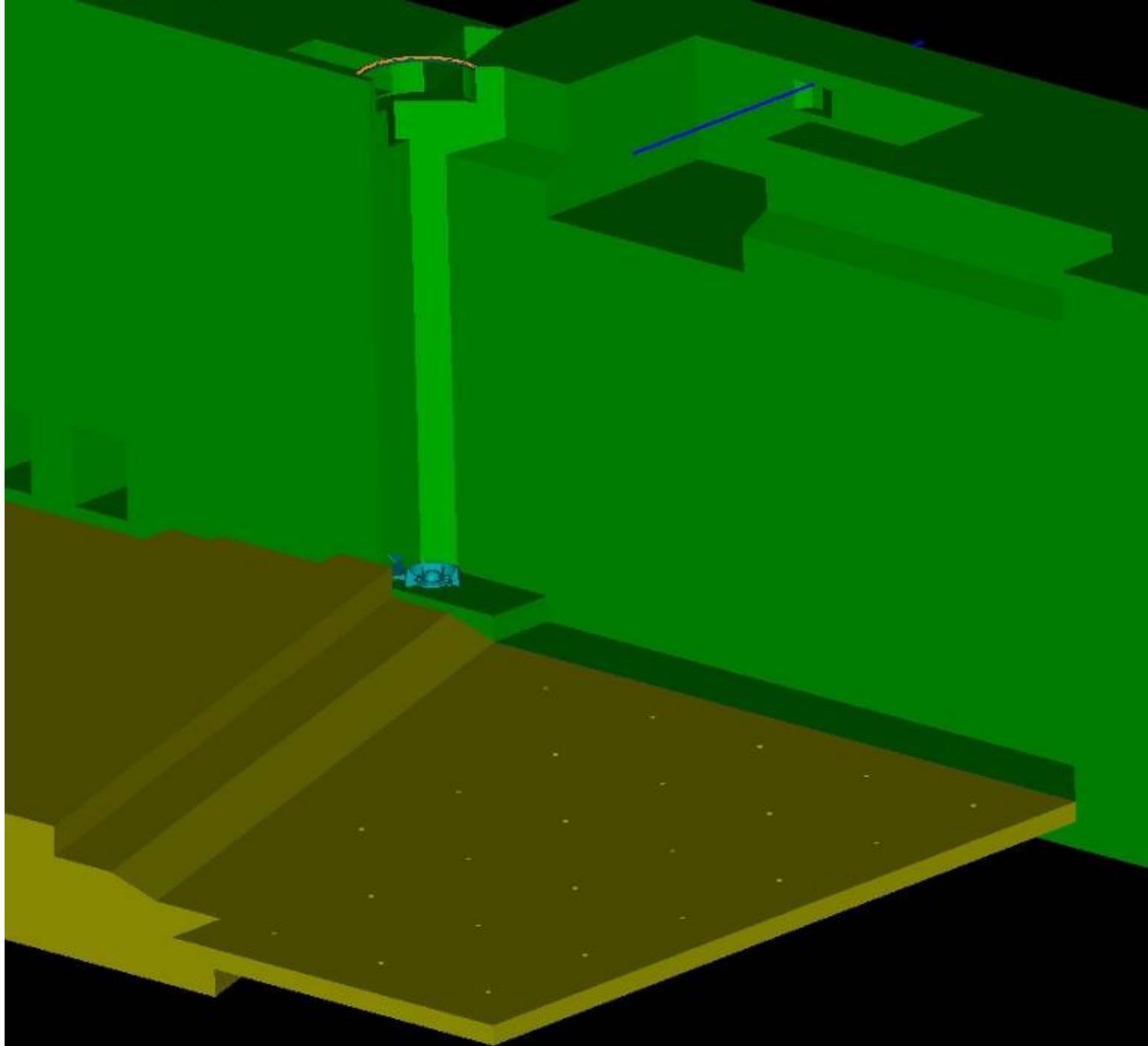


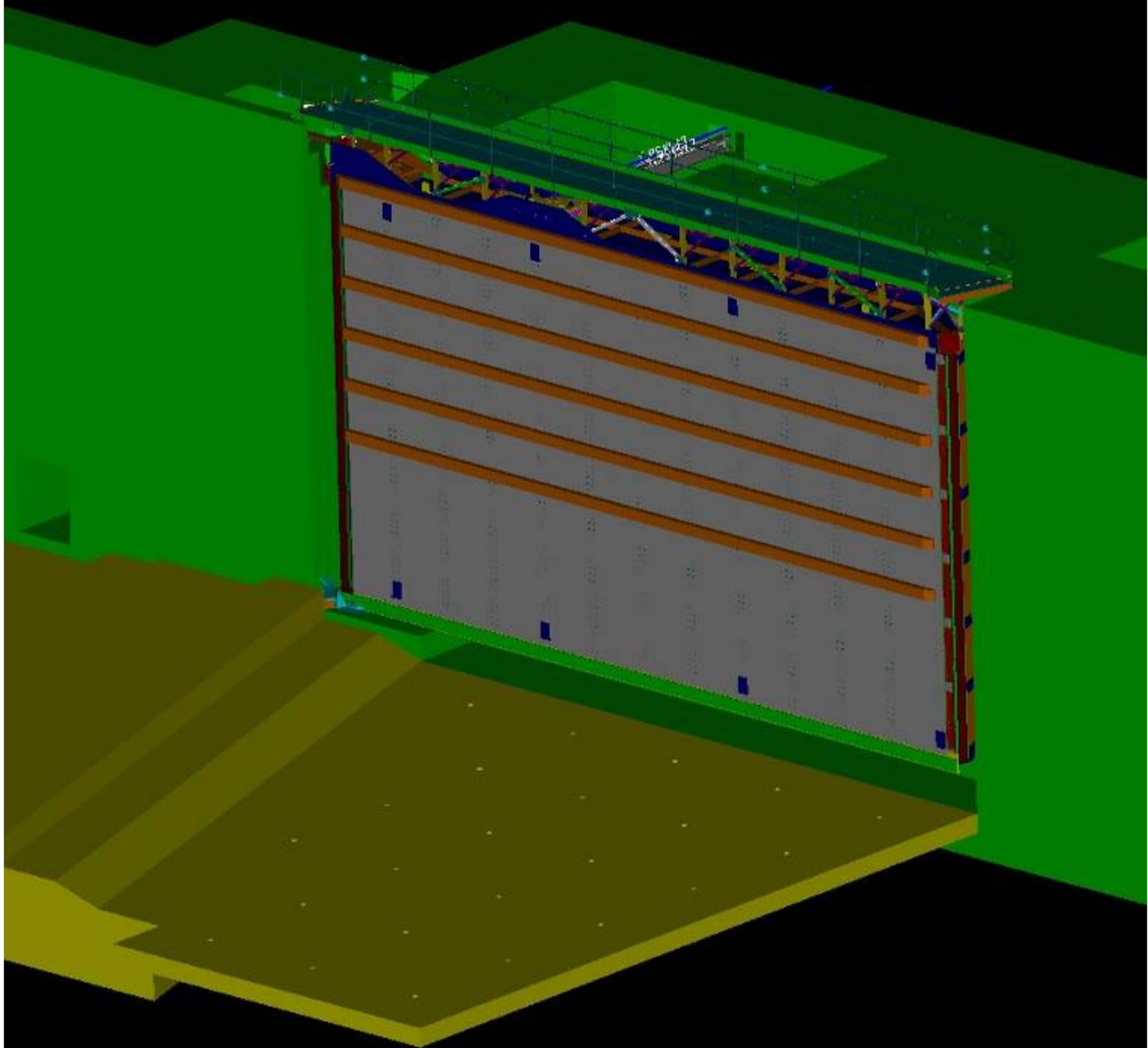


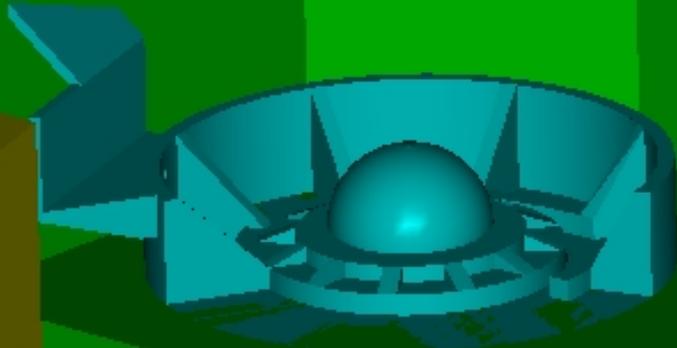


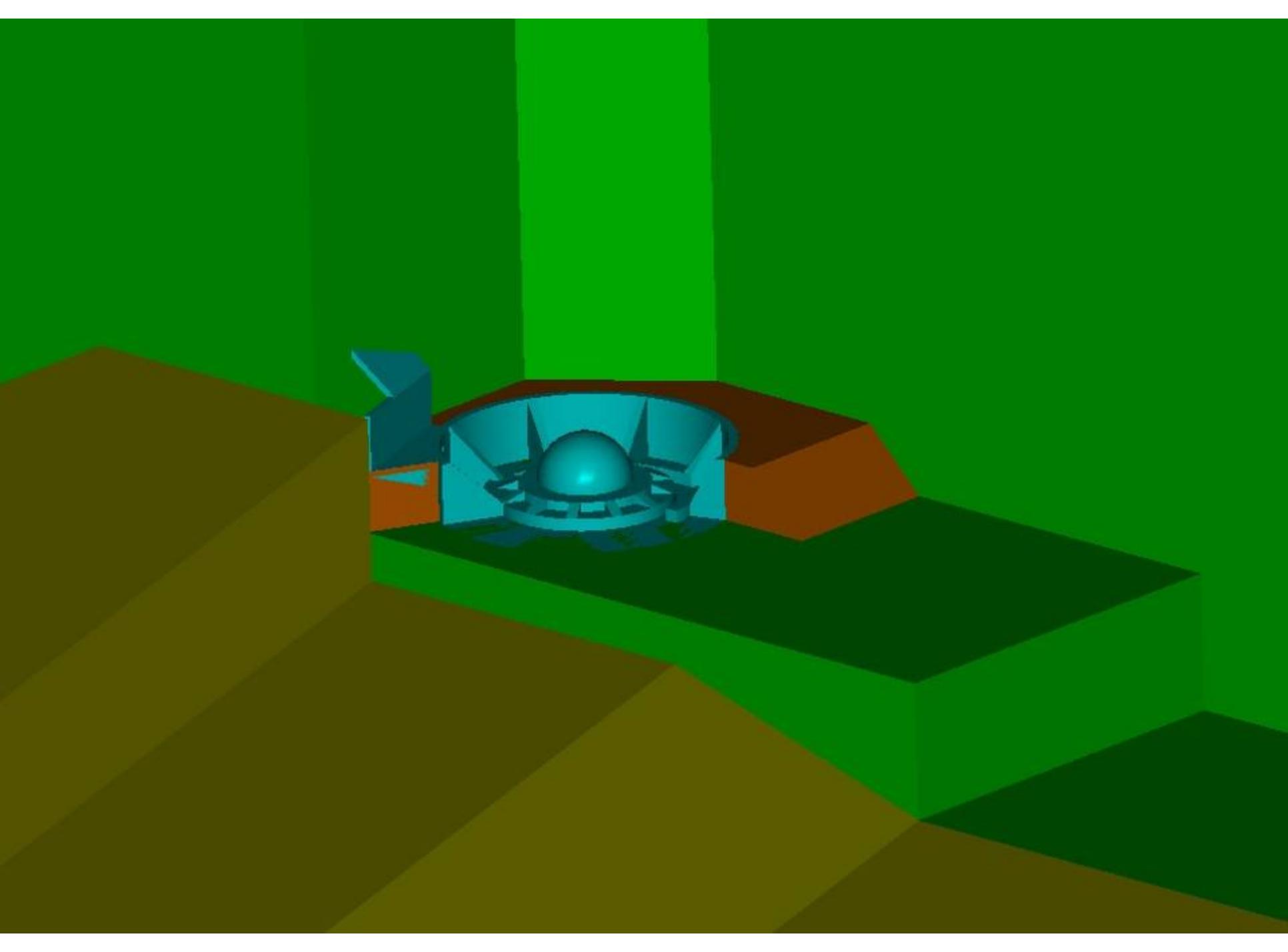














After Action Review

Lessons Learned / Action Items

- Gate design modification issues: Many design modifications were discussed – Engineering Construction (EC) will provide draft of changes and follow up meeting
- Pre-inspection to identify interferences w/ existing lock walls, plumbing, handrail, dredging needs in auxiliary, etc.
- Purchase ROV Camera (budget dependent)
- Purchase Sawzall, chipping hammer, radios for dive team
- Combined pre/post meeting each day including “all hands” (lock, dive team, EC, Structures)
- Grease / wrap anchor bar threads (EC is looking at alternatives)
- Modify existing contract to revise barge loading configuration (2 gates per barge)
- Look at value of lock dewatering at LD 20 and LD 22
- Consider alternative location to accept gates, maybe place on spare gate barge
- Safety – No divers near unsecured gate

After Action Review

Continuation of Good Practices

- Have EC onsite and related experts during difficult installations
- Good access to drawings/plans/photos both onsite and at District Office
- Good Communication and meetings: Good upfront coordination meetings during design, fabrication, and installation phases between EC and Project Office
- Successful salvaging of old critical parts from miter gates such as “step-ups” for use in future repair efforts.