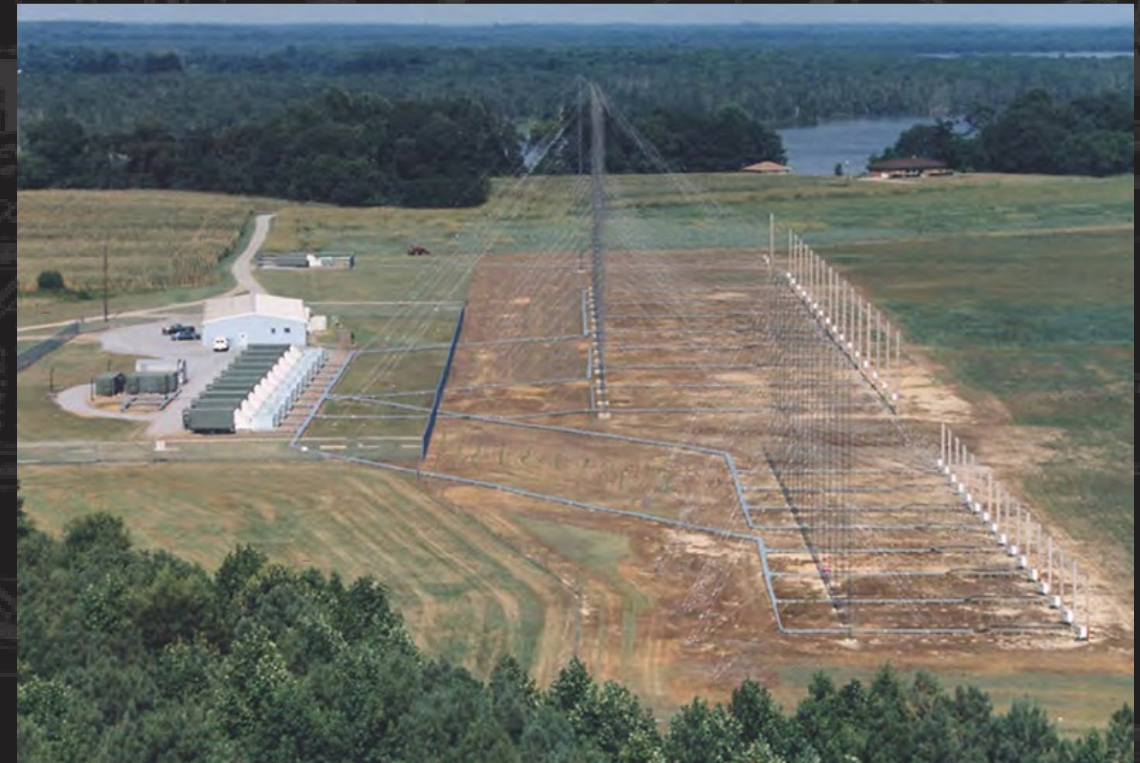
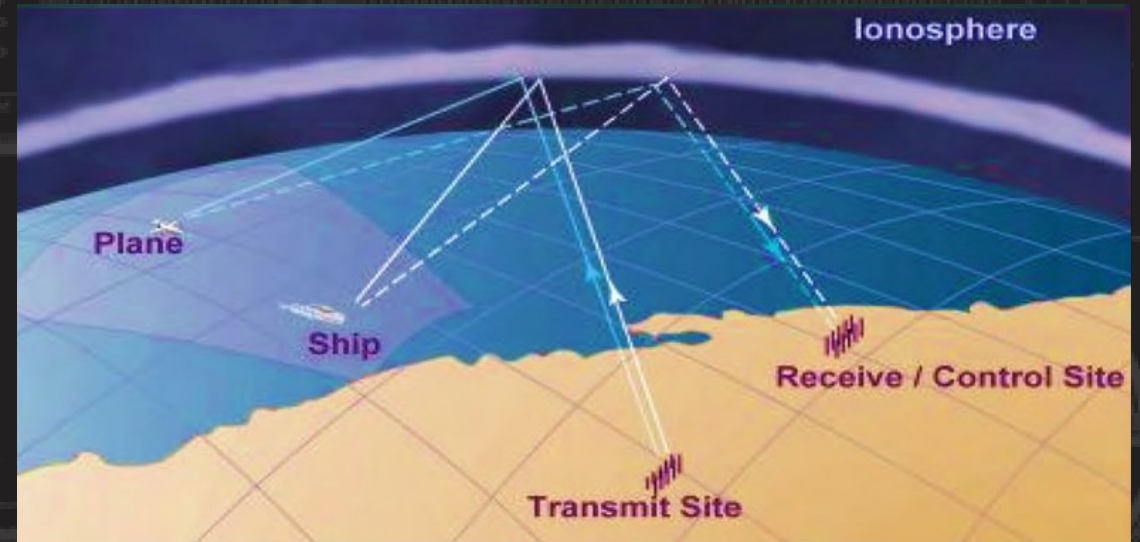


OVER-THE-HORIZON-RADAR

Northwestern Division
US Army Corps of Engineers
2026

Gary Shirley, R.A., Project Manager
USACE, Kansas City District
Military Programs
April 24, 2026



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of Engineers®



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AGENDA

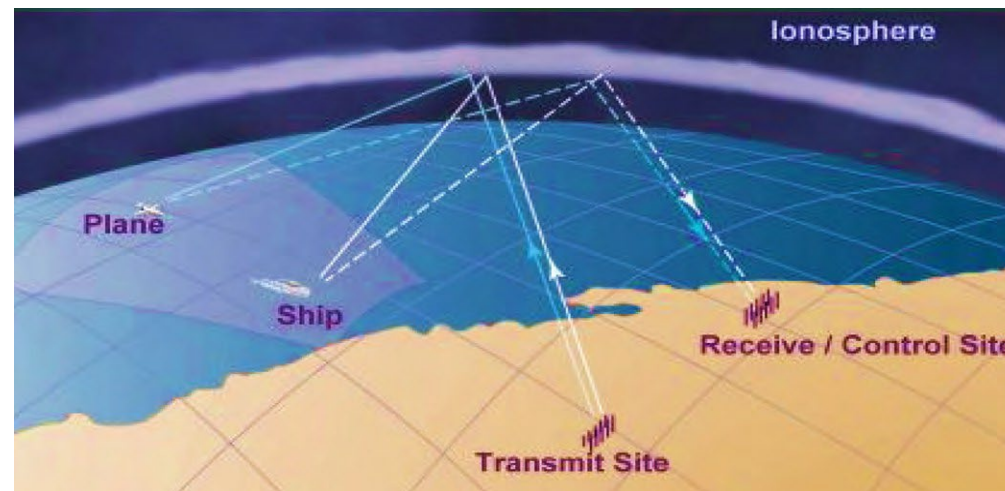
1. What is Over The Horizon Radar (OTHR)
2. Scope & Schedule
2. Planned Construction Overview
3. Construction Site Civil Work
4. Radar Arrays – Sample Site Plans
5. Known Challenges/Risks for Construction



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WHAT IS OTHR?

- Over-The-Horizon-Radar (OTHR) systems are high frequency (HF), bistatic, ionospheric backscatter radars that provide over-the-horizon detection and tracking of air and surface targets.
- OTHR Transmitter and Receiver systems must be physically separated by a large distance.
- Each Transmitter and Receiver site includes radar arrays and support facilities.



Example Transmit Site



SCOPE & SCHEDULE

Program Scope:

Total MilCon Program Amount: ~\$500M

Remote Locations:

Transmit (Tx) and Receive (Rx) Sites are in separate remote sites approximately 125 miles straight line distance apart.

Driving times to major metropolitan areas are 3-4 hours.

Schedule: These are target dates only

- Advertise for Qualifications (Step-1) FY27Q2
- Construction Contract Award FY27Q4
- Project Complete FY29Q1





PLANNED CONSTRUCTION OVERVIEW

Facilities at each site included in this project may include:

- Operations Facilities
- Antenna Foundations and Support Structures (Multiple and differing types)
- Power and Fueling Areas at each site
- Water Treatment at each site
- Vehicle Maintenance/Storage Facilities and others (Multiple Buildings)
- Fencing (multiple types)

Construction at Tx and Rx must be concurrent not sequential. They do not have to finish on the same date.

Not included in this is the project is the design and installation of the radar system (antennas, associated cables, and electronic operations equipment). **However**, close coordination with the radar installer is required as once facilities are available for radar install, the installer will be working on site while facilities construction is ongoing. There are multiple **Joint Use Dates (JUD)** and **Beneficial Occupancy Dates (BOD)** associated with this project to facilitate radar installation. The JUDs and BODs will drive your schedule.



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CONSTRUCTION SITE CIVIL WORK

SITE Civil Work associated with this project will include:

- Paving
- Fuel Storage
- Water Storage
- Utility Infrastructure
- Large scale grading/earthworks
- Footings for antenna arrays
- Fencing

Some phasing of construction efforts and coordination with system integrator during construction will be required, phasing requirements will be outlined in the RFP.



KNOWN CHALLENGES/RISKS FOR THIS PROJECT

- 1) Remote Site locations
- 1) Two sites within the project separated by over one hundred miles with concurrent construction
- 2) Minimal to no local workforce availability
- 3) Logistical/material supply chain challenges
 - a) Limited local sustainment/material/utilities availability
 - b) Long travel distances from nearest major city
 - c) Waste disposal
- 4) JUDs/BODs which will drive construction scheduling