



**CYPRESS**  
In-Line Inspection

# Cypress In-Line Inspection Turnkey Pipeline Services

**Critical airport fuel terminal required a full integrity inspection to assess the condition of a jet fuel pipeline within a short period of time**

**Challenge:**

- Customer required an integrity company offering an array of services to fully inspect a jet fuel pipeline within a prescribed timeline
- State and Federal rules required strict safety and environmental controls

**Solution:**

- Utilized the full Cypress suite of services to provide pump-filtering, cleaning/gauge pigs, API-570, Sub-centimeter AGM Survey and Tracking, and Ultra-High Definition MFL In-Line Inspection

**Result:**

- Successful inspection of the jet fuel pipeline on-time, safely, and IAW environmental guidelines
- Restored pipeline in its original state with no significant fuel waste and ready for base fueling needs

*"Best and cleanest operation in my 20 years at this terminal" – CHEVRON*

*"Would like to commend Cypress for executing a flawless and professional pipeline telemetry project." - USACE*  
*"Great job! Zero spills, zero injuries. Win, win! Great working with everyone... truly professionals." – DLA*

**Background**

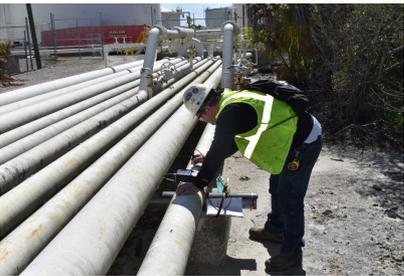
The US Army Corps of Engineers (USACE) through the Defense Logistics Agency (DLA) needed to execute a pipe wall thickness survey on an existing bulk fuel transfer line at MacDill Air Force Base. The existing transfer line is 8-inch single-wall carbon steel constructed in 1950; this line runs 4,225 feet between the Chevron Fuel Terminal and the Defense Fuel Support Point. MacDill AFB is an active United States Air Force installation located 4 miles south-southwest of downtown Tampa, Florida. The "host wing" for MacDill AFB is the 6th Air Refueling Wing, assigned to the 18th Air Force of the Air Mobility Command. With a total force of more than 689,000 personnel, air force personnel work to support all aspects of airpower, which includes five core missions: air superiority, global strike, rapid global mobility, intelligence, surveillance and reconnaissance, and command and control. Airpower also requires people and resources dedicated to unit readiness, base infrastructure and talent management. MacDill AFB's mission is "Unmatched Air Refueling and Installation & Mission Support". At Cypress In-Line Inspection, we share a similar vision: Mission Focused, Valued Personnel! It's no wonder Cypress was selected to execute this turnkey pipeline integrity inspection with its multiple service requirements and execution excellence standards.



**The Problem**

In order to meet the inspection date requirements based on federal and state compliance mandates, USACE needed to find an integrity company that was able to receive the jet fuel pipeline system and perform the product flow and inspection operations in a very short amount of time and return the system back to normal operating standards for aircraft mission readiness. All aspects of the project required expedited deliverables without compromise to the quality, safety, and environmental elements of the scope.





### The Solution

Cypress In-Line Inspection fulfilled project scope requirements through their pumping and filtering services, cleaning and gauging pig operation, API-570 piping inspection, sub-centimeter AGM survey, and its EcoVision™ Ultra-High Resolution In-Line Inspection Magnetic Flux Leakage (MFL) tool system, true turnkey integrity service capabilities for a critical project.

Proper planning and coordination were key to the successful completion of this project. Cypress, in partnership with the prime contractor (KNK Engineering), worked with all levels of USACE, DLA, and Chevron team members to stage all the resources, technology, machinery, and support equipment without disruption to their respective day-to-day operations. The jet fuel line was taken out of operation for a finite amount of time and isolated from the terminal in order to clean, gauge, and perform all integrity inspections. Platform scaffolding was set up at the launcher and receiver trap areas to prevent contact to the pipeline system and position the Cypress equipment to safely work around the five-foot trap heights. Safety Job Safety Analysis meetings were conducted daily to ensure all crews were properly focused on potential hazards and the criticality of working safely together with the internal and external team members.

Once all equipment was rigged up, jet fuel was transferred to the launch terminal to the assigned frac tanks to ready the cleaning and gauging pig operations. In parallel with the rig up, the API-570 inspection was conducted to maintain the safety and mechanical integrity of the pipeline; also, the sub-centimeter AGM survey was completed during the cleaning and gauging pig operation. After all preliminary actions were completed and the pipeline feasibility was complete, it was time to execute the in-line inspection MFL tool. The EcoVision™ UHR ILI MFL combo tool (corrosion + geometry + IMU) negotiated multiple 45°-90° 1.5D bends and traversed the pipeline with ease and success. After the ILI run, equipment was de-rigged and all resources demobilized; the sites and fuels were restored to their original state and routed back to the designated storage tank.

### Cypress ILI Turnkey Capabilities:

- In-Line Inspection Tools & Services
- Non-Destructive Examination
- Inspection & Integrity Services
- Water Treatment & Hydrocarbon Recovery Services

### Results from the Project

The turnkey pipeline inspection was successfully executed on time, safely, and without impact to the environment, attributed to the quality of Cypress personnel, technology, work ethic, expertise, and external agency cooperation. With the proven multiple service capability that Cypress In-Line Inspection offers, the value provided to the Energy and Oil & Gas industries is unlimited. We remain solutions-driven and safety-conscious with the highest degree of qualitative responsiveness. Cypress In-Line Inspection remains ready to serve your pipeline integrity needs via multiple or singular services. We are Mission Focused!

