

IMPROVING SITE INSPECTIONS TO BOOST EFFICIENCY AND SAFETY

Fluor Hanford uses 360° video to help decommission nuclear facilities



With 360°, full motion, interactive videos from Immersive Media, Fluor Hanford can conduct site Immersive Video Camera inspections more efficiently and safely than ever before.

Fluor Hanford was tasked with the decades-long restoration effort at Hanford Nuclear Reservation. The company sought to improve the site inspections that must occur before huge, water-filled basins can be dismantled. In doing so, it improved the efficiency and safety of Fluor Hanford’s decommissioning activities.

A POTENTIALLY DANGEROUS RELIC

Hanford Nuclear Reservation was established in 1943 as a part of the Manhattan Project. For more than thirty years, it was a prominent producer of nuclear munitions for the United States and a symbolic institution of the Cold War. Today, Hanford is not only a contaminated relic of the past; it is also the focus of the world’s largest environmental cleanup project.

“IMMERSIVE MEDIA’S IM ONSCENE GIVES THE CREW OF THE KE BASIN D&D PROJECT A MAJOR ADVANTAGE IN THEIR REMEDIATION EFFORTS... THAT TRANSLATES INTO BOTH RISK AVERTED AND MONEY SAVED.”

— John Beam, Training Specialist, Fluor Hanford

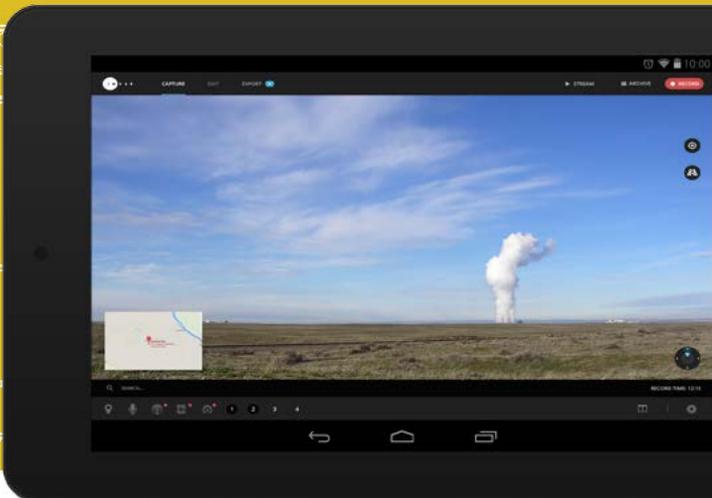
Previously, Fluor Hanford employees would enter the site and take as many photographs as possible for inspection purposes. But with such a large and complex facility, standard photography left unavoidable gaps in the forensic record. And when questions or concerns arose, Fluor Hanford employees had to re-enter the contaminated site to find answers. Fluor Hanford needed a more comprehensive, efficient and safe way to document and inspect the KE Basins.

CAPTURING INCREASED EFFICIENCY

After trying 360° still imagery to document and inspect Hanford facilities, which was too labor intensive and provided inadequate coverage, Fluor Hanford sought the technologies and services of Immersive Media. The world leader and only end-to-end provider of 360°, geospatially referenced video data, Immersive Media offered a solution that significantly improved Hanford decommissioning efforts.

IMMERSIVE MEDIA'S 360° SYSTEM PAIRS VIDEO WITH EXISTING FLOOR PLANS, BLUEPRINTS, MAPS AND OTHER DOCUMENTATION

for comprehensive inspections and virtual tours. Users can jump to the associated video footage at the touch of a button.



Before the water barrier was removed from a basin, Fluor Hanford employees conducted a walkthrough using a 360SA camera system. Immersive Media's flagship product, this system captures high-resolution video from every direction simultaneously. The 360° video footage was later paired with floor plans, demolition blueprints, walkthrough notes and other documentation as part of Immersive Media's software integration solution.

Fluor Hanford engineers and project planners had full viewing control of the videos and quick access to critical data. They were able to click & drag on the video screen to look in any direction and inspect any detail, even while the video was playing. And with integrated map data, users could jump to the associated video footage of a specific area, demolition point or walkthrough note at the touch of a button. As a visual intelligence tool, Fluor Hanford leaders said the Immersive Media system is unrivaled.

A COUP IN CONTAMINATION CLEANUP

With 360°, full motion, interactive videos, Fluor Hanford compiled a complete forensic record of Hanford's KE Basins and other infrastructure facilities. The Immersive Media videos helped engineers and project planners conduct detailed site inspections more efficiently and safely than ever before.

"Immersive Media's 360SA gives the crew of the KE Basin D&D Project a major advantage in their remediation efforts," said John Beam, Training Specialist at Fluor Hanford. "It is a user-friendly tool that allows us to quickly see what we need without having to go back inside the contamination area each time a new question comes up. That translates into both risk averted and money saved. We're looking forward to having the same functionality in many other areas of the Hanford Site."

Hanford Nuclear Reservation was

established in 1943 as a part of the Manhattan Project. For more than thirty years, it was a prominent producer of nuclear munitions for the United States and a symbolic institution of the Cold War. In the modern era, Hanford is not only a contaminated relic of the past; it is also the focus of the world's largest ongoing environmental cleanup project.

Under contract with the United States Department of Energy, Fluor Hanford was tasked with the decades-long restoration effort at Hanford. This includes dismantling former nuclear processing facilities, cleaning up contaminated groundwater, maintaining infrastructure facilities and providing site security.



1700 Main St
Washougal, WA 98671
360.718.5255
info@immersivemedia.com

WWW.IMMERSIVEMEDIA.COM