

CSA Laser Scanning and 3D Technology

US and Foreign Sites



List of Nuclear Power Plants Where CSA Laser Scanning (PanoMap®) and 3D Technologies (Plant/CMS™) Are Used

| Plant Name | Unit (S. Unit = Single Unit Plant) | PanoMap Laser Scanning | Plant/CMS 3D Modeling | Plant Name | Unit (S. Unit = Single Unit Plant) | PanoMap Laser Scanning | Plant/CMS 3D Modeling |
|--------------------|--|------------------------------|--------------------------|---------------------|--|------------------------------|--------------------------|
| Arkansas One | Unit 1 | Y | | Millstone | Unit 3 | Y | |
| Beaver Valley | Unit 1 | Y | Y | Monticello | S. Unit | Y | |
| Beaver Valley | Unit 2 | Y | Y | Nine Mile Point | Unit 1 | Y | |
| Bellefonte | Unit 1 | Y | Y | Nine Mile Point | Unit 2 | Y | |
| Bellefonte | Unit 2 | Y | Y | North Anna | Unit 1 | Y | |
| Browns Ferry | Unit 1 | Y | Y | North Anna | Unit 2 | Y | |
| Browns Ferry | Unit 2 | Y | | Oconee | Unit 1 | Y | |
| Browns Ferry | Unit 3 | Y | | Oconee | Unit 2 | Y | |
| Byron | Unit 1 | Y | | Oconee | Unit 3 | Y | |
| Callaway | Unit 2 | Y | | Oyster Creek | S. Unit | Y | Y |
| Calvert Cliffs | Unit 1 | Y | Y | Palisades | S. Unit | Y | |
| Calvert Cliffs | Unit 2 | Y | Y | Palo Verde | Unit 1 | Y | Y |
| Catawba | Unit 1 | Y | | Palo Verde | Unit 2 | Y | Y |
| Catawba | Unit 2 | Y | | Palo Verde | Unit 3 | Y | Y |
| Chernobyl Plant | S. Unit | | Y | PBMR (South Africa) | S. Unit | | Y |
| Clinton | S. Unit | Y | | Peach Bottom | Unit 2 | Y | |
| Comanche Peak | Unit 1 | Y | | Peach Bottom | Unit 3 | Y | Y |
| Comanche Peak | Unit 2 | Y | | Perry | S. Unit | Y | |
| Crystal River | Unit 3 | Y | | Pickering | Unit 1 | | Y |
| DC Cook | Unit 1 | Y | Y | Pilgrim | S. Unit | Y | |
| DC Cook | Unit 2 | Y | Y | Point Beach | Unit 1 | Y | |
| Cooper Station | S. Unit | Y | | Point Beach | Unit 2 | Y | |
| Darlington | Unit 1 | | Y | Prairie Island | Unit 2 | Y | |
| Davis-Besse | S. Unit | Y | | Quad Cities | Unit 1 | Y | Y |
| Dresden | Unit 2 | Y | Y | Quad Cities | Unit 2 | Y | Y |
| Enrico Fermi II | S. Unit | Y | | R.E. Ginna | S. Unit | Y | |
| Farley | Unit 1 | Y | Y | River Bend | S. Unit | Y | Y |
| Farley | Unit 2 | Y | Y | Robinson Plant | S. Unit | Y | Y |
| FitzPatrick | S. Unit | Y | | St. Lucie | Unit 2 | | Y |
| Fukushima | S. Unit | Y | Y | Salem | Unit 1 | Y | Y |
| Grand Gulf | S. Unit | Y | | Salem | Unit 2 | Y | Y |
| Hamaoka | Unit 5 | Y | Y | San Onofre | Unit 2 | | Y |
| Hatch | Unit 1 | Y | | San Onofre | Unit 3 | | Y |
| Hatch | Unit 2 | Y | | Seabrook | S. Unit | Y | Y |
| Hope Creek | S. Unit | Y | | Sequoyah | Unit 1 | Y | Y |
| Indian Point | Unit 2 | Y | Y | Sequoyah | Unit 2 | Y | Y |
| Indian Point | Unit 3 | Y | Y | Shearon Harris | S. Unit | Y | |
| Jaslovske Bohunice | Unit 1 | | Y | Sizewell | Unit B | | Y |
| Jaslovske Bohunice | Unit 2 | | Y | South Texas | Unit 1 | | Y |
| Jaslovske Bohunice | Unit 3 | | Y | South Texas | Unit 2 | | Y |
| Jaslovske Bohunice | Unit 4 | | Y | V.C. Summer | S. Unit | Y | |
| Kashiwazaki Kahira | Unit 2 | | Y | Surry | Unit 1 | Y | |
| Kashiwazaki Kahira | Unit 3 | | Y | Surry | Unit 2 | Y | |
| Kashiwazaki Kahira | Unit 4 | | Y | Temelin | Unit 1 | | Y |
| Kashiwazaki Kahira | Unit 6 | | Y | Three Mile Island | Unit 1 | | Y |
| Kashiwazaki Kahira | Unit 7 | | Y | Three Mile Island | Unit 2 | | Y |
| Kewaunee | S. Unit | Y | | Tokai | S. Unit | Y | |
| LaSalle | Unit 1 | Y | | Ulchin | Unit 3 | | Y |
| Limerick | Unit 1 | Y | | Ulchin | Unit 4 | | Y |
| Limerick | Unit 2 | Y | | Vogtle | Unit 2 | Y | |
| McGuire | Unit 1 | Y | Y | Watts Bar | Unit 1 | Y | |
| McGuire | Unit 2 | Y | Y | Watts Bar | Unit 2 | Y | |
| Midland Plant | S. Unit | | Y | Wolf Creek | S. Unit | Y | Y |
| Millstone | Unit 2 | Y | | Yellow Creek | S. Unit | | Y |

PanoMap® and Plant/CMS™

Typical Projects:

- FWH, MSR Replacement
- RC Pump Motor Replacement
- Chillers Replacement
- Scaffolding Design Verification
- Pipe Slope Verification/Gas Voids
- Piping Insulation Replacement/
New Design Verification
- Alloy 600 Mitigation
- Permanent Shielding Design
Verification

Benefits:

- Cost Reductions through
Better Planning
- Work Control Efficiency and Quality
- Accurate, Remote Measurement
and Dimensioning
- Rework Minimization
- Dose Reduction through
Better Planning
- Direct Interface with Plant
Documents
- Regulatory Compliance Verification
- Reduced Need for Plant Walkdowns
- Removal Simulation and
Interference Verification

