

AREVA TMI Steam Generator Shipment

Project Facts

- Steam generators are like giant double boilers. Pressurized hot water from the reactor enters the steam generator and passes through thousands of small tubes, similar to hot water passing through a car radiator. The heat from inside the tubes is transferred to a second supply of water outside the tubes, which flashes into steam (the boiling point of water is 212 degrees). The steam is then sent through large pipes to spin the turbines and generator. The two supplies of water – inside and outside of the steam generator tubes – never mix.
- The new steam generators being transported to TMI are replacement components. They contain no radioactive materials.
- AREVA NP Inc. has researched multiple transportation options.
- AREVA has worked with local regulators to select the most feasible solution with the least impact on the communities. AREVA is working with these same regulators and local communities to protect infrastructure and the environment.
- AREVA's route engineering looks at structures, pavement, slope/incline, obstructions, overheads, traffic patterns, residents/businesses impacted and optimizes the route based on these factors.
- AREVA is working with local, state and federal agencies on permitting requirements.
- AREVA is working with a proven, experienced transportation company.
- The over-the-road configuration or transportation units are called self-propelled modular transporters.
- The transport is not planning to move on weekends.
- The top speed the transport will move is 3 miles per hour. It will be led by a police escort.
- AREVA is working with local environmental organizations to limit and restore environmental impact.
- For questions about installation, please contact Exelon Corporation's media relations department.

Project Timeline

- The transport is scheduled for early fall.
- AREVA anticipates a 20-day journey.

Weight

- The steam generator components weigh 1,020,000 lbs or 510 tons.
- The steam generator components plus transport weigh 1,651,000 lbs or 825 tons.
- There are a total of 26 pairs of axles in the configuration, broken down into 12-axle and 14-axle units that are connected with hydraulic lines.
- Weight per axle on the 14-axle unit is about 30,900 lbs or 15 tons.
- Weight per axle on the 12-axle unit is about 32,900 lbs or 16 tons.
- Distributing weight over a larger area minimizes risk for infrastructure damage.

Dimensions

- The over-the-road configuration is 153 feet long, 24 feet high and 17 feet 6 inches wide.
- The steam generator alone is 73 feet 5 inches long and 12 feet 7 inches in diameter, lying prostrate.

More about _____

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