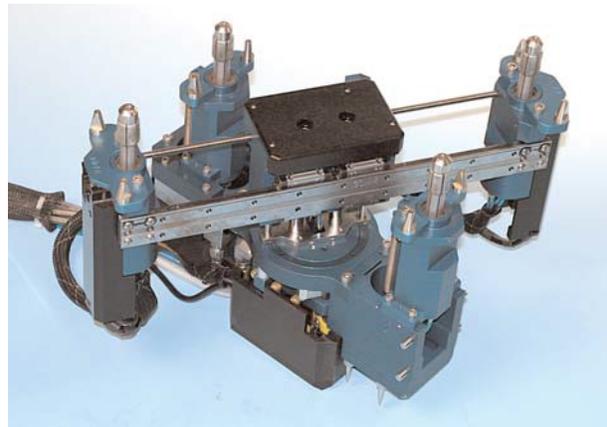# Pegasys™

Background

Westinghouse has a long history of providing state-of-the-art robotic systems to our customers to support primary side steam generator services. The current fleet of Westinghouse robots includes ROSA III™ and Pegasys™. ROSA was designed to allow inspection and repair tooling to be delivered from the same system, improving productivity and reducing radiation exposure. In order to adapt to the changing service needs of our customers, Westinghouse has developed the robot: Pegasys.

Description

Pegasys is a lightweight inspection robot that navigates using tube-walking technology. Using eddy current inspection techniques, it is designed to inspect steam generator tubes quickly, efficiently and reliably. The optimal use for Pegasys is full-scale eddy current inspection of replacement steam generators. Pegasys is also capable of delivering small-scale plugging, in-situ leak testing and stabilizer insertion operations.

Pegasys features include:

- Lightweight (28 pounds)
- Quick setup in containment
- Suitcase-size components
- Rapid and precise positioning
- Quick mounting to tubesheet with loading pole
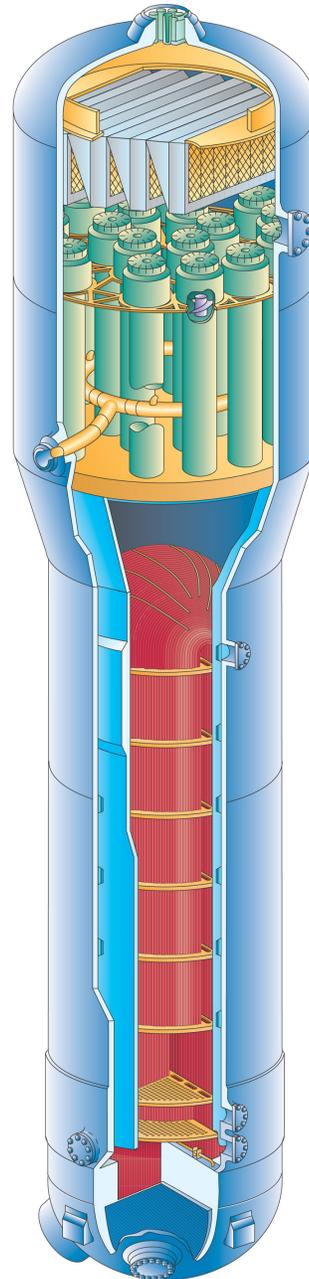- No exclusion zone

Pegasys robot

Pegasys robot

Westinghouse

- On-the-fly position verification without operator intervention

- Independent position tracking

- Simplified control system for high reliability and easy maintenance with minimal cabling interconnects required

- User control interface that is identical to existing ROSA systems

A new and improved feature is that two or more Pegasys robots can be placed simultaneously in one channel head of larger model generators for quick inspections.

Experience and Milestones

Pegasys was introduced in 2003. Because of its exceptional performance and reliability, Pegasys has experienced dramatic growth in eddy current and plugging applications worldwide.More than 50 Pegasys robots have been fabricated and used at more than 100 outages worldwide.also available through Westinghouse.

Steam Generator