

On-Board SCR trial using high speed main engine

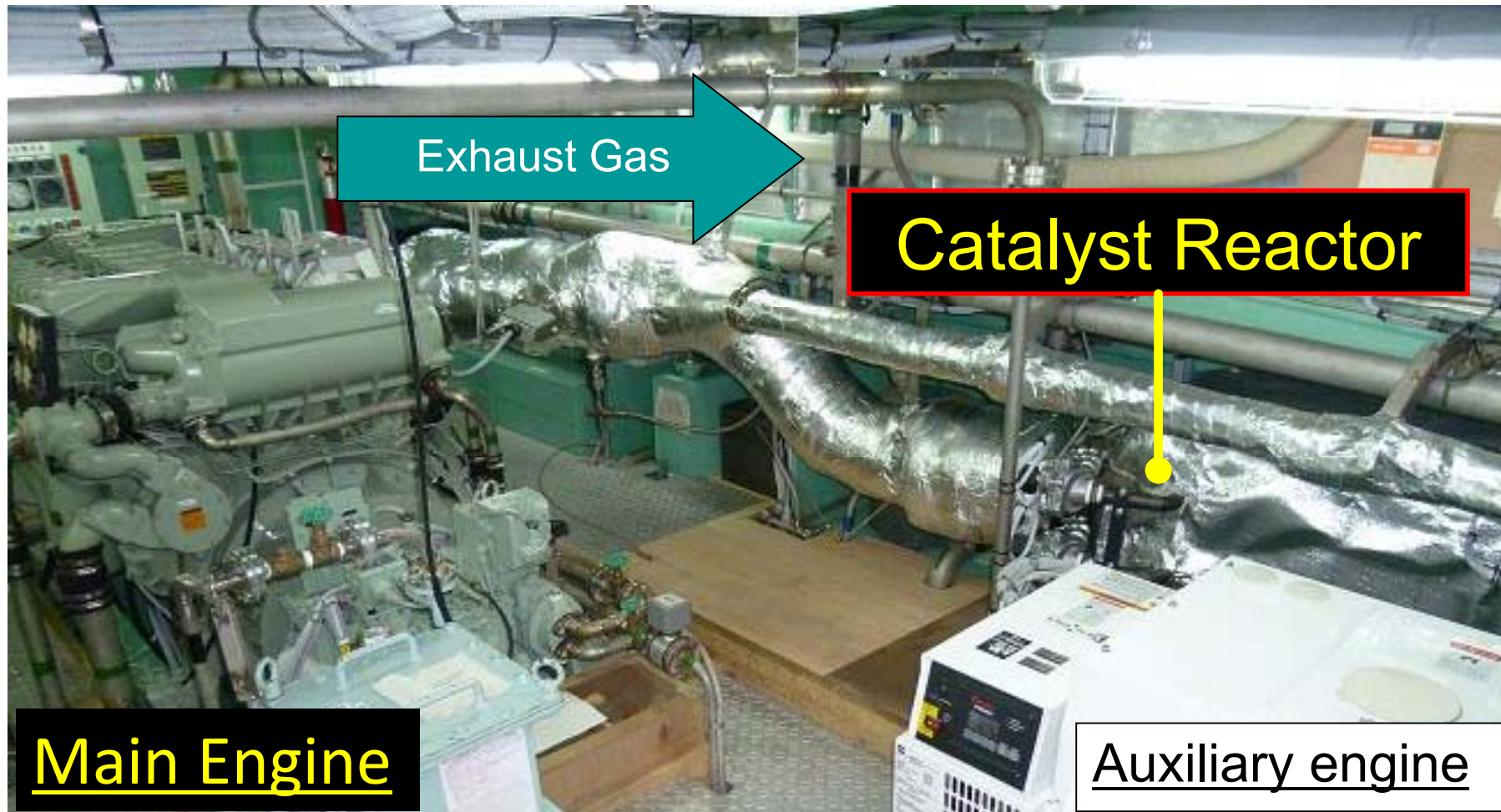
JAPAN

High-speed Main Engine

- Test Ship : 19 G/T Marine Training Vessel
- Test Engine : "6AYS-GT"
(Power output of 670kW, Rated speed of 1938min⁻¹)
- Fuel Oil : Marine Gas Oil



Layout on-board SCR system (Main Engine)



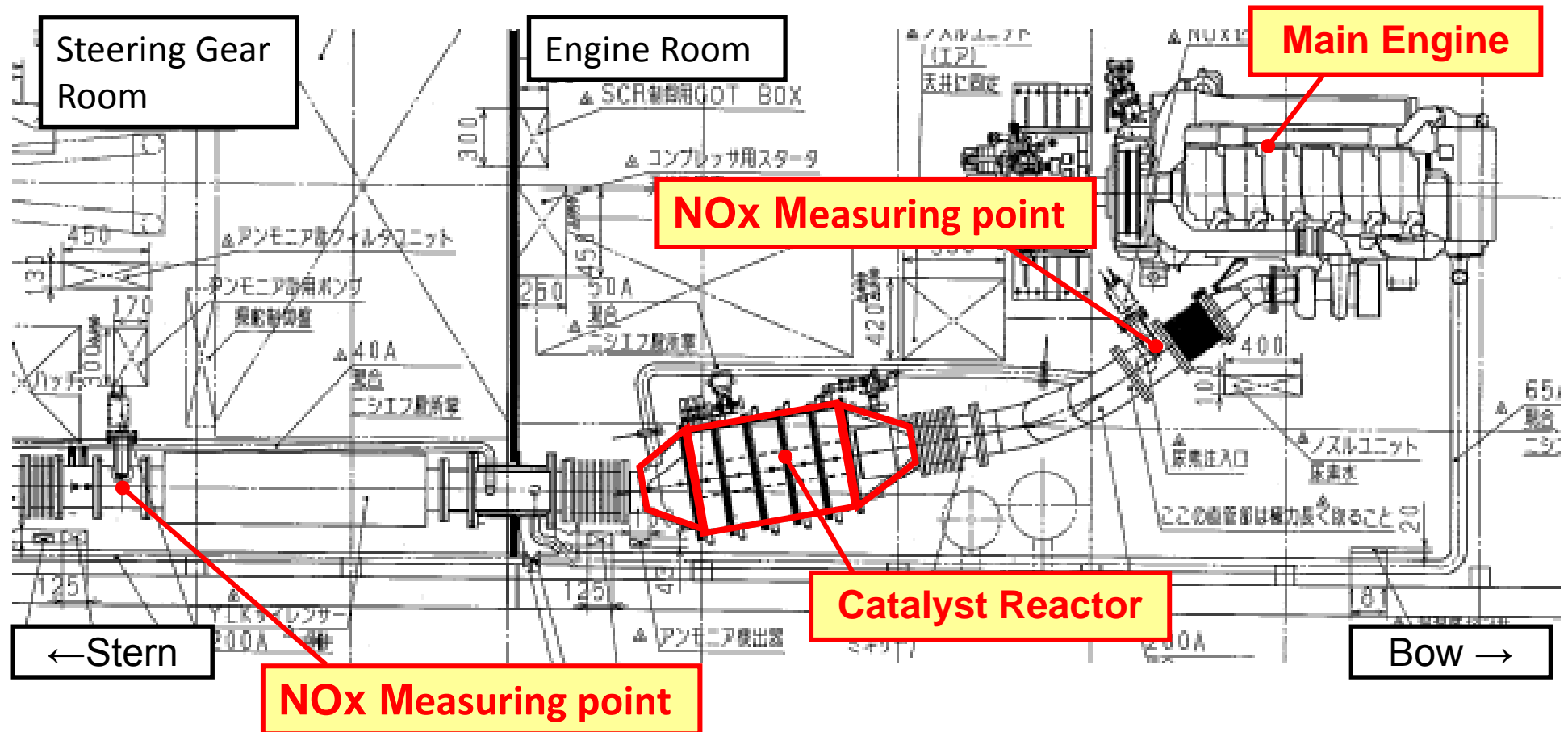
Main Engine

Auxiliary engine

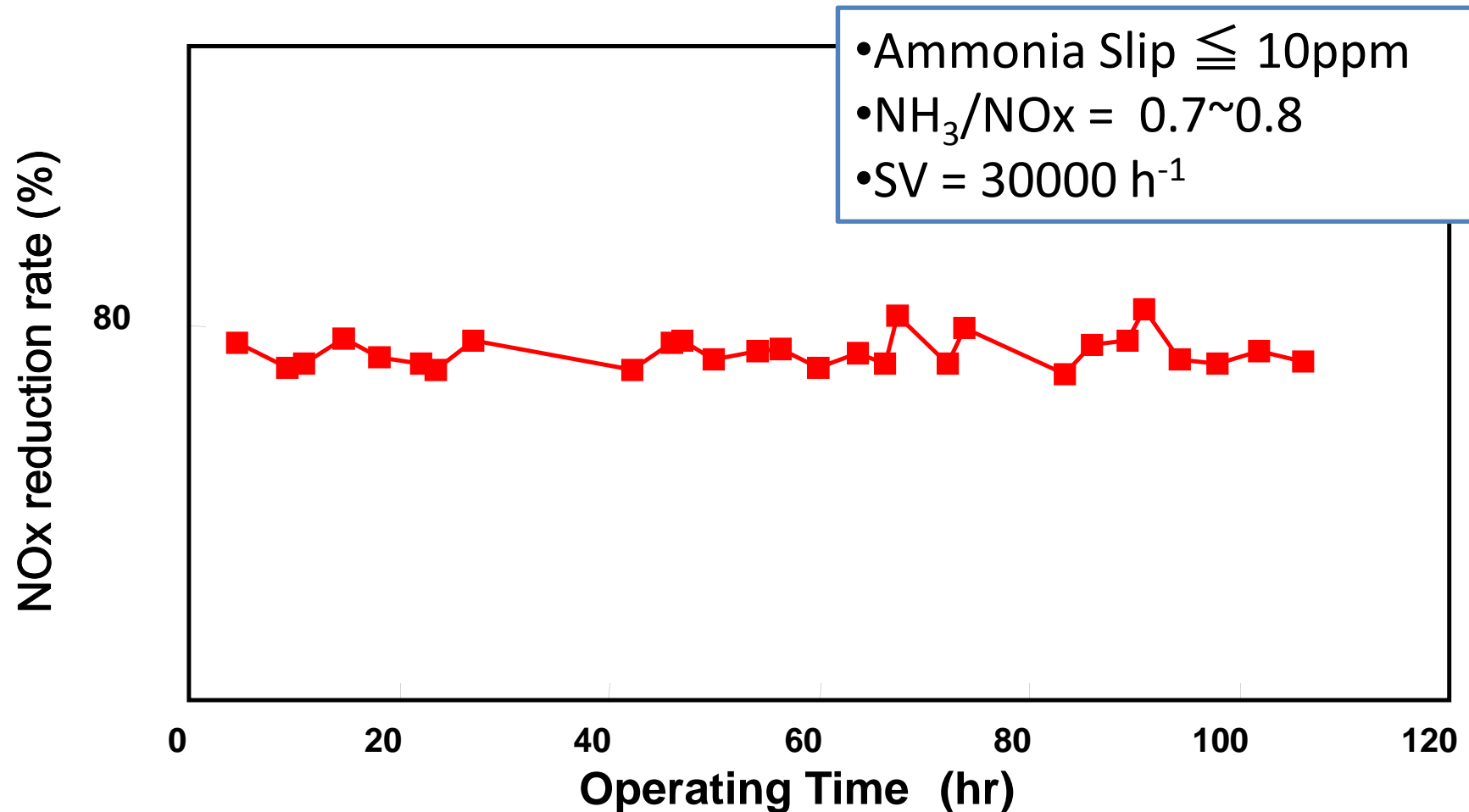
← Bow

Stem →

Layout of Catalyst and NOx Measuring point (Main Engine)



History of operation on-board SCR test (Main Engine)



In this on-board trial, denitration rate was not always kept above 80% because of operation at high load point. However, denitration rate calculated by E3 mode attained above 80%.