

Typical Demonstration Test Results: Cutting Capability by Laser Beam

- (1) CO Laser (by NUPEC)
- Cutting capability: 30 – 150 mm (SUS304)
 - Speed: 10 – 260 mm/min
 - Power: 21 kW
 - Conditions: underwater
- (2) CO Laser (by NUPEC)
- Cutting capability: 200 – 310 mm (SUS304)
 - Speed: 20 – 30 mm/min
 - Power: 21 kW
 - Conditions: in air
- (3) YAG Laser (by NUPEC)
- Cutting capability: 281mm (CS:80mm + Insulator:200 mm + Al:1.2 mm)
 - Speed: 100 mm/min
 - Power: 7.5 kW
 - Conditions: in air
- (4) YAG Laser (by NUPEC)
- Cutting capability: 40 mm (SUS)
 - Speed: 100 mm/min
 - Power: 7.5 kW
 - Conditions: underwater
- (5) YAG Laser (by NUPEC)
- Cutting capability: 3 mm (SUS lining)
 - Speed: 2500 mm/min
 - Power: 0.5 – 1.0 kW
 - Conditions: in air
- (6) Chemical Oxygen Iodine Laser (by RANDEC)
- Cutting capability: 23 mm (SUS304)
 - Speed: 0.5 mm/min
 - Power: 1.0 kW
 - Conditions: underwater

NUPEC: Nuclear Power Engineering Corporation

RANDEC: Radioactive Waste Management and Nuclear Facility Decommissioning Technology Center