



TECHPRECISION CORPORATION

RANOR

A Division of TechPrecision

Emerging Industries

Start Here



ISO 9001:2008

Turn-Key Manufacturing Solutions for Nuclear Energy

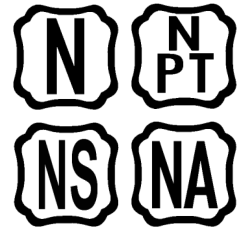
For more than 25 years, the team at RANOR has been fabricating and machining critical, large-scale components that cover the complete life cycle of nuclear power — from the internals of the reactor core and other critical primary components to outage equipment, canisters and casks for spent fuel storage.

As one of the few ASME N-stamp certificate holders with large-scale fabrication and the proper machining capabilities, we understand the extreme environments and demands placed on high-precision components used in nuclear power. Through our quality culture, we will continue to deliver precision fabricated and machined components for the nuclear industry, on time and within budget.

Our nuclear power customer base can count on us for the highest quality:

- Pressurizers and heat exchangers
- Accumulator and core make-up tanks
- Reactor core plates and core support components
- Reactor core barrels, assemblies, baskets, and shrouds

TechPrecision is your global partner in manufacturing solutions



USNRC Reg Guide 1.28
 USNRC Reg Guide 7.10
 10 CFR 50 Appendix B
 10 CFR 71 Subpart H
 10 CFR 71 Subpart G
 10 CFR Part 21
 ANSI N45.2

TechPrecision Corporation
 3477 Corporate Parkway - Ste 140
 Center Valley, PA 18034

Phone: 484-693-1700
 Fax: 484-205-2005
 www.techprecision.com

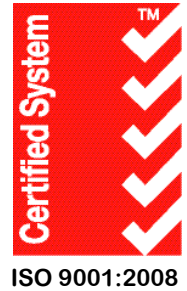


©2011 TechPrecision Corporation
 All Rights Reserved—Do Not Duplicate



Fabrication Shop Capability Summary

<u>Cutting</u>	Carbon steel:	Up to 22 inches thick
	Stainless steel:	Up to 7 inches thick
	Robotic:	Five axis
<u>Forming</u>	Three press brakes:	Up to 30 feet x 1,500 tons
	Three rolls:	Up to 3 inches thick x 12 feet wide
<u>Fabricating</u>	Maximum weight:	100 tons
<u>Welding</u>	Processes:	MIG, TIG, FCAW, SAW, GMAW
	Positioning:	Up to 35 tons
	Robotic welding:	Five axis, up to 5 tons
<u>Stress Relief Oven</u>	Maximum size:	10 feet x 11 feet x 35 feet
	Maximum weight, temp:	70 tons, 1500°F
<u>Blasting</u>	Fully enclosed blast room with grit recovery and movable cart	
<u>Painting</u>	Two fully enclosed paint rooms, primers and final coats to customer specification	



Machining Capacity Summary

Nine CNC Horizontal Boring Mills

	Six axis capability with multi-axis profiling capability
	Rotary tables
	Precision tolerances: .001 inch
	Minimum size: 14 inch cube
	Maximum size: 12 feet x 12 feet x 30 feet (larger with repositioning)
	Maximum weight: 100 tons

Seven CNC Vertical Boring Mills

	Three axis capability with multi-axis profiling
	Live axis heads
	Precision tolerances: .001 inch
	Minimum size: 14 inch diameter
	Maximum size: 240 inch diameter x 120 inch height
	Maximum weight: 40 tons

CNC Five Axis Gantry Mill*

	X - Axis = 480 inches
	Y - Axis = 168 inches (192 inches between the columns)
	Z - Axis = 120 inches (Ram stroke)
	Up to 312 inch x 168 inch diameter under the rail
	Two axis detachable, programmable milling head
	Maximum weight: 100 tons
	<i>* Gantry mill will be online September 2011</i>

Ancillary Machining Department

	CNC vertical machining center (30 inch x 60 inch)
	CNC Chucker style lathe (10 inch chuck)
	CNC — Bridgeport
	Manual lathe & mills
	Automatic surface grinder (18 inch x 24 inch)
	Full complement of tooling and attachments

Assembly, Inspection, Testing and QA Summary

<u>Dimensional Inspection</u>	Mechanical and laser
<u>Mechanical Assembly</u>	Shop assembly (up to 100 tons) and clean room assembly (up to 5 tons)
<u>NDE</u>	Radiography, ultrasonic (flaw detection and thickness gauging), magnetic particle, liquid penetrant, and visual weld inspection
<u>Testing</u>	Load testing (up to 400 tons,) hydrostatic pressure testing, helium leak vacuum testing (10 ⁻⁹), and complete system performance testing
<u>Quality</u>	ISO 9001:2008, ASME Code Sec III-Div 1, Sec III-Div 3 (N, NA NPT, NS,) Sec I/VIII-Div 1, B31.1 (S, PP, U), NQA-1 compliant, nuclear safety related, MIL-Q/I/STD, NAVSEA



TECHPRECISION

CORPORATION

TechPrecision Corporation
 3477 Corporate Parkway - Ste 140
 Center Valley, PA 18034
 Phone: 484-693-1700
 Fax: 484-205-2005
www.techprecision.com