

Technical Facts – Indian Point 3 Plant specific information

Capacity:	
Rated Thermal Power	3188 gross megawatts
Net Electrical Rating	1051 megawatts
Reactors:	
Type	Westinghouse 4 loop pressurized water reactor (PWR)
Coolant	Water
Moderator	Water
Coolant Pressure	2235 pounds per square inch
Operating Temperature	567 degrees F
Heat Output	10,898,865,000 BTU's per hour
Fuel Core:	
Pellets:	
Material	Uranium dioxide (UO ₂)
Enrichment	4.4 to 4.95 % U-235
Length	0.60 inches
Diameter	0.3659 inches
Pellets per Fuel Assembly	Approx. 48,960
Total Pellets in Core	Approx. 9,400,000
Fuel Rods/Fuel Assemblies:	
Material	Zirlo
Cladding Thickness	0.0243 inches
Outside Diameter	0.422 inches
Active Length	144 inches
Rods (with fuel) per Fuel Assembly	204
Number of Fuel Assemblies	193
Control Rod Assemblies:	
Neutron Absorber	Silver-Indium-Cadmium
Shape	Cylindrical Rods
Assembly Length	12 feet
Number of Control Rod Assemblies	53
Reactor Vessel:	
Material	Stainless steel clad low alloy steel
Inside Diameter	14 feet 5 inches
Height	43 feet and 10 inches
Design Pressure	2500 pounds per square inch
Containment:	
Material	Reinforced concrete with a carbon steel liner
Height	Approx. 215.5 feet
Diameter	Approx. 135 feet
Wall Thickness	3.5 to 4.5 feet
Design Pressure	47 pounds per square inch
Generator :	
Generation Voltage	22,000 volts
Rotation Speed	1,800 rpm
Condenser Cooling :	
Type	Once through heat exchanger
Cooling Source	Hudson River
Volume of Cooling water	840,000 gallons/minute