### POWER STATION KEY

- Control equipment room. 2. Computer room. 3. Computer maintenance
- Control room.
- 5. Shift supervisor's office. Recirculated cooling water23. Reactor.
- system valves. 7. Reactor containment building. 25. Inlet feeders.
- 8. Main steam pipes. Steam generators.
- 10. Main crane. 11. Pressurizer.
- 12. Feedwater pipes. 13. Bleed condenser.
- Shield cooling system tank. 15. Vent system equipment.
- Heat transport pumps. Shutdown cooling system.

# 18. Pressure and inventory

Moderator system. 20. Sump.

24. Outlet feeders.

- 22. Shield tank extension.
- 40. Jib crane. 41. Rehearsal port. 26. Vapour recovery system. 42. Fuel loading mechanism.
- Purification system. 28. Annulus gas system. 29. Liquid injection shutdown system.
- 30. Shield door. 31. Equipment hatch. 32. Air lock. 33. Emergency core cooling

system pumps.

### 34. Emergency core cooling heat 52. Deaerator. exchangers.

- 35. Water and accumulator tanks. 54. Reserve feedwater tank. **36.** Modular construction units. **55.** Elevator. 21. Reactivity mechanisms deck. 37. Fuel handling system crane. 56. Auxiliary boiler feed pump.
  - 38. Outlet vault shield door. 39. Fuel handling machine.
  - 43. Shield cooling system. 44. Irradiated fuel storage bay. 45. Defective fuel carousel. 46. Pond bridge crane.
  - 48. Maintenance building. 49. Diesel generator building. 50. Turbine building. 51. Turbine building crane.

- 53. Deaerator storage tank.
- 57. Air receivers. 58. Boiler feedwater pumps.
- 59. Air dryer. 60. Steam chest. 61. High pressure turbine.
- 62. Low pressure turbines. 63. Generator. 64. Bus ducts.
- 47. Basket module storage area. 66. Separator. 67. Condenser.
- 65. Reheater.
  - 68. Reheater drain tank. 69. Lube and seal oil tank. 70. Floor opening.

Reactor	
Type	Horizontal pressure tube
Coolant	Pressurized heavy wate
Moderator	Heavy wate
Number of fuel channels	232
Fuel	
Fuel	Compacted and sintered natural UO2 pellets
Form	Fuel bundle assembly of 37 elements
Length of bundle	
Outside diameter	102.4 mm
Bundle weight	23.5 kg (includes 19.1 kg U
Bundles per fuel channel	12
Heat transport system	
Number of steam generators	
Steam generator type	Vertical U-tube with integral steam drum and preheate
Number of heat transport pumps	
Heat transport pump type	Vertical, centrifugal, single suction, double discharge
Reactor outlet header pressure (gauge)	9.9MPa
Reactor outlet temperature	
Reactor coolant flow	5.3 Mg/s
Steam temperature (nominal)	260°C
Steam quality (minimum)	
Steam pressure (gauge)	
	1440.3 MW
	450 MWe



Atomic Energy of Canada Ltd CANDU Operations

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## SITE PLAN KEY

- Reactor building.
- b. Reactor auxiliary building. Main control room.
- Group 2 service building.

e. Diesel fuel oil tanks.

- Group 1 service building. g. Group 1 diesels.
- h. Fuel oil tanks.

- j. Turbine building.
- transformers.
- Group 2 pumphouse.
- Main output and unit service
- Station service

transformer.

- m. Switchyard.
- n. Administration building.
- Maintenance building.
- p. Water treatment plant. q. Group 1 pumphouse.
- s. Main cooling water. t. Group 1 raw service water.
- u. Cooling water discharge. v. Group 2 raw service water. w. Group 2 raw service water
- discharge. ▲. Truck access.

