POWER PLANT

Technical data

Clad thickness

REACTOR COOLANT SYSTEM Reactor inlet temperatur Reactor outlet temperature

CONTROL RODS

STEAM GENERATORS

Total coolant volume

Liner thickness

Net electrical output

Number, type

Serial 6 flow arrangement

22 kV, 3 phase

Key to power station cutaway

- 1 Turbine building 2 250t bridge crane/50t aux
- 3 25t bridge crane/10t aux4 Air intake hood
- 5 Special tool room and workshop
 6 Heater bay surge tank
 7 Condensate polishing cation bed vessels
 8 Condensate filters
- 9 Exciter cooler
- 10 Generator
 11 Low pressure turbines
 12 High pressure turbine
 13 Moisture separator reheater
- 14 Deaerator
- 15 Deaerator storage tank 16 Low pressure feedwater 17 High pressure feedwater
- 18 Motor driven main feedwater
- 20 Oil storage room 21 Feedwater booster pump 22 High pressure feedwater heater23 Feedwater pump turbine
- exhaust duct

- 27 Load centre
- 30 Heater bay 31 HVAC room 32 Filter room ducting
- 34 Feedwater 35 Main steam
- 37 Main steam vents 38 Cable laying area 39 Diesel generator
 - 41 Inverter channel 42 Load centre
 - 43 Sump pump 44 Shutdown cooling heat
- 45 Motor driven seismic fire 19 Turbine driven feedwater pump 46 Diesel fuel storage tank 47 Fire water storage tanks 48 Component cooling water
- 49 Motor generator set 24 Low pressure feedwater heater 50 Hydrogen recombiner

25 Condenser 26 Bus ducts

Vertical U-tube, 2

- 29 Main steam stop valves
 - 56 Diesel generator exhaust57 Containment building58 Containment spray system 33 Primary auxiliary building 59 Crane rail 60 Polar crane
 - 61 HVAC duct 36 Component cooling surge tank 62 Operating floor personnel lock 63 Control element assembly
 - 64 Control element assembly 40 Emergency diesel generator **65** Pressuriser 66 Control element assembly
 - drive mechanism 67 Reactor vessel 68 Steam generators
 - mechanism air handling unit 70 Reactor coolant pumps 71 Incore instrumentation seal
 - 72 Refuelling pool 73 Reactor support structure 74 Reactor coolant piping (hot leg)

- 76 Incore instrumentation guide 51 Stairway 52 Control room 53 Viewing gallery 77 Reactor drain tank 54 Electrical equipment room 78 RCP lubrication oil collection 55 Access control building
 - 79 Emergency personnel lock
 - 80 Refuelling machine 81 Safety injection tanks 82 Fuel transfer system carriage
 - 83 Fuel building 84 Cask handling crane 85 Spent fuel handling machine 86 Fuel transfer tube 87 Fuel transfer system carriage
 - and upender (in fuel building) 88 Spent fuel storage pool 89 New fuel storage pit 90 Air cleaning units 91 Cask loading pit
 - 92 Cask decontamination pit 93 Spent fuel pool cooling heat 94 Shipping cask
 - 96 Refuelling water tank 97 Air handling unit
- 95 Fuel loading and unloading bay 98 Secondary auxiliary building 75 Reactor coolant piping (cold leg) 99 Radwaste building

