

# Advanced BWR

## Technical data

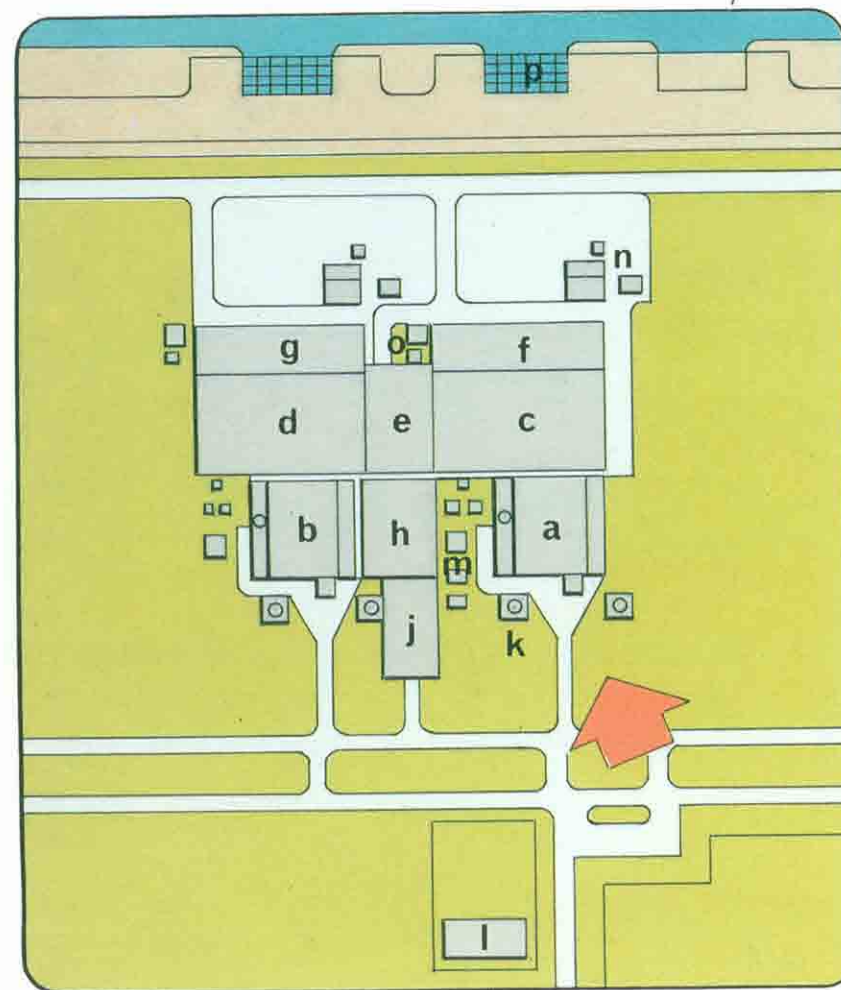
<b>Type</b>	Boiling water reactor
<b>Schedule</b>	Rock inspection to commercial turnover
<b>Power</b>	48 months
Net electrical output	1356 MWe
Gross thermal power	3926 MWt
<b>Reactor core</b>	
Active height	3.71 m
Active diameter	5.16 m
Number of fuel elements	872
Average power rating	196 W/cm
Average core power density	50.6 kW/litre
<b>Fuel assemblies</b>	
Fuel material	UO <sub>2</sub> , UO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub>
Average reload enrichment at equilibrium	3.2 per cent
Number of rods per assembly	62
Array	8 × 8
Fuel rod diameter	12.3 mm
Cladding material	Zircaloy 2
Cladding thickness	0.86 mm
Fuel discharge burnup (equilibrium)—reference case	32 000 MWd/t
<b>Control system</b>	
Number of control rods	205
Form of control rods	Cruciform
Neutron absorber	B <sub>4</sub> C
Control rod drive motion	Electric—fine motion Hydraulic—scram
Other control system	Burnable poison (Gd <sub>2</sub> O <sub>3</sub> )
<b>Primary coolant system</b>	
Type	Internal recirculation pump system
Operating pressure	73.1 kg/cm <sup>2</sup> a
Feedwater inlet temperature	215.5°C
Steam outlet temperature	287.4°C
Number of recirculation pumps	10
Recirculation mass flow (100% rated)	52 200 t/hr
<b>Reactor pressure vessel</b>	
Internal height	21 m
Internal diameter	7.1 m
Wall thickness minimum	174 mm
Materials	Low alloy steel/stainless steel cladding
<b>Containment</b>	
Type	Reinforced concrete containment vessel (steel lined)
Design pressure	3.16 kg/cm <sup>2</sup>
Height	36.1 m
Inside diameter maximum	29 m
<b>Turbine</b>	
Number	1
Maximum rating (@ 722 mm Hg)	1381 MWe
Speed	1500 rpm
Turbine inlet pressure	69.2 kg/cm <sup>2</sup>
Turbine inlet temperature	283.7°C

## The world's reactors No 89

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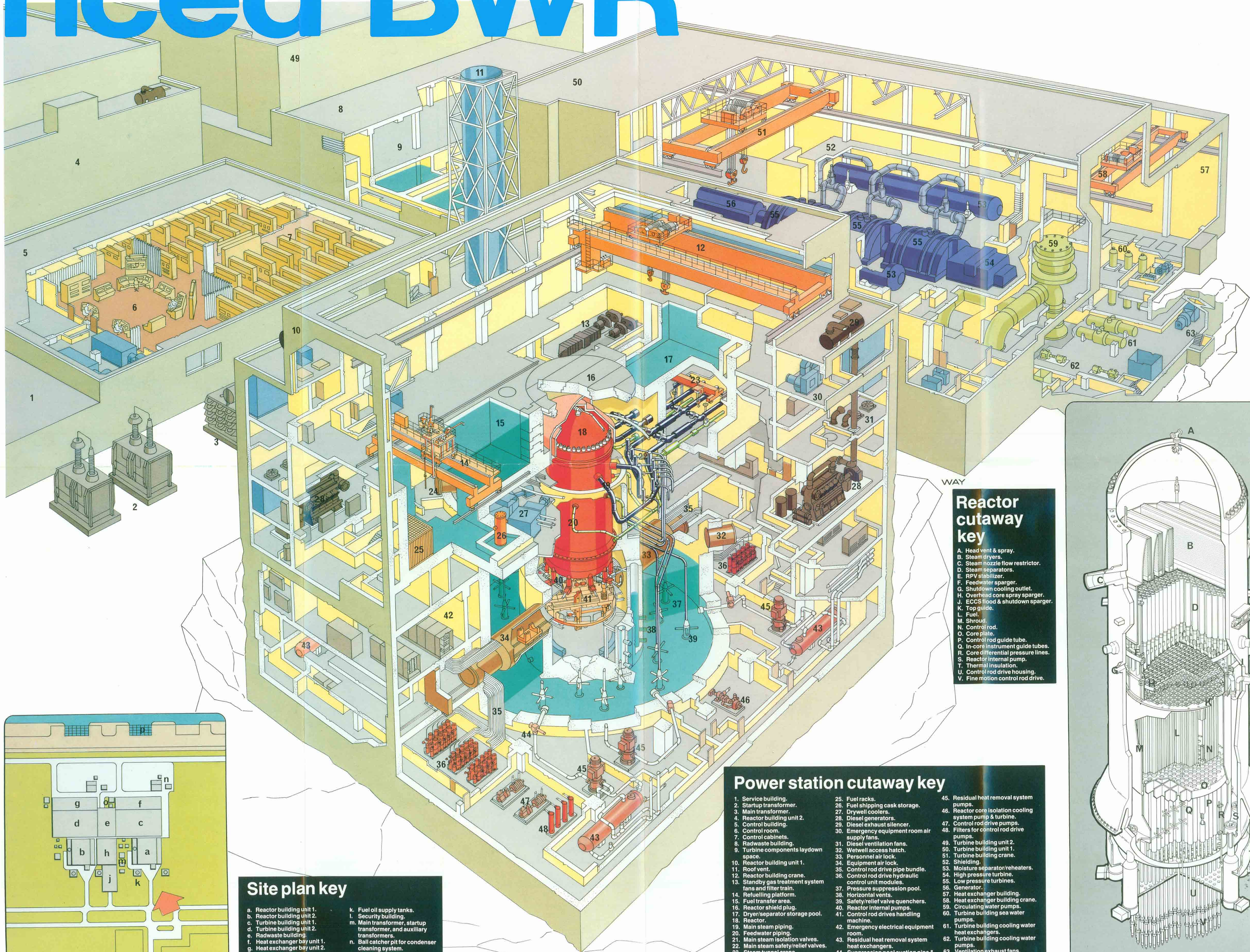
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## Site plan key

- a. Reactor building unit 1.
- b. Reactor building unit 2.
- c. Turbine building unit 1.
- d. Turbine building unit 2.
- e. Radwaste building.
- f. Heat exchanger bay unit 1.
- g. Heat exchanger bay unit 2.
- h. Control building.
- i. Service building.
- k. Fuel oil supply tanks.
- l. Security building.
- m. Main transformer, startup transformer, and auxiliary transformers.
- n. Ball catcher pit for condenser cleaning system.
- o. Bottled gas storage.
- p. Intake and screens.



## Reactor cutaway key

- A. Head vent & spray.
- B. Steam dryers.
- C. Steam nozzle flow restrictor.
- D. Steam separators.
- E. RPV stabilizer.
- F. Feedwater sparger.
- G. Shutdown cooling outlet.
- H. Overhead core spray sparger.
- J. ECCS flood & shutdown sparger.
- K. Top guide.
- L. Fuel.
- M. Shroud.
- N. Control rod.
- O. Core plate.
- P. Control rod guide tube.
- Q. In-core instrument guide tubes.
- R. Core differential pressure lines.
- S. Reactor internal pump.
- T. Thermal insulation.
- U. Control rod drive housing.
- V. Fine motion control rod drive.

## Power station cutaway key

- 1. Service building.
- 2. Fuel shipping cask storage.
- 3. Drywell coolers.
- 4. Diesel generators.
- 5. Diesel exhaust silencer.
- 6. Emergency equipment room air supply fans.
- 7. Turbine building fans.
- 8. Wetwell access hatch.
- 9. Personnel air lock.
- 10. Equipment air lock.
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- 663. Feedwater piping.
- 664. Main steam isolation valves.
- 665. Main steam safety/relief valves.
- 666. Steam tunnel crane.
- 667. Personnel hatch.
- 668. Fuel racks.
- 669. Fuel shipping cask storage.
- 670. Drywell coolers.
- 671. Diesel generators.
- 672. Diesel exhaust silencer.
- 673. Emergency equipment room air supply fans.
- 674. Turbine building fans.
- 675. Wetwell access hatch.
- 676. Personnel air lock.
- 677. Equipment air lock.
- 678. Control rod drive pipe bundle.
- 679. Reactor building unit 1.
- 680. Reactor building unit 2.
- 681. Reactor building crane.
- 682. Personnel air lock.
- 683. Dryer/separator storage pool.
- 684. Reactor.
- 685. Main steam piping.
- 686. Feedwater piping.
- 687. Main steam isolation valves.
- 688. Main steam safety/relief valves.
- 689. Steam tunnel crane.
- 690. Personnel hatch.
- 691. Fuel racks.
- 692. Fuel shipping cask storage.
- 693. Drywell coolers.
- 694. Diesel generators.
- 695. Diesel exhaust silencer.
- 696. Emergency equipment room air supply fans.
- 697. Turbine building fans.
- 698. Wetwell access hatch.
- 699. Personnel air lock.
- 700. Equipment air lock.
- 701. Control rod drive pipe bundle.
- 702. Reactor building unit 1.
- 703. Reactor building unit 2.
- 704. Reactor building crane.
- 705. Personnel air lock.
- 706. Dryer/separator storage pool.
- 707. Reactor.
- 708. Main steam piping.
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- 718. Diesel exhaust silencer.
- 719. Emergency equipment room air supply fans.
- 720. Turbine building fans.
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- 724. Control rod drive pipe bundle.
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- 789. Turbine building fans.
- 790. Wetwell access hatch.
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- 792. Equipment air lock.
- 793. Control rod drive