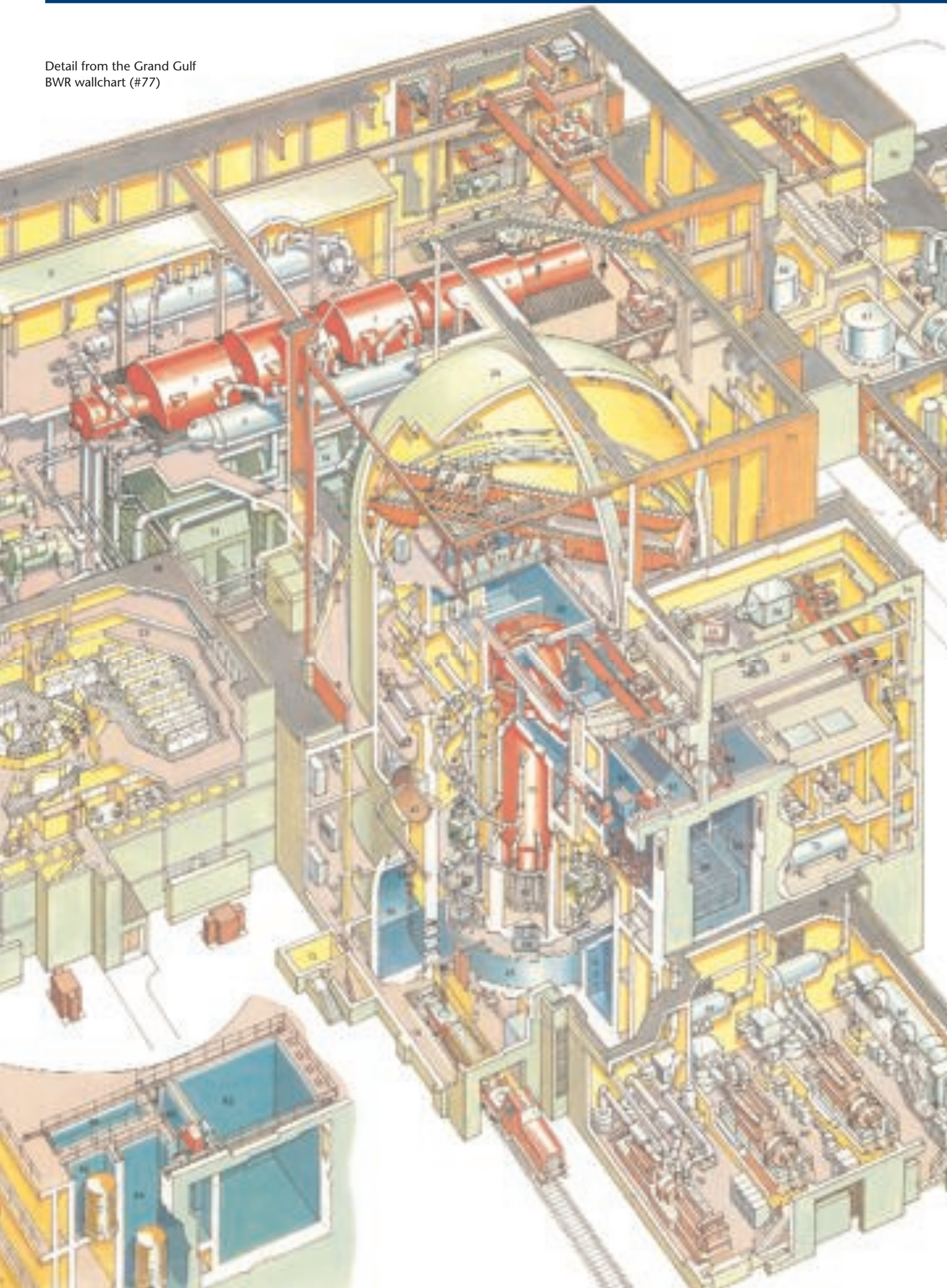


# POWER PLANT DESIGN

Detail from the Grand Gulf  
BWR wallchart (#77)



# The encore

**N**EI is republishing its entire back archives of reactor wallcharts. From the Fermi Pile (#2) to the EPR (#98), the series of 100 charts covers the entire history of the nuclear industry, worldwide. Every major type of reactor technology is covered: PWRs, BWRs, PHWRs, FBRs, HTGRs, Magnox, and others (remember the organic moderated reactors)?

Not all the designs were eventually built. Some of the more interesting non-starters include the

marine-based Atlantic Generating Station, #59, and the Argentinian Argos PHWR-380, #92, and the nearly-completed Alto Lazio 1&2 in Italy (#84). Some are still planned (SAFR, #91, PRISM, #94) or under construction, such as Korea's Shin-Kori 1&2 (#101).

Thanks to the efforts of university professor Ron Knief, (see p32) all of the wallcharts will soon be published by the University of New Mexico: [www.neimagazine.com/smallwallcharts](http://www.neimagazine.com/smallwallcharts). Those files print at good resolution up to double-page size (11x17, or A3); but lose detail when enlarged above that size.

So for optimal study, high-resolution scans of all the wallcharts are now available as either a high-resolution PDF file (\$99.99, or GBP62 each) or as a print (\$199.99, or GBP124 each, including postage). For more information, or to place an order, go to [www.neimagazine.com/wallcharts](http://www.neimagazine.com/wallcharts).

No.	Name	Type	Country	No.	Name	Type	Country
1*	BEPO- British Experimental Pile	Research graphite/air	UK	53	Phénix	FBR	France
2*	CPS- Chicago Pile	Research graphite/HWR	USA	54	Dounreay PFR	SFBR	UK
3*	NRX- National Research Experimental	Research FBR	Canada	55	Sequoyah	PWR	USA
4*	DIMPLE-Deuterium Moderated Pile, Low Energy	Research graphite/HWR	UK	56	Heysham	AGR	UK
5*	ZEUS-Zero Energy, Uranium System	Research FBR	UK	57	Fast Flux Test Facility (FFTF)	SFR	USA
6*	Calder Hall -PIPPA-Power & Plutonium Production	Magnox	UK	58	Gentilly 1	CANDU/BWR	Canada
7*	5-MW Atomic Power Reactor	Research graphite/LWR	Russia	59	(Atlantic Generating Station)	PWR	USA
8*	DIDO	Research HWR	UK	60	Douglas Point	PHWR/CANDU	Canada
9*	South of Scotland Electricity Board Station	Magnox	UK	61	Caorso ENEL IV	BWR	Italy
10*	Berkeley Power Station	Magnox	UK	62	Calvert Cliffs	PWR	USA
11*	Bradwell-on-Sea Power Station	Magnox	UK	63	Gentilly 2	PHWR/CANDU	Canada
12*	Dounreay Fast Reactor	FBR	UK	64	(Fulton)	HTGR	USA
13*	Argonne EBWR	Research BWR	USA	65	(Clinch River)	FBR	USA
14*	(RWE 1- Rheinisch-Westfalisches Elektrizitätswerk)	BWR	Germany	66	Biblis B	PWR	Germany
15*	LIDO	Research pool	UK	67	Fessenheim	PWR	France
16*	PLUTO	Research HWR	UK	68	SNUPPS [e.g. Wolf Creek/Callaway]	PWR	USA
17*	MERLIN	Research LWR	UK	69	(SNR-300)	FBR	Germany
18*	Marcoule G1	Research graphite/gas	France	70	Forsmark 3	BWR	Sweden
19*	Hinkley Point (A) Power Station	Magnox	UK	71	(Cherokee/Perkins)	PWR	USA
20*	NRU	Research HWR	Canada	72	Point Lepreau	PHWR/CANDU	Canada
21*	Halden	Research HWR	Norway	73	Super Phénix	FBR	France
22*	Latina	Magnox	Italy	74	Trillo	PWR	Spain
23*	Zenith	Research graphite/gas	UK	75	Fugen	LWCHWR	Japan
24*	Marcoule G2 and G3	Graphite/CO <sub>2</sub>	France	76	Gosgen	PWR	Switzerland
25*	OMRE	Research OMR	USA	77	Grand Gulf	BWR	USA
26	Dragon	HTR	UK	78	Heysham 2/ Torness	AGR	UK
27	BR3	PWR	Belgium	79	CANDU 950	PHWR/CANDU	Canada
28	NS Savannah	Research PWR	USA	80	French 600 MWe	PWR	France
29*	Dresden 1	BWR	USA	81	(PNPP1 - Philippine Nuclear Power Plant)	PWR	Philippines
30*	Yankee Rowe	PWR	USA	82	(Atucha 2)	PHWR	Argentina
31	Trawsfynydd	Magnox	UK	83	Sizewell B	PWR	UK
32	Windscale	AGR	UK	84	(Alto Lazio Unit 1 & 2)	BWR	Italy
33*	Enrico Fermi 1	Research FBR	USA	85	DWR/PWR 1300 [e.g. Isar 2; Emsland; Neckar 2]	PWR	Germany
34	Indian Point 1	PWR	USA	86	N4 PWR [e.g. Chooz B1&B2; Civaux 1&2]	PWR	France
35*	Piqua Nuclear Power Facility	OMR	USA	87	CANDU 300	PHWR/CANDU	Canada
36*	NPD- Nuclear Power Demonstrator	HWR	Canada	88	(KWU PWR 1000)	PWR	Germany
37*	Douglas Point	PHWR/CANDU	Canada	89	ABWR [e.g. Kashiwazaki-Kariwa 6&7; Hamaoka 5]	BWR	Japan
38*	(USSR Lenin)	VVER	Russia	90	Vandellos 2	PWR	Spain
39	Wylfa	Magnox	UK	91	(SAFR)	SFR	USA
40*	Oyster Creek	BWR	USA	92	(ARGOS PHWR-380)	PHWR	Argentina
41	Dungeness B	AGR	UK	93	Daya Bay/Guangdong	PWR	China
42	Winfrith	SGHWR	UK	94	(PRISM)	IFR	USA
43*	Hinkley Point B	AGR	UK	95	(AP600)	PWR	USA
44	Lingen	BWR	Germany	96	(CANDU 3)	PHWR/CANDU	Canada
45	(Marviken)	HWR	Sweden	97	System 80+ [e.g. Yongwang 3&4]	PWR	USA
46	St Laurent Des Eaux	AGR	France	98	(EPR) [e.g. Olkiluoto 3; Flamanville 3; Taishan 1&2]	PWR	
47	Hartlepool	AGR	UK	99	Kruemmel	BWR	Germany
48	Fort St. Vrain	HTGR	USA	100	Ulchin 3 & 4	PWR	Korea
49	Palisades	PWR	USA	101	Korean standard nuclear plant [e.g. Ulchin 5&6]	PWR	Korea
50	Oconee	PWR	USA	102	KSNP+ [e.g. Shin-Kori 1 & 2; Shin-Wolsong 1 & 2]	PWR	Korea
51	Pickering	PHWR/CANDU	Canada	103	CANDU 6 [e.g. Gentilly 2; Point Lepreau 1]	PHWR	Canada
52	Oskarshamn 1&2	BWR	Sweden	104	(CANDU 9)	PHWR	Canada
				105	(Superphénix 2)	FBR	France

\*wallcharts only in black and white (reactors not yet built) [typical examples]