

Catalogue of the papers and correspondence of
Walter Charles Marshall, Kt CBE FRS
Baron Marshall of Goring (1932-1996)

VOLUME I

Introduction

Section A: Biographical – Section K: Non-textual media

By Anna-K. Mayer, Peter Harper and Timothy E. Powell

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W.C. Marshall
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Title: Catalogue of the papers and correspondence of Walter Charles Marshall
FRS (1932-1996), physicist

Compiled by: Anna-K. Mayer, Peter Harper and Timothy E. Powell

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Lady Marshall, Goring-on-Thames, on 11 February 2008.

OUTLINE OF THE CAREER OF WALTER CHARLES MARSHALL

Walter Charles Marshall was born in Rumney, Wales, on 5 March 1932, the youngest of three children. His mathematical talent manifested early and, if his recollections are anything to go by, in determined fashion. On his first day at primary school, aged just four-and-a-half, young Marshall insisted he wanted to do sums. At grammar school (St. Illtyd's College, Cardiff), he 'knew already [mathematics] was to be my career' (Personal records submitted to the Royal Society, F.36). In 1949 he left Cardiff with a Major County Scholarship to study at the University of Birmingham. He was the youngest undergraduate there at the time and, as his mentor, the eminent German émigré Rudolf Peierls later told him, 'the only undergraduate to go to Birmingham with the explicit plan, in advance, to take Peierls' Mathematical-Physics Honours Course' (*Ibid.*). Marshall graduated with first class honours in 1952, and took his PhD two years later (*Antiferromagnetism*, 1954).

That same year he was recruited into the Theoretical Physics Division of the Atomic Energy Research Establishment (AERE) at Harwell, recently incorporated into the newly formed United Kingdom Atomic Energy Authority (UKAEA). Initially assigned to the Plasma Physics Group, Marshall soon returned to his interest in condensed matter physics, developing it further during two periods of study leave at the University of California, Berkeley (1957-1958), and Harvard (1958-1959). Upon his return to Harwell he became Leader of the Solid States Theory Group and, in 1960, Head of the Theoretical Physics Division. Under Marshall the Division continued effective collaborations with theoretical physicists at Oxford, among them Peierls, who had relocated from Birmingham. It also attracted large numbers of visiting scientists, particularly from the US, where Marshall had made a profound impression, and where he continued to spend sabbaticals, notably at the Oak Ridge National Laboratory, Tennessee (1962-1963).

The success of the Theoretical Physics Division shifted Marshall's career onto a new trajectory, from pure science to the administration of applied science and technology. By the 1960s many of the scientific objectives that had led to the establishment of the Harwell laboratory in 1946 had been met and the future direction of the facility required new definition. Harold Wilson's new Labour government meant to align Britain's public sector with its goals for industry. In this context Marshall began to envisage the future of AERE Harwell as largely dependent on the extent to which the laboratory would be able to exploit the technological spin-off from its nuclear research and development ('Harwell changes course', *The New Scientists*, ed. D. Fishlock, Oxford 1971, pp. 55-71). Under Marshall (he

was promoted to Deputy-Director in 1966 and to Director in 1968), Harwell diversified its aims and objectives to encompass an industrial programme that by 1976 accounted for over half of the facility's overall programme. Marshall's role in this process – his 'contribution to the organisation, utilization and application of science' – was recognised by the Institute of Physics with an award of the Glazebrook Medal in 1975. That same year he was promoted to Deputy-Chairman of the UKAEA.

A concern that increasingly occupied Marshall in the wake of the oil crisis of the early 1970s was long-term energy supply. In 1974 he was appointed Chief Scientist to the Department of Energy, on a part-time basis, a remit he pursued in a variety of arenas. He chaired the Study Group investigating how combined heat and power (CHP) could be linked to district heating schemes, and he inaugurated the Energy Technology Support Unit (ETSU) at Harwell, which investigated energy options, encouraged energy conservation in industry and explored renewable sources of energy. But above all he became convinced that a growing nuclear component would be essential for a stable energy policy in the UK. This belief was not shared by the then Energy Secretary Tony Benn MP, and by 1977 Marshall was abruptly asked to return to his duties in the UKAEA full time.

Public rehabilitation was not far off. In Margaret Thatcher, who became Prime Minister in May 1979, Marshall found a strong ally for his enthusiasm for nuclear power. As the new Chairman of the UKAEA (1981), it fell to him to coordinate the work of a new Task Force to sort out disagreements over the design for a 'British PWR', i.e. a Pressurised Water Reactor that complied with UK nuclear safety philosophies. The Task Force settled the design for Sizewell B. Marshall emerged from the process as an adept negotiator who could lead a divided and quarrelsome industry. In 1982 he was appointed Chairman of the Central Electricity Generating Board (CEGB), and received a knighthood. In the years to follow he became the public face of nuclear expansion and nuclear safety arguments. In one episode, he helped stage a crash test as part of a public demonstration that a nuclear waste flask would survive the impact of a rail crash (the memorable event took place on the Old Dalby Test Track in Leicestershire in July 1984). His subsequent efforts to 'keep the lights on' during the 1984-1985 Miners' Strike earned him a peerage (1985). Much of Marshall's time during his later years at the helm of the CEGB was taken up with repairing the image of nuclear power after the Chernobyl reactor accident in April 1986, and with advising the government on its plans to privatise the electricity supply industry. He wished to take the CEGB into the private sector in one piece and resigned in protest against the government's decision in November 1989 to abandon plans for the privatisation of the nuclear industry.

Following the Chernobyl accident Marshall had been quick to identify and publicize the design flaws of the reactor in question. By the autumn of 1988 he emerged as Chairman of a steering group to produce a charter for a new international organisation to promote worldwide collaboration between nuclear utilities. At the foundation of the World Association of Nuclear Operators (WANO) in May 1989, Marshall was elected Chairman of the Governing Board, a role he expanded following his

resignation from the CEGB six months later. Among other things he used his two terms in office to set up a peer review system for nuclear operators and a Users Group for Soviet Built Reactors that would allow operators in the former Soviet Union to collaborate in a non-political way. After stepping down as Chairman of WANO in April 1993, he continued on as WANO Ambassador, advising the Users Group and lobbying the West for financial and technological aid to improve reactor safety in the countries of the former Soviet Union. From 1991 onwards he also became active in a new syndicate of Lloyd's of London specialising in nuclear insurance, and he was co-opted as Western observer and participant ('Overseas Advisor') when a new think-tank-*cum*-laboratory, the Institute of Nuclear Safety (INSS), was set up by the Kansai Electric Power Company, Japan, in 1992. To use Marshall's own words, after his resignation from the CEGB he reinvented himself as an 'international nuclear guru' (Letters to Lord Sharp of Grimsdyke and Richard V. Giordano, both 23 March 1994, J.239).

Marshall received numerous honours and awards during his life. These included honorary degrees from a number of British universities and both the Maxwell and the Glazebrook Medals of the Institute of Physics. Overseas honours included Foreign Associateship of the National Academy of Engineering, US, Fellowship of the Royal Swedish Academy of Engineering Sciences, the 1985 American Henry de Wolf Smythe Nuclear Statesman Award and the International Award of the Canadian Nuclear Association (1991). Marshall was elected a fellow of the Royal Society in 1971. He received a CBE in 1973, a knighthood in 1982 and was elevated to the peerage as Lord Marshall of Goring in 1985. In 1984, he was made a Freeman of the City of London.

Upon taking his first job in 1954, he married Ann Vivienne Sheppard, who came from the same village. They had a daughter, Victoria Ann, and a son, Jonathan Charles. Marshall died on 20 February 1996.

The above summary is greatly indebted to D. Fishlock's and L.E.J. Roberts's account of Marshall's life and work, 'Walter Charles Marshall, CBE, Lord Marshall of Goring, 5 March 1932-20 February 1996', *Biographical Memoirs of Fellows of the Royal Society*, vol. 44 (1998), pp. 299-312.

DESCRIPTION OF THE COLLECTION

The collection spans nearly six decades 1949-2008, though the bulk dates from Marshall's years as Chairman of the CEGB, 1982-1989, and his subsequent activities to promote nuclear safety on an international level through WANO, the World Association of Nuclear Operators.

Section A, Biographical, presents interviews, profiles and some autobiographical material, notes on lectures from Marshall's time as a student at the University of Birmingham, 1949-1954, and diaries from his last year as Chairman of the CEGB (1989) to 1995. There are also address books and some photographs.

Section B, United Kingdom Atomic Energy Authority, documents Marshall's research and lecturing activities while at AERE Harwell. The material includes annotated typescripts of courses he delivered both in the US and at Harwell, 1959-1965, and a substantial series of notebooks, 1954-1965, in which he recorded discussions with colleagues, visits to research facilities and notes on literature covering various aspects of solid state physics. There is also briefing material relating to Marshall's testimony before the House of Commons Select Committee on Energy in February 1980, bearing on thermal reactor policy and nuclear industry organisation. Marshall's involvement in Harwell's evolution into a research service provider over the 1970s is represented in an account that appeared in the *Financial Times* in 1973.

Section C, Central Electricity Generating Board, represents Marshall's Chairmanship of the CEGB 1982-1989, including his resignation and aftermath. Of particular interest are his notes for meetings with successive Secretaries of State for Energy and the Prime Minister, 1983-1989, covering both the 1984-1985 Miners' Strike and the privatisation process of the electricity supply industry in the late 1980s. These are followed by a substantial body of reference material bearing on the latter and other topics. Two further series provide more documentation of the privatisation process. Marshall also accumulated an extensive collection of press coverage of the government's decision not to privatise nuclear power and his ensuing resignation from the CEGB.

Section D, Select Committee on Energy, details Marshall's testimony before the House of Commons Select Committee on Energy investigating the background of the Government's decision in November 1989 not to privatise the nuclear power industry. The material includes the report of the Committee, entitled 'The Cost of Nuclear Power', and response from the press, government and Marshall himself.

Section E, House of Lords, consists of Marshall's introduction to the House of Lords in 1985, his Maiden speech, and some correspondence and papers relating to bills before the House in the years to follow. This is not an extensive section as Marshall's professional commitments, first as Chairman of the CEGB, then on behalf of WANO, left him little time to attend the Lords.

Section F, Royal Society, another small section, chiefly documents Marshall's involvement in nominations for Fellowship from the 1970s to the 1990s. There also are papers relating to the work of the Society's Engineering, Technology and Industries Committee, of which he was a member 1983-1986, while some correspondence testifies to attempts on Marshall's part to deepen the Society's commitment to the public understanding of science and technology in Britain.

Section G, Papers and publications, chiefly represents Marshall's period as a theoretical physicist. This is documented in a series of annotated drafts of scientific papers and offprints, 1950s to early 1970s, including the original dividers used at Harwell to order and re-order Marshall's published research output. Some miscellaneous later publications are of a more popular nature.

Section H, Lectures, by far the largest section, forms a substantial record of Marshall's career as a public exponent of nuclear power and nuclear safety, 1968-1995. The material includes correspondence and drafts of lectures. During the 1980s, when Marshall had an entire team of writers and technical experts at his disposal as Chairman of the CEBG, this lecture material is visually particularly rich and often includes storyboards (in colour). The last quarter of this series allows insight into Marshall's take on the progress of WANO and his concern with the safety of nuclear power plants in the former Soviet Union.

Section J, Correspondence, consists principally of Marshall's outgoing correspondence during the last six years of his life, also recorded in three logbooks of his correspondence. In conjunction with the relevant portions of his lectures from the period, these testify eloquently to his engagement with WANO's safety mission. Other activities covered include his consultancy work for the nuclear insurance syndicate of Lloyd's of London and the Institute of Nuclear Safety (INSS) in Japan. Another small sequence includes incoming correspondence, much of it personal, from the period leading up to Marshall's resignation from the CEBG and the rebuilding of his life in the month that followed. There also is a little loose material from the 1970s and 80s, and some correspondence bearing on Marshall's plans for a life 'after' WANO.

Section K, Non-textual media, is the smallest section. It includes some lectures slides, a sound recording, and film footage recording 'operation smash hit' (a public test of nuclear flask resilience) and Marshall's immensely popular 'Garden Lecture'.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are grateful to Lady Marshall for making the papers available and for information on aspects of her late husband's archive; to Sue Connell (Archivist of the UKAEA) and Eric Jenkins (Manager of UKAEA Image Resources) for their generous help with image research and other matters; and to Colin Jones of the Library Services, University of Birmingham.

Anna-K. Mayer
Bath, 2009

SECTION A	BIOGRAPHICAL, A.1-A.52	1949-1998, n.d.
	A.1-A.7	BIOGRAPHICAL AND AUTOBIOGRAPHICAL
	A.8, A.9	BIBLIOGRAPHIES
	A.10-A.40	UNIVERSITY OF BIRMINGHAM
	A.41-A.50	DIARIES AND ADDRESS BOOKS
	A.51, A.52	PHOTOGRAPHS
A.1-A.7	BIOGRAPHICAL AND AUTOBIOGRAPHICAL	1971-1996
A.1	Obituaries <i>The Times</i> , 23 February 1996. <i>Guardian</i> , 23 February 1996. <i>Independent</i> , 26 February 1996. <i>?Daily Telegraph</i> [no further information].	1996
A.2	'Memorial speech' Announcement of death followed by 5pp typescript authored by Marshall and sent to the journalist R. Lindley on 5 January 1996. Also includes other biographical accounts. Marshall was cremated in Oxford on 1 March, following a funeral service at St Andrew's Church in South Stoke, Oxfordshire. Lindley delivered the memorial speech. He had recently made a television programme about Marshall's life.	1996
A.3	Personal record, compiled for the Royal Society	?1971

	See also F.36.	
A.4	Entries for biographical dictionaries Includes entries for Debrett's <i>People of Today</i> and <i>Who's Who</i> . Also includes a CV.	1993x1995
A.5-A.7	Interviews and profiles Includes interview 'Managing research in a government-funded laboratory' (<i>Enterprise</i> , Summer 1971, 10-13) and profiles in <i>Nature</i> (1975), <i>Nuclear Industry</i> (1989), <i>Nucleonics Week</i> (1990) and <i>New Nuclear Europe Worldscan</i> (1996). 3 folders.	1971-1996
A.8, A.9	BIBLIOGRAPHIES Includes listings from Marshall's time at Harwell, with finding aid of his publications (see Section G, Publications, with the original dividers at G.80). 2 folders.	1965x1998
A.10-A.40	UNIVERSITY OF BIRMINGHAM Contents of two loose-leaf binders with dividers. Notes on literature and lectures, with an overview on the first page. In original order. Marshall studied mathematical physics at the University of Birmingham, 1949-1952, obtaining first class honours. Two years later he completed his PhD under the supervision of the eminent émigré physicist Rudolf Peierls (<i>Antiferromagnetism</i> , 1954).	1949x1952
A.10-A.25	Binder 1 Divided up as follows: overview followed by 'Quantum Mechanics [Flowers]', 56pp foliated (A.10, A.11); '[Own	1949x1954

/...	Notes On] Halliday', 14pp foliated (A.12); 'W. Marshall', 5pp (A.13); '[Moon (Nuclear Physics)]', 14pp foliated (A.14); 'Cosmic Rays', 4pp foliated to 2, + 1p (A.15); 'Hydrodynamics [Peierls + Brown]', 50pp foliated + 1p (A.16, A.17); 'Electricity + Magnetism', 13pp foliated (A.18); 'Circuit Theory', 17pp foliated (A.19); 'Plane Waves', 18pp foliated (A.20); 'Magnetism', 11pp foliated + 2pp (A.21); 'Astro-Physics', 10pp foliated (A.22); 'Nuclear Physics' + 'Dr Walker', 25pp foliated (1-24 + 5a) (A.23); 'Classical Statistics', 14pp foliated + 2pp (A.24); and 'X-rays', 10pp foliated (A.25). 16 folders.	/...
A.26-A.40	Binder 2 Divided up as follows: 'Notes on Smythe' + 'Static Electricity', 5pp foliated (A.26); 'Magnetism', 2pp foliated + 1p; 'Solid State', 3pp foliated + 4pp; 'Cerenkov Radiation [Own]', 3pp (A.27); 'Second lecture by Prof. Burcham', 7pp foliated + 1p; 'Theorem of Bloch [Michael's Lecture]', 2pp (A.28); followed by various foliated and non-foliated sequences on relativity physics, spherical trigonometry, higher mechanics, etc. (A.29-A.40). 15 folders.	1949x1954
A.41-A.50	DIARIES AND ADDRESS BOOKS	1989-1995, n.d.
A.41-A.48	Diaries	1989-1995
A.41	'1989' Hardback appointments book, A4 size, with logo of the Central Electricity Generating Board embossed on the front cover. Turquoise cardboard.	1989
A.42	'1990' Hardback appointments book, A5 size, with the logo of National Power embossed on the front cover. Blue cardboard.	1990

A.43	'1991'	1991
	Hardback appointments book, A5 size. Black plastic.	
A.44	'1992'	1992
	Hardback appointments book, A5 size. Black plastic, marble effect.	
A.45	'1993'	1993
	Hardback appointments book, A5 size. Black plastic, marble effect.	
A.46	'1994'	1994
	Hardback appointments book, A5 size. Black plastic.	
A.47	'1994-1995'	1994-1995
	Soft pocket diary, burgundy plastic.	
A.48	'1995'	1995
	Hardback appointments book, A5 size. Blue plastic.	
A.49, A.50	Address books	n.d.
A.49	'Addresses'	n.d.
	Hardback address book, A4. Includes intercalated material at front and business cards throughout.	
A.50	'WM's address book'	n.d.
	Soft booklet, silver. Marshall's personal telephone directory.	

A.51, A.52	PHOTOGRAPHS	1982x1989, n.d.
A.51	Portraits of Lord Marshall Series of four photographs from the same occasion, one monochrome (passport size), the rest in colour. Further includes two monochrome photographs, originally found with material <i>re</i> Marshall's lecture 'Electricity, nuclear power and nuclear waste', Kingston Polytechnic, Kingston upon Thames, 23 October 1986.	1982x1989
A.52	Portraits of Lady Marshall Two photographs, one of them in colour.	n.d.

SECTION B	UNITED KINGDOM ATOMIC ENERGY AUTHORITY (UKAEA), B.1-B.138	1954-1980, n.d.
	B.1-B.41	'THEORIES OF MAGNETISM' and 'LECTURES AT HARWELL'
	B.42-B.103	NOTEBOOKS
	B.104-B.137	SELECT COMMITTEE ON ENERGY
	B.138	'HARWELL GOES COMMERCIAL'
B.1-B.41	'THEORIES OF MAGNETISM' and 'LECTURES AT HARWELL'	?1959-?1969
	Contents of a box file so inscribed, with dividers labelled as follows: 'A, Lectures on Thermal Neutron Scattering from Solids', 'B, Theory of Magnetism', 'C, Some Aspects of Ferromagnetism', 'D, Critical Phenomena', 'E, Investigations of Magnetic Materials using Neutron Scattering' and 'F, Report on Critical Phenomena Conference'.	
B.1-B.12	'Lectures on Thermal Neutron Scattering from Solids. A course of lectures given at Harvard University, Spring 1959'	?1959-1963
	Original typescript with title leaf so inscribed. Further inscribed: 'Theoretical Physics Division, Atomic Energy Research Establishment, Harwell, Berkshire, April 1963' and 'Unclassified'.	
	Lectures 5 and 8-11 are photocopies from an older typescript on US letter size paper.	
B.1	'Lecture 1, Thermal Neutron Scattering from Solids. Fundamentals: Coherence and Incoherence' 11pp.	

- B.2, B.3 ‘Lecture 2, Bragg Scattering’

11pp + 3pp (appendix 1, ‘Scattering from a single free nucleus’).
- B.4 ‘Lecture 3, Magnetic Interaction’

13 pp.
- B.5 ‘Lecture 4, Elastic Magnetic Scattering’

24pp.
- B.6 ‘Section 5, Magnetic Scattering from Transition Metals and Alloy’

16pp. Photocopy.
- B.7 ‘Lecture 6, Phonon Theory’

14pp.
- B.8 ‘Lecture 7, Scattering by Phonons’

17pp.
- B.9 ‘Section 8, Magnetic Inelastic Scattering: Spin Waves’

12pp. Photocopy.
- B.10 ‘Section 9, Correlation Functions: Nuclear Scattering’

14pp. Photocopy.
- B.11 ‘Section 10, Correlation Functions: Magnetic Scattering’

6pp. Photocopy.

- B.12 ‘Section 11, Polarisation Effects’
16pp. Photocopy.
- B.13-B.26 ‘Theory of Magnetism. A course of lectures given in 1961
the Autumn 1961 at the Atomic Energy Research
Establishment, Harwell’**
- Typescript, first page so inscribed.
- B.13 ‘Lecture 1’
8pp mimeograph, lightly annotated in red pen.
- B.14 ‘Lecture 2’
6pp mimeograph, lightly annotated in red pen.
- B.15 ‘Lecture 3’
8pp mimeograph, lightly annotated in red pen.
- B.16 ‘Lecture 4’
8pp mimeograph, lightly annotated in red pen.
- B.17 ‘Lecture 5’
9pp mimeograph, lightly annotated in red pen.
- B.18 ‘Lecture 6’
8pp mimeograph, lightly annotated in pencil and red pen.
- B.19 ‘Lecture VII’
8pp mimeograph, lightly annotated in pencil, dated 9
December 1961.

B.20	'Lecture 8'	
	7pp mimeograph, lightly annotated in red pen.	
B.21	'Lecture 9'	
	12pp ?carbon copy.	
B.22, B.23	'Lecture 10'	
	14pp manuscript, lightly annotated in red pen, and 6pp typescript copy (used front and back).	
	2 folders.	
B.24	'Lecture 11'	
	6pp original typescript with handwritten insertions (equations).	
B.25	'Lecture 12'	
	4pp typescript, used front and back. Also inscribed '[Un]classified - approved for publication' and 'T.P. 82' (at front), and 'No standard distribution except to A.E.R.E. Library' (at back).	
B.26	'Lecture 13'	
	7pp original typescript with handwritten insertions (equations).	
B.27-B.34	'Some Aspects of Ferromagnetism'	April-May 1963
	Original typescript.	
B.27	'Lecture 1'	
	10pp, further inscribed 'Unclassified' and 'AERE. TP/103'.	

B.28	'Lecture 2'		
		10pp, further inscribed 'Unclassified' and 'AERE. TP/104'.	
B.29-B.31	'Lecture 3'		
		8pp original typescript, 8pp carbon-copy of earlier typescript (with corrections in pencil), original 'Form for the issue of AERE scientific/technical documents' for de-classification, dated 15 May 1963.	
		3 folders.	
B.32-B.34	'Lecture 4'		
		12pp original typescript, 12pp carbon-copy of earlier typescript (with corrections in pencil), original 'Form for the issue of AERE scientific/technical documents' for de-classification, dated 16 May 1963.	
		3 folders.	
B.35, B.36	'Critical Phenomena. Lectures given at Bell Telephone Research Laboratory, September, 1963'		?1963-1964
B.35	'Lecture 1'		?1963
		17pp typescript.	
B.36	Bound copy		November 1964
		Complete set (four lectures) with title leaf further inscribed 'Unclassified', 'Approved for Publication', 'AERE-L 144', 'Theoretical Physics Division, U.K.A.E.A Research Group, Atomic Energy Research Establishment, HARWELL', 'November 1964' and 'HL64/6508'.	
B.37-B.39	'Investigations of Magnetic Materials using Neutron Scattering'		n.d.
		Manuscript.	
B.37	'Lecture 1, Basic Formulae, Bragg Scattering, Spin		n.d.

	Waves'	
	Further inscribed 'T.P. 214 1.1'.	
	10pp + 5pp illustrations (reproductions).	
B.38, B.39	'Lecture 2, Magnetic Moment distributions in metals, alloys and transition ion complexes'	n.d.
	Further inscribed 'TP215 2.1'. 4pp + 4pp illustrations (reproductions).	
	Also includes AERE typescript 'Covalency Effects in Neutron Diffraction from Ferromagnetic and Antiferromagnetic Salts' (Marshall with J. Hubbard), dated February 1965.	
	2 folders.	
B.40	'Report on Critical Phenomena Conference'	n.d.
	Also inscribed 'Unclassified' and 'TP. 185' at front and 'HL65/2373' at end. 6pp + 3pp illustrations.	
B.41	'Contract Research at Harwell'	?1969
	Typescript, 7pp + 7pp tables and graphs.	
B.42-B.103	NOTEBOOKS	n.d., 1954-1965
B.42-B.58	Foolscap size	n.d., 1954x?1965
	Series of eight notebooks with handwritten notes, originally in ring binders. Undated but probably date from between 1954 and 1965.	
B.42-B.44	'General'	n.d.
/...	Notes on W. Heitler, <i>The Quantum Theory of Radiation</i> (3rd edition, 1954), paginated.	/...

	3 folders.	
B.45-B.47	<p>'Alloys' 1</p> <p>Notes on 'Hartree on Atomic Calculations', 'A. Abragam, J. Horowitz and M.H.L. Pryce', 'G.W. Pratt. P.R. 102, 1303, 1956' (B.45), 'R.K. Nesbet P.R. 118, 681, 1960', 'Eigenstates of a Square-Well Potential, Schiff p.70', 'Scattering Theory' (B.46), 'Blondin + Daniel J.P.C.S. 10, 126, 1959', 'Blondin and Friedel, Quadrupole Effects on N.M.R. in alloys', 'P.W. Anderson: P.R. 124, 41, 1961' (B.47).</p> <p>3 folders.</p>	n.d.
B.48, B.49	<p>'Alloys' 2</p> <p>Notes on 'J. Friedel, Adv. in Physics 3, 446, 1954' (B.48), 'Specific Heats and Magnetic Susceptibilities' (B.49).</p> <p>2 folders.</p>	n.d.
B.50	<p>'γ-rays'</p> <p>Notes on 'Orientation of Spins in FeO₂, CoO₂, etc. using Mössbauer effect', 'R. Bullough'.</p>	n.d.
B.51, B.52	<p>'Microwaves'</p> <p>Notes on 'Ferromagnetic Resonance', 'K.D. Bowers and W.B. Mims; Para. Relax. in Ni Fluosilicates' (B.51), 'Derek on Optical Properties of Metals', 'L.R. Walker P.R. 105, 390, 1957', 'P.L. Scott. On Dynamic Polarization' (B.52).</p> <p>2 folders.</p>	n.d.
B.53, B.54	<p>'NMR'</p> <p>Notes on 'A. Abragam and W.G. Proctor: P.R. 109, 1441, 1958' (B.53), 'C.D. Jeffries. Dynamic Orientation of Nuclei', '[Untitled]' (B.54).</p>	n.d.
/...	2 folders.	/...

B.55, B.56	<p>'Salts'</p> <p>Notes on 'Transferred Hyperfine Interaction Parameters', 'Keffer <i>et al.</i> P.R. 115, 1553, 1959', 'W. Hayer and D.A. Jones. P.P.S. LXXI 503, 1958. Para. Imp. in NaF', 'Baker, Bleaney and Hayes', 'R.G. Shulman: Preprint on N.M.R. in KMnF_3' (B.55), 'J.C. Philips: On the calculation of crystal field parameters', 'Spin-Spin Interaction: Operator Equivalents', 'Comments on Shulman and Knox', 'Use Condon and Shortley Phase Conventions', 'J.E. Kunzler, L.R. Walker and J.K. Galt. P.R. 119, 1609, 1960' (B.56).</p> <p>2 folders.</p>	n.d.
B.57, B.58	<p>[Untitled]</p> <p>Notes on 'V. Crocker' (B.57) and 'J. Tait' (B.58).</p> <p>2 folders.</p>	n.d.
B.59-B.103	<p>Medium quarto [US letter] size</p> <p>Series of eight notebooks with handwritten notes, originally in ring binders. B.59-B.74 were found in three clothbound US manufactured binders, B.75-B.96 in three green plastic binders.</p>	n.d., ?1958-1965
B.59-B.63	<p>'Private communications <i>et al.</i>'</p> <p>Mislabeled. Overview followed by notes on literature 1937-1958, on topics including 'Anisotropy of ferromagnets', 'Magnetohydrodynamics', 'Resistance anomalies', etc. Also includes notes on 'Research at FORD Labs', 'Summary of Gordon Conference (1958)', 'Discussions at Lincoln Labs 28 Oct 58', 'Research at Bell Laboratories 10 Jan 1959', 'Research at Pittsburgh', 'Research at Westinghouse', 'Discussion with Jones', 'Research at G.E. Schenectady', '1 Oct 1959 Discussion with Arrott about Overhouser's s.p.w.s', and 'Discussion with J. Bell 24 Jan 1960'.</p> <p>5 folders.</p>	n.d., ?1958- ?1960
B.64-B.68	<p>'Extinction, Hugenholtz, Wilson, Group theory'</p> <p>So inscribed. Notes on 'Extinction' missing, 'Hugenholtz [1957]' (at B.64, B.65), 'Wilson. Transport properties'</p>	n.d.

	(B.66), 'Group theory' (B.67, B.68). 5 folders.	
B.69-B.74	'Salts' So inscribed. Overview followed by notes on literature 1935-1958. 6 folders.	n.d.
B.75-B.79	'A, W. Marshall' So inscribed. Overview ('A, Contents') followed by notes on 'Liquids and Critical Region' ('mostly is a commentary on Lecture notes at Bell Telephones') (B.75), 'Spin Waves' ('Discusses Green's functions and Spin Waves. Sets out Problem neatly', 'Reviews Tahir Kheli, Cullen very briefly', 'Another attempt which fails [etc.]') (B.76), and 'Critical Phenomena' (B.77-B.79). 5 folders.	1965-[?]
B.80-B.88	'B, W. Marshall' So inscribed. Overview ('B') followed by notes on literature, 'Calculations of Hyperfine + Quadrupole interactions for given states of $S'=1/2$ ', 'Mössbauer Problem', 'Various Calculations for Ferrous Salts', etc. 9 folders.	January- March 1965
B.89-B.96	[Neutron diffraction, scattering, phase shift etc.] Overview (incomplete) followed by notes on literature and calculations. 8 folders.	n.d.
B.97-B.102 /...	[Time dependence of critical scattering, specific heat of alloys, etc.] 'Working list' and list of 'Problems' (B.97), followed by notes on literature: 'Ruderman and Kittel [1954]', 'Owen, Browne, Knight and Kittel [1956]', 'Owen, Browne, Arp and Kip [1957]', 'K. Yosida [1957]', 'Comment' (B.98), 'Kasuya [1956]', 'Behringer [1957]', 'Pratt [1957]',	n.d. /...

'Spedding et al.', 'Sato, Arrott + Kikuchi', 'Kittel and Abrahams [1953]' (B.99), and 'Superexchange' etc. (B.100-B.102).

6 folders.

B.103 [Antiferromagnets] n.d.

Notes on literature (1951-1954) *re* antiferromagnets.

B.104-B.137 SELECT COMMITTEE ON ENERGY 1980, n.d.

Contents of a box file inscribed 'Briefing material for Select Committee Feb '80'.

Following the Government's statement on nuclear power policy on 18 December 1979, the UKAEA had been asked by the House of Commons Select Committee on Energy to give their views on a range of questions bearing on the statement. The Authority submitted a memorandum, 'Aspects of Thermal Reactor Policy and Nuclear Industry Organisation', and on 13 February 1980 Marshall gave evidence to the Committee (together with Sir John Hill, the Chairman of the UKAEA).

B.104-B.108 Select Committee hearing 1980

B.104, B.105 Marshall's speaking notes 1980

Handwritten notes, draft typescript 'Brief/Speaking Note for Dr. W. Marshall's appearance at Select Committee on Energy [etc.]', typescripts 'Dr Marshall's evidence to the Select Committee on Energy' (an additional briefing *re* post-yield fracture mechanics etc.) and 'Supplementary brief, Chairman's question 6, Deployment of Effort on PWR'.

2 folders.

B.106-B.108 Minutes of evidence taken before the Energy Committee, Sir John Hill and Dr Walter Marshall February 1980

Typescript transcript.

3 folders.

B.109	<p>Press response</p> <p>Press reports on the hearing.</p>	14-15 February 1980
B.110-B.121	<p>Marshall's briefing folder</p> <p>Originally in a ring binder. With cover letter and overview.</p> <p>Includes information on the Select Committee, copies of memoranda and evidence taken by it to date, and detailed briefing material <i>re</i> the following points: 'Thermal reactor safety'; 'Safety issues'; 'Fast reactor policy'; 'Previous investigations by Select Committee'; 'Authority programmes in support of thermal reactors'; and 'Gerald Leach's low energy future'.</p> <p>12 folders.</p> <p>Leach was to give evidence to the Committee on 21 February.</p>	8 February 1980
B.122-B.129	<p>Correspondence and memoranda, January-February 1980</p> <p>Includes draft and final version of the UKAEA memorandum to the Select Committee, typescript of notes taken when the Chairman of the CEBG gave evidence, Sir Alan Cottrell's memorandum to the Committee, correspondence <i>re</i> witnesses at Select Committees being covered by Parliamentary immunity, copy of Gerald Leach's written evidence to the Committee, typescript of notes taken when Leach and Lord Bowden gave evidence. Also includes correspondence <i>re</i> J. Surrey's review of nuclear plant performance, press coverage of other evidence presented to the Committee, and Westinghouse's upcoming testimony.</p> <p>8 folders.</p> <p>Cottrell gave evidence on 20 February.</p>	1980
B.130-B.137	<p>Additional material</p> <p>Includes copies of the following: HM Nuclear Installations Inspectorate, <i>Safety Assessment Principles for Nuclear Power Reactors</i> (B.130, B.131), briefing note by M. Davies <i>re</i> 'Underclad cracking in French PWRs manufactured by FRAMATOME' (B.132), Sir Alan</p>	1980, n.d.

Cottrell's evidence before the Select Committee on Science and Technology, given 23 January 1974 ('Fractures of steel pressure vessels') (B.133), J. Surrey and S. Thomas, *World Wide Nuclear Plant Performance: Lessons for Technology Policy* (SPRU Occasional Paper Series no. 10, January 1980) (B.134), Lord Bowden's 'Nuclear power in the United Kingdom - an essay' (B.135), etc.

8 folders.

SPRU was the Science Policy Research Unit, University of Sussex.

B.138

'HARWELL GOES COMMERCIAL'

1973

Copy of 'Harwell goes commercial', *Financial Times*, 12 January 1973.

Discusses Harwell's evolution into a research services provider to industry, prompted by changes in Government attitudes towards its research establishments in 1970.

SECTION C	CENTRAL ELECTRICITY GENERATING BOARD (CEGB), C.1-C.342	1982-1992
	<p>Papers documenting Marshall's Chairmanship of the CEGB, 1982-1989, including his resignation on 19 December 1989 and aftermath. The bulk of the material relates to the privatisation of the UK electricity supply industry. Also covers the 1984-1985 Miners' Strike.</p>	
	C.1-C.80 'EARLY CORRESPONDENCE' and 'MEETINGS' and 'PRIVATISATION + COAL STRIKE'	
	C.81-C.174 REFERENCE MATERIAL	
	C.175-C.257 'PRIVATISATION PAPERS', I	
	C.258-C.266 'PRIVATISATION PAPERS', II	
	C.267-C.342 'PRESS CUTTINGS'	
C.1-C.80	'EARLY CORRESPONDENCE WITH NIGEL LAWSON THEN WALKER' and 'MEETINGS WITH PARKINSON, WAKEHAM + THATCHER' and 'PRIVATISATION + COAL STRIKE'	1982-1989
	<p>Contents of a box file so inscribed.</p>	
C.1-C.12	Correspondence	1982-1987
C.1-C.9	'Department of Energy private correspondence' Originally in a folder so inscribed.	July 1982- November 1987
C.1, C.2	1982 2 folders.	

C.3-C.8	1983 6 folders.	
C.9	1984-1987	
C.10-C.12	'Drafts of letters to SoS on objectives' From a file so inscribed. The inscription continued 'never sent, WM might like to consult in future'. 3 folders.	1983
C.13-C.80	Meetings In chronological order. See also H.80.	1983-1989
C.13-C.60	Meetings with the Secretary of State for Energy Office holders in the period were Peter Walker (11 June 1983-13 June 1987), Cecil Parkinson (13 June 1987-24 July 1989) and John Wakeham (24 July 1989-11 April 1992).	1983-1989
C.13	7 July 1983 Handwritten notes, 5pp.	1983
C.14	14 October 1983 Handwritten notes, 8pp. Some pages dated 16 October 1983.	1983
C.15	25 July 1984 Handwritten notes, 1pp. See also briefing of the Prime Minister, C.72-C.75.	1984

C.16	'Coal situation', 4 September 1984 Handwritten notes, 3pp + 5pp briefing notes with illustrations.	1984
C.17	18 September 1984 Annotated briefing material <i>re</i> increases in oil- and gas-fired output capability, 11pp. Includes illustrations.	1984
C.18	'Endurance', 2 October 1984 Handwritten notes, 3pp + 1p + 3pp typescript briefing material.	1984
C.19-C.22	'Endurance', 22 October 1984 Original folder so inscribed. Handwritten notes, 6pp (C.19), with extensive briefing material (C.20-C.22). 4 folders.	1984
C.23	31 October 1984 Handwritten notes, 2pp + 7pp briefing material. Further includes correspondence.	1984
C.24	8 November 1984 Handwritten notes, 2pp + 5pp briefing material. Further includes correspondence.	1984
C.25	15 November 1984 Handwritten notes, 2pp + 8pp briefing material, annotated.	1984
C.26	22 November 1984 Folder so inscribed. Handwritten notes, 1p + 9pp briefing	1984

C.27	material. 3 December 1984	1984
	Handwritten notes, 1p + 4pp briefing material.	
C.28	11 December 1984	1984
	Handwritten notes, 2pp + 5pp briefing material.	
C.29	19 December 1984	1984
	Handwritten notes, 2pp + 2pp briefing material (annotated).	
C.30	1984	1984
	Undated memorandum <i>re</i> planned 'exchange electricity between EDF and CEGB to mutual benefit', 4pp. Covers arrangements for the treaty, penalty clauses, timing of the signature, etc.	
	Marshall feared that to sign the agreement at the end of May [1984] would provoke the leader of the National Union of Mineworkers, Arthur Scargill. Once public knowledge, the agreement could be used to support 'Scargill's line that the present cut-back is only the beginning of a massacre of the coal industry'.	
C.31	10 January 1985	1985
	Handwritten notes, 2pp + 3pp briefing material.	
C.32	21 January 1985	1985
	Handwritten notes, 2pp + 5pp briefing material (including an original CEGB update <i>re</i> the coal supply situation at the Didcot power station, Oxfordshire).	
C.33	30 January 1985	1985
	Folder so inscribed. Further marked 'long meeting'. Handwritten notes, 3pp + 4pp briefing material.	

C.34	14 February 1985	1985
	Handwritten notes (3pp) and extensive annotated briefing material (9pp + 6pp), projecting scenarios for recovery should the Miners' Strike end by 1 March.	
C.35	26 February 1985	1985
	Handwritten notes, 2pp + 4pp briefing material. Further includes a map showing generating stations and transmission lines, with annotations outlining the situation in the South West.	
C.36	5 March 1985	1985
	Handwritten notes, 1p + 3pp briefing material, including a diagram projecting recovery and consolidation after 1 April 1985, detailing coal stocks at home and abroad.	
C.37	1 April 1985	1985
	Handwritten notes, 2pp.	
C.38	16 April 1985	1985
	Handwritten notes, 2pp.	
C.39	21 June 1985	1985
	Handwritten notes, 1p.	
C.40	21 October 1985	1985
	Handwritten notes, 2pp.	
C.41	19 December 1985	1985
	Handwritten notes, 1p.	
C.42	20 January 1986	1986

	Handwritten notes, 2pp.	
C.43	19 February 1986 Handwritten notes, 2pp.	1986
C.44	16 April 1986 Handwritten notes, 1p.	1986
C.45	'End February [1987]' Handwritten notes, 1p.	1987
C.46	2 March 1987 Handwritten notes, 2pp.	1987
C.47	27 March 1987 Handwritten notes, 5pp.	1987
C.48	22 June 1987 Handwritten notes, 7pp. The meeting was with Cecil Parkinson, who took over as Secretary of State for Energy on 13 June.	1987
C.49	17 September 1987 Handwritten notes, 3pp. Further includes handwritten briefing documents: 'Coal fired power stns' (1p) from a folder marked 'Explained to S of S but he, very properly, stood aside from comment', and 3pp from a folder marked 'Endurance and targets, prepared for meeting on 10 September 1987 but not used. Used on 17 September'.	1987
C.50	28 September 1987	1987

Handwritten notes, 2pp.

C.51	8 June 1989	1989
	Handwritten notes, 1p, and correspondence, including a letter in which Marshall set out his objections to Parkinson's privatisation scheme.	
C.52-C.56	13 July 1989	1989
	Correspondence and CEGB briefing documents (including <i>re</i> the financing of PWRs). Drafts of correspondence arising from the meeting at C.55, C.56. 5 folders.	
C.57	1 August 1989	1989
	Handwritten notes, 2pp + 3pp + 1p. The meeting was with John Wakeham, who took over as Secretary of State for Energy on 24 July.	
C.58	6 September 1989	1989
	Typescript account (2pp) of the meeting by J.W. Baker, who had accompanied Marshall. Further includes a letter from staff representatives at Sizewell 'A' Power Station, sent to their MPs and copied among others to the Prime Minister. At the time Baker was the Chief Executive of the CEGB.	
C.59	5 October 1989	1989
	Typescript account (2pp) of the meeting by J.W. Baker, correspondence.	
C.60	Miscellaneous	n.d.
C.61-C.71	Handwritten notes, 9pp. Meetings with the Parliamentary Under-Secretary of State for Energy	1983x1989

Contents of a file inscribed 'Alastair Goodlad'.

Goodlad was in office 26 November 1984-11 May 1987.

C.61	6 February 1985 Handwritten notes, 1p.	1985
C.62	11 February 1985 Handwritten notes, 1p.	1985
C.63	12 March 1985 Handwritten notes, 1p.	1985
C.64	29 April 1985 Handwritten notes, 1p.	1985
C.65	25 July 1985 Handwritten notes, 1p.	1985
C.66	December 1986 Handwritten notes, 1p.	1986
C.67	Undated Handwritten notes, 7pp.	1984x1987
C.68-C.71	Additional material Handwritten notes, in chronological order.	1983x1989
/...	Includes 'Lord Avon 1/Aug/83' (1p), 'Ken Couzens 3/Aug/83' (4pp), '[Robert Armstrong] 15/May/84' (5pp), 'Philip Jones 8 Jan [85]' (3pp), 'Martin Holdgate ... 28/Oct/85' (1p), 'Kenneth Baker + William Waldegrave	/...

29/1/86' (2pp), 'Sunningdale: P. Middleton/K. Couzens/T. Beckett Exec 16/May' (8pp), etc.

4 folders.

C.72-C.80	Meetings with the Prime Minister	1984-1985
C.72-C.75	'25 July 1985' From a file so inscribed. Probably mislabelled (see dates on documents; also compare C.15). The meeting in question is more likely to have taken place in July 1984.	1984
C.72	'Endurance I Presentation' From a file so inscribed. Handwritten notes. 'Questions' (2pp), presentation (4pp), annotated graphs (2pp).	1984
C.73, C.74	'Endurance II Background' From a file so inscribed. In original order, as follows: handwritten notes (1p), typescript briefing documents (3pp + 8pp), handwritten notes (4pp), annotated CEGB briefing document 'endurance' (9pp). 2 folders.	1984
C.75	'Endurance III Current' From a file so inscribed. In original order, as follows: handwritten notes (2pp), CEGB briefing documents 'NUM dispute: Staffordshire opencast coal' (4pp) and 'NUM industrial action' (10pp).	1984
C.76-C.80	'29 July 1985' From a file so inscribed. In original order.	1985, n.d.
C.76	Letters to the Prime Minister Typescript, 2pp.	July 1985

C.77, C.78	Notes and briefing documents	n.d.
	<p>As follows: handwritten notes (16pp), CEGB briefing documents (4pp + 5pp), map of 'Supergrid system 1988', CEGB briefing documents 'Variation of endurance [etc.]', 'Coal availability projections', 'Projected coal availability' (1p each).</p> <p>2 folders.</p>	
C.79, C.80	Illustrations	n.d.
	<p>Ten pieces, some in colour. As follows: 'Average annual power production AGRs', 'Average annual power production French PWRs', 'Snupps-Callaway nuclear plant cumulative MWe capacity factors', etc.</p> <p>2 folders.</p>	
C.81-C.174	REFERENCE MATERIAL	1984-1987
	<p>Series of 13 thematic ring binders, in chronological order.</p>	
C.81-C.96	'Lectures and talks'	1984-1988
	<p>So labelled on spine. Includes table of contents detailing occasions and authors/presenters of each talk. In original order.</p>	
C.81-C.83	'Operational points (draft by F. Ledger), 1984'	January-March 1984
	<p>Includes overview of the ring binder. Typescript outline of a speech ('Operations talk') to be given by Marshall, with background material.</p> <p>3 folders.</p>	
C.84-C.86	'Talk by Admiral Rickover (May 1979)'	January 1986
	<p>Copy of a talk by Admiral H.G. Rickover, USN, before the Subcommittee on Energy Research and Production of the Committee on Science and Technology, US House of Representatives (55pp). Circulated by J.G. Collier and</p>	

with Marshall's notes.

3 folders.

Collier was the Director General of the CEGB.

C.87 'Energy for the next generation (Peter Walker) (June 1986)' 25 June 1986

Typescript of a speech by the Secretary of State for Energy on the future of nuclear power, given at the Engineering Employers' Federation (7pp). Includes a cover letter.

C.88 'Speech to first session of IAEA special conference (Sept 86)' October 1986

Annotated typescript (marked 'excellent') of a speech by the Secretary of State for Energy, given at the opening session of the special general conference of the International Atomic Energy Agency in October 1986 (7pp). Includes a cover letter.

C.89 'Sizewell and Britain's future energy policy - D.En. (March 1987)' March 1987

Typescript of information material distributed by the Department of Energy to Conservative Members of Parliament, 16pp + cover letter.

C.90 'David J. Rose Lecture in Nuclear Technology - Lord Marshall. 5 April 1988' 12 February 1988

Draft typescript of a lecture Marshall planned to deliver at the Massachusetts Institute of Technology, Boston, Mass., US. 23pp.

The visit was cancelled.

C.91-C.96 '20th JAIF papers' April 1987

Typescripts of presentations from the first session of the 20th Japan Atomic Energy Industrial Forum (JAIF). See also H.415.

6 folders.

Authors included J.-P. Capron (Administrator General of the Atomic Energy Commissariat), N. F. Lukonin (Head of the Soviet Ministry of Nuclear Power), H. Blix (Director General of the IAEA), Marshall himself, G. Hiraiwa (Tokyo Electric Power Co, Inc.) and R. Ramanna (recent Chairman of the Atomic Energy Commission, India).

C.97-C.103

'AGR problems Dec. 1985'

?1984x1986

So labelled on front cover. Photocopies of correspondence, notes, drawings, tables, photographs, press reports, etc. *re* 'AGR standpipe liner cracking', 'Basic problems with A.G.R.s now', 'Comparative costs of AGR and PWR', 'Notes on nuclear policy for the U.K.', 'Why drop AGR for PWR', 'AGR - the present position', etc.

In original order.

7 folders.

C.104-C.116

'Acid rain'

1985-1986

So labelled on spine. Includes Marshall's lecture 'Acid rain: the political challenge', given on 19 September 1986 (see also H.357-H.361). Further includes copies of press statements and briefing material, some of which was originally created in 1983. Other background material appears to have come from a conference Marshall attended in December 1985 (*Coaltech '85: Fifth International Conference and Exhibition on Coal Utilisation and Trade*; see H.281-H.288).

In original order.

13 folders.

C.117-C.122

'Sub-Committee F - Walter Marshall'

1986

So labelled on front. Notes, correspondence and evidence submitted to the 'enquiry into nuclear power in EEC member states' of Sub-Committee F of the House of Lords European Communities Committee. Includes Marshall's own evidence, that of R. Carle of Électricité de

France, etc.

In original order.

6 folders.

Marshall was asked to testify on 13 March.

C.123-C.134	'Select Committee on Energy, 19 March 1986' and 'Coal'	1986
	<p>So labelled on spine. Structured as follows: 'WM's notes' (C.123), 'Memo by CEGB' (C.124, C.125), 'Opening statement' (C.126), 'Questions and answers' (C.127-C.130) and 'Briefing' (C.131-C.134).</p> <p>In original order.</p> <p>12 folders.</p>	
C.135, C.136	'Fossil-fuels'	1986-1987
	<p>So labelled on spine. Handwritten notes, calculations and briefing material <i>re</i> CEGB coal burn, the role of coal in EEC energy thinking, etc. In original order.</p> <p>2 folders.</p>	
C.137-C.144	'Cecil Parkinson I'	June-October 1987
	<p>So inscribed on spine. Further inscribed on front: 'Briefing with Secretary of State File (1)'. Material for a series of meetings with the Secretary of State for Energy <i>re</i> the privatisation of the electricity supply industry.</p> <p>In original order.</p>	
C.137	'Sec of State Mtg - 22/6/87'	
	<p>Divider so inscribed. Handwritten notes.</p>	
C.138-C.140	'Sec of State Mtg - 17/9/87'	
	<p>Divider so inscribed. Includes Marshall's handwritten</p>	

notes and other briefing material, with comments on 'Post-it' notes as follows: 'explained to sec of state but he very properly stood aside from comment', 'endurance and targets - prepared for meeting on 10/9/87 but not used - used on 17/9/87', 'capacity charges - not discussed with S of S', and 'Hinkley Point 'C' - discussed and agreed in principle with Cecil Parkinson'.

3 folders.

C.141	'Sec of State Mtg - 28/9/87'	
	Divider so inscribed. Handwritten notes, correspondence, typescript speaking notes.	
C.142	'Sec of State Mtg - 26/10/87'	
	Divider so inscribed. Includes a typescript 'note of discussion with the Secretary of State on AGRs, 26 October 1987', etc.	
C.143, C.144	'N.N.C. not discussed'	
	Divider so inscribed. Material bearing on the nuclear consultancy and engineering group NNC Ltd. Marked 'I decided not to go through this in detail; briefly referred to in discussion with S of S'.	
	2 folders.	
C.145-C.148	'Transmission and the grid, 28/10/87' and 'With F. Ledger' and '4th Meeting'	1987
/...	So inscribed on top sheet. Notes for and arising from a meeting with the Secretary of State for Energy, 28 October 1987 (C.145). Followed by a briefing pack divided into ten sections (C.146-C.148); overview at C.146.	/...
	4 folders.	
C.149-C.157	'Big CEGB + little CEGB' and '5th Meeting'	1987
	So inscribed on spine. Handwritten notes for a meeting	

with the Secretary of State for Energy, 5 November 1987 (C.149). Followed by a briefing pack divided into eight sections (C.150-C.157); overview at C.150.

In original order.

9 folders.

The title of the binder refers to a specific model for the privatisation of the CEBG, which envisaged a split of the CEBG into 'Big CEBG', composed of 'grid + nuclear + about 50% fossil', and 'Little CEBG' ('= about 50% fossil fuel').

C.158-C.161 **'Privatisation 6th [with Baker] and 7th'** 1987

So inscribed on front. Material for meetings with the Secretary of State for Energy, 12 November and 7 December 1987. Includes handwritten notes, CEBG confidential circulars and other briefing material.

4 folders.

At the time, J.W. Baker was Corporate Managing Director, CEBG, and accompanied Marshall to some of the meetings with the Secretary of State for Energy.

C.162-C.164 **'S. of S. Privatisation Briefings 1. = Elementary, 2. = Security, 3. = Whirlwind Day'** 1987

So inscribed on spine. Miscellaneous notes and CEBG circulars. Also includes extracts from a speech by Cecil Parkinson at the 104th Conservative Party Conference at Blackpool, October 1987.

3 folders.

C.165-C.168 **'AGR Update briefings by Dr Edmondson'** 1987

So inscribed on spine. Inscription appears to match content.

C.165 **'Note of discussion with the Secretary of State on AGRs 26 October 1987'**

Handwritten briefing notes (11pp), with a typescript

account (1p) of the Secretary of State's reaction to them.

- C.166 'Annual press conference Q+As, July 1987'
- Typescript, 33pp. Covers AGRs, nuclear commissioning and construction, nuclear fuel transport, reprocessing and storage, decommissioning, and the fast reactor.
- C.167, C.168 'Update briefing on AGR, Technical Issues, 12 October 1987'
- Covers clad oxidation, fuel issues, nuclear cranes, Hartlepool/Heysham, Dungeness B, Heysham II, Hinkley Point B, followed by an update on output forecasts.
- 2 folders.
- C.169-C.174 '**Public arguments privatisation and southern planting strategy**' 1987
- So inscribed on spine by Marshall. Miscellaneous background material (CEGB circulars, briefing notes, etc.).
- 6 folders.
- C.175-C.257 '**PRIVATISATION PAPERS', I** 1983-1990
- From a box file so inscribed. In chronological order.
- C.175, C.176 Schedule of reference material 1988x1990
- Marked 'Privatisation, 7'. Handwritten list (19pp) itemising 522 documents bearing on the negotiations *re* the privatisation of the electricity supply industry.
- 2 folders.
- C.177 *Nuclear Generation - Risk Allocation on Privatisation*, 23 August 1988 1988

Copy of a paper by the advisory investment bank Lazard Brothers & Co Ltd. Spiral-bound.

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|--------------|---|------|
| C.178 | <p>'Block contract for PWRs', 24 October 1988</p> <p>Letter (annotated) to J.R.S. Guinness at the Department of Energy. Also includes 'Statement by the CEGB Board to staff', 26 February 1988.</p> <p>Guinness was Deputy Secretary at the Department.</p> | 1988 |
| C.179 | <p><i>Analysis of accounting costs of electricity generation</i>, November 1988</p> <p>Spiral-bound. Marked 'From R. Cotton - compiled from your mtgs to brief interested parties'.</p> | 1988 |
| C.180, C.181 | <p>'Hinkley Point C inquiry economics paper', 5 December 1988</p> <p>Final version of a paper by F.B. Jenkin of CEGB on the economics of nuclear and fossil fuelled plants.</p> <p>2 folders.</p> | 1988 |
| C.182 | <p>'Where are we on contracts and pooling?', 21 August 1989</p> <p>Report from A.D. Johnston of Lazard Brothers & Co, Ltd., 21pp.</p> | |
| C.183 | <p>'Meeting with Lord Marshall', 23 August 1989</p> <p>Correspondence and briefing material <i>re</i> a meeting provisionally scheduled for 5 September.</p> | 1989 |
| C.184 | <p>'Risk management in three dimensions: the Unified Pool and the Fix', 25 August 1989</p> <p>Copy of a fax from Nera Consulting Economists, 3pp. Also includes briefing on 'Spot capacity and energy markets' sent 30 August 1989, 4pp.</p> | 1989 |

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|-------|--|------|
| C.185 | <p>'Chairman's brief on fossil contract negotiations', 1 September 1989</p> <p>Typescript, 4pp.</p> | 1989 |
| C.186 | <p>'Magnox nuclear power station talk', 6 September 1989</p> <p>Copy of the lecture text (16pp), with colour reproduction of the slides (6pp). See also H.579-H.581.</p> <p>Marshall later referred to this presentation as the 'Decommissioning Lecture' (see D.7).</p> | 1989 |
| C.187 | <p>'Fossil contracts', 7 September 1989</p> <p>Typescript memorandum including copy of letter to Secretary of State for Energy, 5pp.</p> | 1989 |
| C.188 | <p>'Fossil contracts - a note for discussion', 18 September 1989</p> <p>Typescript briefing note addressed to 'Privatisation Management Committee', 9pp.</p> | 1989 |
| C.189 | <p>'New Zealand privatisation', 26 September 1989</p> <p>Copy of <i>Towards Efficiency in the New Zealand Electricity Industry</i>, September 1989 (13pp), with a covering note from J.W. Baker stating 'you will be interested to see how New Zealand may have picked the best and avoided the worst of the UK approach'.</p> | 1989 |
| C.190 | <p>'Relationship of the PES franchise to the NFFO and the levy', 29 September 1989</p> <p>Memorandum from Nera Consulting Economists, 2pp.</p> | 1989 |
| C.191 | <p>'Obligation to supply', 5 October 1989</p> <p>Note from the law firm Linklaters & Paines (6pp), with cover letter.</p> | 1989 |

C.192	<p>'Fossil contract update', 3 October 1989</p> <p>Memorandum by P.N. Milner for National Power Advisory Board Meeting on 5 October (15pp).</p>	1989
C.193	<p>'Pooling, contract form and settlement', 9 October 1989</p> <p>Account of the Department of Energy's position, 18pp.</p>	1989
C.194	<p>'AGR and PWR indicative prices', 11 October 1989</p> <p>Letter to the Department of Energy, 8pp. Includes two appendices (7pp + 8pp).</p>	1989
C.195	<p>'Pooling, contract form and settlement', 16 October 1989</p> <p>Typescript briefing document for J.W. Baker, for a meeting on 12 October. Documents response to position of the Department of Energy (see C.193), 3pp.</p>	1989
C.196	<p>'Pooling, contract form and settlement', 17 October 1989</p> <p>Draft reply to Department of Energy's statement of position (see C.193), 10pp.</p>	1989
C.197	<p>'Contracts and settlements presentation', 20 October 1989</p> <p>Set of copies of slides (10pp), with a cover letter.</p>	1989
C.198	<p>'Nuclear contract indicative prices', 20 October 1989</p> <p>Letter from M. Townsend, 3pp.</p>	1989
C.199	<p>'Internal working groups', 23 October 1989</p> <p>Brief <i>re</i> 'the sequences of our internal working groups in the light of the privatisation management and reporting arrangements that have been agreed with Government', 10pp.</p>	1989

C.200	'Pooling, contract form and settlement', 24 October 1989 Duplicated correspondence, 6pp.	1989
C.201	'Nuclear electricity supply contracts - indicative prices', 24 October 1989 Memorandum by M. Townsend, 8pp.	1989
C.202	'AGR and PWR indicative prices', 24 October 1989 Memorandum by M. Townsend, 3pp.	1989
C.203	'Truly unified pool', 25 October 1989 Status report by Touche Ross Management Consultants (9pp), with cover letter.	1989
C.204	'A molecular approach to the settlement system', 1 November 1989 Memorandum, 2pp.	1989
C.205, C.206	<i>National power and PWR financing</i> , 1 November 1989 Report by Lazard Brothers & Co Ltd, October 1989; spiral-bound. Also includes correspondence, 5pp. 2 folders.	1989
C.207	'Coal', 16 November 1989 Note for the record <i>re</i> a meeting with the Secretary of State for Energy, 2pp.	1989
C.208	'PWR costs and prices', 16 November 1989 Memorandum, 8pp.	1989
C.209, C.210	'CEGB accounts for the year ended 31 March 1989', 23 November 1989	1989

45pp.

2 folders.

C.211	'PWR costs and prices', 23 November 1989 Memorandum, 5pp.	1989
C.212	'Coal negotiations', 24 November 1989 Note for the record <i>re</i> a meeting with the Secretary of State for Energy, 4pp.	1989
C.213	'Decommissioning costs', 28 + 29 November 1989 Memoranda on the topic, 2pp + 2pp.	1989
C.214-C.234	'BNES Lecture', 30 November 1989 Material <i>re</i> Marshall's British Nuclear Energy Society Annual Lecture, 'The future for nuclear power'. See also D.5, H.595-H.603.	1983-1989
C.214-C.221	'BNES preparation' From a file so inscribed. Handwritten notes and calculations <i>re</i> indicative prices (7pp), followed by a series of CEGB briefing documents:	1988-1989
/...	'A, Nuclear power: risks and regulation', 18 May 1988; 'C, Lazard Brothers & Co Ltd, Nuclear generation - risk allocation on privatisation, Summary of contents and principal conclusions', August 1988; 'E, Block contract for PWRs', 24 October; 'G, [National power nuclear]', 31 January 1989; 'H, Nuclear issues', 28 February 1989; 'K, [from J.W. Baker to the Department of Energy]', 10 July 1989; 'M, [from J.W. Baker to the Department of Energy]', 31 October 1989. 8 folders.	/...

Documents B, D, F, I, J and L have not been identified.

C.222-C.232	<p>'BNES Further reading'</p> <p>From a file so inscribed. Series of briefing documents, reports and other CEGB circulars, as follows: 'National Power, Financial issues overview', 2 October; 'Future of Magnox stations', 19 October; 'Nuclear indicative prices and Magnox', undated report of meeting with the Secretary of State for Energy on 31 October; 'PWR contract', 1 November; 'Nuclear indicative prices', 2 November; 'Nuclear issues including Magnox, Memorandum by Max Herbert - Company Secretary', 2 November; 'Nuclear indicative prices', 2 November; 'Meeting with the Department of Energy on indicative prices - 3 November'; '[Costs of electricity from PWRs]', 7 November; 'Briefing', 9 November; 'Magnox, AGR and PWR costs', 22 November.</p> <p>11 folders.</p>	1989
C.233, C.334	<p><i>Analysis of Generation Costs</i> (CEGB, 1983, 1985)</p> <p>One copy each of report and 1983/84 update.</p> <p>2 folders.</p>	1983, 1985
C.235-C.238	<p>'Meeting of the Generating Board', 6 December 1989</p> <p>From a file so inscribed.</p>	1989
C.235	<p>'PWR consent applications in the light of Secretary of State's statement of 9 November 1989 (paper by D.A. Davis)'</p>	30 November 1989
C.236	<p>'Creation of the nuclear division (Memorandum by G.H. Hadley)'</p>	4 December 1989
C.237, C.238	<p>'CEGB 1988/89 consolidated accounts (presented by J.R. Uttley)'</p> <p>Summary + copy of 'Accounts for the year ended 31 March 1989'.</p> <p>2 folders.</p>	December 1989

C.239-C.254	<p>'NPAB 7/12 for info'</p> <p>From a file so inscribed. Briefing material <i>re</i> the National Power Advisory Board meeting on 7 December 1989, barely annotated.</p> <p>Copy of agenda (C.239) with pre-circulated documents as follows: 'Implications for National Power of the government statement of the 9th November 1989' by M. Herbert (C.240-C.246); 'Operations report' (C.247), 'BCC coal supply agreement' (C.248), and 'Privatisation: current key issues' (C.249). Further includes 'Financial report', 'PWR consent applications', 'Progress with project 'ET' - NPAB 90', J.W. Baker's circular to National Power staff <i>re</i> the statement of the Secretary of State on 9 November (including his response on behalf of the CEGB), and circular from the Director of Personnel to all National Power managers <i>re</i> the same topic. This last document includes a managerial question and answer brief <i>re</i> 'Transfer of all nuclear plant and assets to a new organisation operating outside National Power'.</p> <p>16 folders.</p>	1989
C.255	<p>'[Price of electricity generated by the PWRs using different assumptions about the cost of capital]', n.d.</p> <p>Typescript briefing document with handwritten cover note.</p>	?1989
C.256	<p>'Electricity privatisation and prices', 22 March 1990</p> <p>Circular letter from the Secretary of State for Energy. Includes notes by Marshall and copy of report 'Reshaping the Electricity Supply Industry in England and Wales' (February 1990).</p>	1990
C.257	<p><i>Government observations on the fourth report from the Committee (session 1989-1990) on the cost of nuclear power</i>, 5 December 1990</p> <p>Copy of the Energy Committee's Third Special Report.</p>	1990
C.258-C.266	<p>'PRIVATISATION PAPERS', II</p>	1989-1992

From a box file so inscribed. In chronological order.

C.258	<p>'Peats' correspondence</p> <p>Correspondence with and <i>re</i> 'the Department of Energy's vendetta against Peats'. Includes letters of support from Peats officials following the Governments' announcement on 9 November 1989.</p> <p>'Peats' was the nickname of KPMG Peat Marwick McLintock (PMM), who had acted as auditors for CEGB for many years. In March 1990 the Department of Energy informed the firm that in view of its long association with the CEGB, there was potential for a conflict of interest if PMM were asked to act as Reporting Accountant in connection with the forthcoming sale of shares in National Power. This was followed by the announcement that there would be an investigation of whether PMM had 'fallen short of the standards that the firm could be expected to have achieved'.</p>	<p>9 November 1989-18 April 1990</p>
C.259-C.260	<p>'Privatisation and nuclear power in the UK', January 1990</p> <p>From an untitled file. Material <i>re</i> a lecture bearing this title, given at the Edison Electric Institute Chief Executive Conference, Phoenix, Arizona, US, in January 1990 (see H.604-H.608).</p>	<p>1990</p>
C.259	<p>Lecture text</p> <p>Includes colour reproductions of slides.</p>	<p>1990</p>
C.260	<p>Background material</p> <p>As requested by Marshall (see 'Post-it' note attached).</p>	<p>1990</p>
C.261, C.262	<p><i>Electricity: the new beginning</i>, May 1990</p> <p>Report by S.G. Warburg Securities. Executive summary (C.261) and full report, originally in a ring binder (C.262).</p> <p>2 folders.</p>	<p>1990</p>

C.263	<p><i>National Grid: seven year statement</i></p> <p>Copy of the seven-year-report produced by the National Grid Company plc, with a cover letter.</p>	April-June 1990
C.264	<p><i>Electricity in Europe: the triumph of free enterprise?</i>, 1991</p> <p><i>Financial Times</i> management report by A. Holmes, as requested by Marshall (see 'Post-it' note attached).</p> <p>Holmes was an energy journalist who worked for the Department of Energy for more than three years prior to joining the <i>Financial Times</i>. In 1987 he had co-authored a study of the privatisation of UK electricity supply.</p>	1991
C.265	<p>'Study trip to England: comments on the reorganisation and privatisation of the electricity industry in England and Wales', August 1991</p> <p>Report by C. Eßer, based on a study trip of leading representatives of the German electricity supply industry to the UK, 21-14 April 1991.</p>	1991
C.266	<p>'Structure and administrative framework of the German electricity supply industry', February 1992</p> <p>Copy of the paper, published in <i>Elektrizitätswirtschaft</i> vol. 91 (1992), issue 1/2.</p>	1992 /...
C.267-C.342	<p>'PRESS CUTTINGS'</p> <p>From a box file so inscribed. In chronological order. Focuses on privatisation and Marshall's resignation as Chairman of the CEBG.</p>	1988-1990
C.267-C.269	<p>Statement of the Secretary of State for Energy, 9 November 1989</p> <p>Three versions.</p> <p>3 folders.</p>	1989

C.270-C.292	Press cuttings, November 1989	1989-1990
	Mainly 'Daily Press Cuttings' provided by the Electricity Council's Public Relations service. C.282 is National Power memoranda, C.292 is US coverage.	
	23 folders.	
C.293-C.309	Press cuttings, December 1989	1989
	Mainly 'Daily Press Cuttings' provided by the Electricity Council's Public Relations service.	
	17 folders.	
C.310-C.324	Press cuttings, January 1990	1990
	Mainly 'Daily Press Cuttings' provided by the Electricity Council's Public Relations service.	
	15 folders.	
C.325	Press cuttings, February 1990	1990
/...	Mainly 'Daily Press Cuttings' provided by the Electricity Council's Public Relations service.	/...
C.326-C.334	Press cuttings, March 1990	1990
	Mainly 'Daily Press Cuttings' provided by the Electricity Council's Public Relations service.	
	9 folders.	
C.335	Press cuttings, April and August 1990	1990
C.336-C.342	'WM - You wanted to read this when you had more time'	1988-1989
	From a file so inscribed. Chiefly copies of <i>IAEA News Features</i> . Also includes annotated copies of lectures on atmospheric pollution and climatic change (one of them	

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by Hans Blix).

7 folders.

'IAEA' refers to the International Atomic Energy Agency.

SECTION D SELECT COMMITTEE ON ENERGY, 'THE COST OF 1988-1990
NUCLEAR POWER', D.1-D.49

Contents of a box file so inscribed.

Between 7 February and 21 March 1990, the House of Commons Select Committee on Energy took evidence *re* the background of the Government's decision in November 1989 not to privatise nuclear power stations, a decision that had prompted Marshall to resign as Chairman of the CEBG. Marshall was one of the witnesses called before the Select Committee. The Committee's findings were published on 27 June 1990 under the title 'The Cost of Nuclear Power'.

D.1-D.32	MARSHALL'S TESTIMONY
D.33-D.39	CORRESPONDENCE ARISING
D.40, D.41	REPORT OF THE ENERGY COMMITTEE
D.42-D.44	PRESS RESPONSE TO REPORT
D.45-D.47	MARSHALL'S REACTION TO PRESS RESPONSE
D.48, D.49	GOVERNMENT RESPONSE TO REPORT

D.1-D.32 MARSHALL'S TESTIMONY 1988-1990

Marshall testified on 7 February 1990.

D.1	Published transcript of Marshall's evidence	7 February 1990
D.2	Briefing documents	1990
	19 components (some handwritten), with a much	

annotated schedule inscribed 'Briefing'. 20pp.

D.3-D.31	Reference material	1988-1990
	From a folder inscribed 'Select Committee February 1990' and 'Ref'. Schedule followed by 28 components, with no. 28 ('W.M. to Prime-Minister') missing.	
D.3	Schedule of reference material Handwritten.	1990
D.4	'Members of Select Committee' Marked '1'. Information <i>re</i> the composition of the Select Committee, with profiles of individual members. 9pp.	?18 January 1990
D.5	'BNES Lecture' Marked '2'. Copy of Marshall's lecture on 'The future for nuclear power' delivered to the British Nuclear Energy Society on 30 November 1989. See also C.214-C.234, H.595-H.603. Marshall had used the occasion of this lecture to correct allegations that the CEGB had 'hidden' the true costs of nuclear power, and to explore the implications of the revisions in Government policy for the future of nuclear power and his own place in it.	1989x1990
D.6	'Phoenix Lecture' Marked '3'. Copy of Marshall's lecture on 'Privatisation and nuclear power in the UK', given at the Edison Electric Institute Chief Executive Conference, Phoenix, Arizona, US, on 11-12 January 1990. See H.604-H.608. Marshall used the occasion of this lecture to explore how, in his opinion, the decision to abandon all new nuclear power 'was forced upon the Government by the particular form of privatisation that they had chosen during the course of 1988'.	January 1990
D.7	'Decommissioning Lecture'	1989x1990

/...	Marked '4'. Lecture text and photocopy of slides used in a lecture on the future of 'Magnox [nuclear power stations]', delivered at Sizewell 'A', Suffolk, on 6 September 1989. See H.579-H.581.	/...
D.8	'Annual Report' Marked '5'. Original copy of <i>Annual Report and Accounts 1988/89</i> of the CEBG.	December 1989
D.9	'Talk to MPs at BNF on 23/Nov/88' Marked '6'. Copy of Marshall's lecture on 'Privatisation and nuclear power' at the British Nuclear Forum's Annual Symposium for Members of Parliament, London, 23 November 1988. See also H.539-H.542.	1988x1990
D.10	'Article for the <i>Observer</i> ' Marked '7'. Typescript, 3pp.	5 January 1990
D.11, D.12	'Note on Security of Supply' Unmarked, but matches item '8' on schedule. Typescript 'Security of Supply', 2pp, and memorandum on the same, circulated 21 November 1989, 8pp + 1p cover letter (D.11). Further includes typescript (11pp) of Marshall's lecture on the 'Electricity's privatisation challenge', given at the Institute of Directors' Annual Convention on 23 February 1988, and typescript 'Government privatisation proposals. Statement by the CEBG Board to staff', stamped 29 Feb 1988, 6pp (D.12). 2 folders.	1988x1990
D.13	'Hadley to Rickett on 18/May/88' Marked '9'. Copy of CEBG memorandum 'Nuclear power: risks and regulations', dated 18 May 1988, 9pp, with a cover letter from G.H. Hadley to W. Rickett. Hadley was Secretary to the CEBG, Rickett represented the Department of Energy.	1988x1990

- D.14 'Lazards Paper on Risks 23/Aug/88' 23 August
1988x1990
- Marked '10'. Photocopy of a report from the advisory investment bank Lazard Brothers & Co, Ltd on 'Nuclear generation - risk allocation on privatisation', dated 23 August 1988. 17pp.
- D.15 'Lazards Presentation to the Banks on P.W.R. Financing' October 1989
- Marked '11'. Ringbound copy of report 'National power PWR financing' by Lazard Brothers & Co, Ltd.
- D.16 'Baker to Guinness 24/Oct/88' 1988x1990
- Marked '12'. Copy of CEGB memorandum 'Block contract for nuclear', 8pp, with a 2pp cover letter from J.W. Baker to J.R.S. Guinness.
- Baker was the Corporate Management Director of the CEGB, Guinness the Deputy Secretary of the Department of Energy.
- D.17 'Baker to Guinness 11/Oct/88' 1989x1990
- Marked '13'. Copy of letter (5pp + 2pp appendix) from J.W. Baker to J.R.S. Guinness, *re* 'AGR and PWR indicative prices', dated 11 October 1989.
- Baker was writing in his capacity as Chief Executive of National Power.
- D.18 'Baker to Guinness 2/Nov/89' 1989x1990
- Marked '14'. Copy of letter (2pp + 8pp appendix) from J.W. Baker to J.R.S. Guinness, *re* 'Nuclear indicative prices', dated 2 November 1989.
- D.19 'Baker to Guinness 31/Oct/89' 1989x1990
- Marked '15'. Memorandum 'Current and future nuclear liabilities' (2pp + 1p cover letter) from J.W. Baker to J.R.S. Guinness, dated 30 and 31 October 1989 respective.

D.20	<p>'Baker to Guinness 10/July/89'</p> <p>Marked '16'. Copy of letter (4pp) from J.W. Baker to J.R.S. Guinness, dated 10 July 1989, <i>re</i> aspects of the 'Nuclear Bible with which we are in disagreement, or where we consider its coverage needs to be extended if it is to form part in resolution of the nuclear framework in a way that would be satisfactory to National Power'.</p>	1989x1990
D.21	<p>'John Wakeham's evidence to Select Committee'</p> <p>Marked '17'. Photocopy of proof of transcript of Wakeham's testimony before the Energy Committee of the House of Commons, 13 December 1989, 16pp. Annotated.</p>	1989x1990
D.22	<p>'Joint Paper CEGB/SSEB/BNFL on 3/Oct/88'</p> <p>Marked '18'. Copy of draft 'Revision of the terms of trading for the supply of nuclear fuel cycle services by BNFL to the Home Boards - status of negotiations', 12pp, with cover letters (1p + 2pp) dated 29 September and 3 October respectively.</p>	1988x1990
D.23	<p>'Townsend to Weston 28/Apr/89'</p> <p>Marked '19'. Copy of letter (2pp + 3pp appendix) from M. Townsend to B.H. Weston, <i>re</i> 'Indicative nuclear prices', dated 28 April 1989.</p> <p>Townsend was Director, Nuclear Fuel Cycle Operations Division, CEGB. Weston was Chairman, Merseyside & North Wales Electricity Board.</p>	1989x1990
D.24	<p>'Précis of Wakeham's talk on 17/Jan/90'</p> <p>Marked '20'. Typescript of report on Wakeham's statement to the Parliamentary Group for Energy Studies, 17 January 1990. 2pp.</p>	1990
D.25	<p>'Ministers Statements on Hidden Costs'</p> <p>Marked '21'. Typescript excerpts from statements made by Cecil Parkinson and John Wakeham, July-December 1989, 2pp.</p>	29 January 1990
D.26	<p>'Clements to Marshall 2/Feb/90'</p>	2 February

		1990
	Marked '22'. Original letter from A.A. Clements to Marshall <i>re</i> 'Select Committee - BNFL costs/prices', 2 February 1990. 3pp. Clements represented Nuclear Electric, a division of the CEGB.	
D.27	'BNFL to Coopers & Lybrand 27/May/88' Marked '23'. Copy of correspondence between the management consultancy firm Coopers & Lybrand, British Nuclear Fuels plc and CEGB, <i>re</i> 'Modelling of nuclear costs for privatisation', 4 May-11 July 1988. 11pp.	1988x1990
D.28	'Baker to Guinness 10/May/89' Marked '24'. Copy of letter from J.W. Baker to J.R.S. Guinness, dated 10 May 1989, <i>re</i> 'National Power capital structure'. 3pp.	1989x1990
D.29	'Clements to Wilcock 2/May/89' Marked '25'. Copy of letter from A.A. Clements to C.C. Wilcock, dated 2 May 1989, <i>re</i> 'Crystallisation of nuclear liabilities'. 1p + 5pp appendix. Clements represented the Nuclear Fuel Cycle Department, CEGB Operations Division. Wilcock represented the Department of Energy.	1989x1990
D.30	'Baker to Rickett 17/June/88' Marked '26'. Copy of letter from J.W. Baker to W.F.S. Rickett, dated 17 June 1988, <i>re</i> 'Nuclear power - risks and regulation'. 2pp + 6pp appendix.	1988x1990
D.31	'CEGB Decomm. Memo in December 20/1989' Marked '27'. Typescript 'Select Committee on Energy, CEGB addendum to Memorandum on Magnox decommissioning costs - December 1989', 2pp + 1p cover letter.	1989x1990
D.32	Additional material	1988, 1989

Two sets of handwritten speaking notes, one marked 'P.M.' '3 1/2 minutes' and dated 4 February 1988 (6pp), the other marked 'Sec of State' and dated 13 July 1989 (3pp).

D.33-D.39 **CORRESPONDENCE ARISING** **February-May 1990**

Correspondence and papers, in chronological order.

D.33 J.M.R. Wilson on the costs of nuclear power 23 February 1990

Typescript memorandum submitted to the Select Committee on 23 February 1990, with a cover letter. 17pp.

Wilson represented the firm UBS Phillips & Drew Securities Ltd.

D.34 J.G. Collier on nuclear generation in England and Wales up to and after 1994 ?March 1990

Copy of the lecture, given at the BNF 11th Annual Symposium to MPs on 27 March 1990. Sent to Marshall through A.J. Bowen. 19pp.

Collier was Chairman of the UKAEA. Bowen was Director of Financial Planning at National Power plc.

D.35 Testimony of J.M.R. Wilson and G. MacKerron April 1990

Précis of testimony given 21 March, 2pp each.

MacKerron represented the Science Policy Research Unit (SPRU), University of Sussex.

D.36 G. MacKerron on the cost of nuclear power April 1990

/... Copy of MacKerron's memorandum, submitted to the Select Committee on 13 February 1990 (23pp) and received by Marshall on 30 April 1990. /...

2 folders.

MacKerron's memorandum was 'critical of [Marshall's] figures reconciling the cost of PWR electricity as quoted at the Hinkley Point C Inquiry with the prices for PWR electricity given in Mr Baker's letter of 11 October'. The Select Committee thought Marshall should have the opportunity to comment.

D.37	Marshall's response to MacKerron	May 1990
	Handwritten notes in response (2pp), much annotated draft letter to the Select Committee (5pp), A.J. Bowen's comments (1p, remainder of letter missing), final version of Marshall's response, dated 16 May (5pp).	
D.38	Ernst & Young on 'the foreseeability of the increases in nuclear provisions'	May 1990
	Copy of report to the Department of Energy from Ernst & Young, dated 8 May 1990, and correspondence arising.	
	Ernst & Young were an international accounting and consulting firm.	
D.39	Press responses to the ongoing inquiry of the Select Committee	May 1990
	Includes annotated copy of 'Nuclear's swings and roundabouts', <i>Power in Europe</i> , 10 May 1990.	
D.40, D.41	REPORT OF THE ENERGY COMMITTEE	27 June 1990
	Bound, in two vols.	
	2 folders.	
D.42-D.44	PRESS RESPONSE TO THE REPORT	27 June-15 August 1990

Press cuttings. The bulk dates from 28 June, the day after the report came out.

3 folders.

D.45-D.47

MARSHALL'S REACTION TO PRESS RESPONSE

July 1990

Includes copy of an article by Marshall, published in the *Independent*, 3 July 1990, 15. Further includes a number of drafts (handwritten & annotated typescript) of a letter by Marshall to the *Observer*, in response to an article subtitled 'the scandal of Britain's rash adventures in nuclear power, finally exposed last week by Parliament' (*Observer*, 1 July 1990, 18).

3 folders.

D.48, D.49

GOVERNMENT RESPONSE TO THE REPORT

25 July 1990

Annotated copies of 'Government Observations on the Fourth Report from the Energy Committee (Session 1989-90) The Cost of Nuclear Power' (original fax and photocopy, 32pp + 1p each).

2 folders.

SECTION E	HOUSE OF LORDS, E.1-E.14	1985-1996
	<p>On 22 July 1985 Marshall was created Baron Marshall of Goring, of South Stoke in the County of Oxfordshire. His introduction to the House of Lords took place on 30 July, followed by his Maiden Speech on 15 October.</p> <p>Marshall's professional commitments, first as Chairman of the CEGB, then on behalf of WANO (the World Association of Nuclear Power Operators), left him little time to take (as he put it) 'a real interest in the serious work of the House of Lords' (to the Chairman of Committees, 20 March 1992, at E.12).</p>	
E.1-E.4	<p>Introduction to the House of Lords, 30 July 1985</p> <p>Correspondence and notes. Includes a letter from the Prime Minister inquiring whether Marshall was agreeable to having his name submitted, sketch of a coat of arms, arrangements for a celebratory lunch on the occasion, etc. Also includes an itinerary for the week commencing 16 July.</p> <p>4 folders.</p>	May-July 1985
E.5, E.6	<p>Maiden Speech, 15 October 1985</p> <p>Transcript of Marshall's contribution to the House of Lords' debate on nuclear fusion and the generation of electricity on 15 October. Includes published version. Also includes draft notes of the Earl of Bessborough's speech on the occasion, and correspondence arising.</p> <p>2 folders.</p>	October- November 1985
E.7-E.13	<p>Correspondence 1989-1996</p> <p>Contents of a file bearing the inscription 'House of Lords + crossbench info'.</p>	1989-1996
E.7-E.11	<p>1989-1991</p> <p>Correspondence and papers <i>re</i> bills considered by the Lords at the time, including Education (Student Loans),</p>	1989-1991

/...	Environmental Protection, and Broadcasting. E.9 is a Hampden Trust study examining 'Broadcasting and political bias'. E.10 includes correspondence with Baron Joseph <i>re</i> the future of nuclear power following privatisation.	/...
	5 folders.	
E.12, E.13	1992-1996	1992-1996
	Correspondence and papers <i>re</i> bills considered by the Lords at the time, including Kings Cross Railways, Coal Privatisation, Pensions (Amendments to War and Service Widow Pensions), and Gas.	
	2 folders.	
E.14	Miscellaneous	1985x1996
	Includes Marshall's handwritten notes on the history of Westminster Hall.	

SECTION F ROYAL SOCIETY, F.1-F.57 1972-1995

Marshall was elected a Fellow of the Royal Society in 1971.

F.1-F.41 GENERAL PAPERS

F.42-F.57 NOMINATIONS

F.1-F.41 GENERAL PAPERS 1983-1995

From a numbered series of folders labelled 'Royal Society', the first of which appears to be missing.

Correspondence and papers.

F.1-F.9 'Royal Society, Strictly Confidential, Part II, 1983' 1983

Originally in one chronological series. Rearranged into two parts for ease of access.

F.1-F.5 General 1983

Correspondence, chiefly *re* nominations and results of elections. In chronological order. F.4 is *re* the Carmarthen Bay wind turbine.

5 folders.

F.6-F.9 Engineering, Technology and Industries Committee 1983

Committee papers and correspondence. In chronological order.

4 folders.

Marshall had joined the Engineering, Technology and Industries Committee on 1 January 1983. His membership ended on 31 December 1986.

F.10-F.18	'Royal Society, Strictly Confidential, Part III, 1984'	1984
	Originally in one chronological series. Rearranged into two parts for ease of access.	
F.10-F.17	General	1984
	Correspondence and papers, chiefly <i>re</i> the Society's Statutes for the election of Fellows and the public understanding of science and technology in the UK.	
	F.13-F.15 is <i>re</i> publication of C.F. Clement's paper on 'Aerosol formation from heat and mass transfer in vapour-gas mixtures'.	
	8 folders.	
	In 1984, the Fellows revisited the history of Statute 12 and those elected under it, following a request by 40 Fellows who considered that Statute 12 should be repealed.	
	The Society had recently established an <i>ad hoc</i> Group to investigate the public understanding of science and technology in the UK.	
F.18	Engineering, Technology and Industries Committee	1984
	Committee papers and correspondence. In chronological order.	
F.19-F.41	'Royal Society, Strictly Confidential, Part IV, Jan 85-1996'	1985-1995
F.19-F.24	1985	1985
	Correspondence and papers, chiefly <i>re</i> nominations for Fellowship. Also includes correspondence <i>re</i> an Industrial Soirée to be held in March 1986 (see F.22-F.24) and 'The health of basic science', a theme on which the Society started an inquiry.	
	6 folders.	
F.25-F.31	1986	1985-1986

F.25, F.26	<p>Originally in one chronological series. Rearranged into four parts for ease of access.</p> <p>Nominations</p> <p>2 folders.</p>	1985-1986
F.27, F.28	<p>General</p> <p>Includes correspondence <i>re</i> submission of a paper by J. Gittus on PWR degraded core analysis for publication by the Royal Society.</p> <p>2 folders.</p>	1986
F.29	<p>Science and Engineering Policy Studies Unit</p> <p>Includes material <i>re</i> an appeal from the Society to CEGB for sponsorship.</p> <p>The stated aim of the Unit was to undertake investigations 'on the priorities, performance, funding and management of science and technology in the universities and research councils and the extent to which these meet national needs'.</p>	1986
F.30, F.31	<p>Public understanding of science and technology</p> <p>Chiefly <i>re</i> a plea from Marshall and the CEGB more generally for the Society to help work on public understanding of nuclear power.</p> <p>2 folders.</p> <p>At the time Marshall feared that the nuclear option of power generation would be lost altogether as a result of its negative public image following the Chernobyl reactor accident in April 1986.</p>	1986
F.32	<p>1987</p> <p>Includes correspondence <i>re</i> a discussion meeting on 'Human factors in high-risk situations'.</p>	1986-1987
F.33, F.34	<p>1988</p>	1988

F.33	Originally in one chronological series. Rearranged into two parts for ease of access. Nominations	1988
F.34	General Includes correspondence <i>re</i> wind power.	1988
F.35	1989 Correspondence <i>re</i> a lecture on 'Power generation in the future' for the Evening Technology Lectures 1991.	1989
F.36-F.38	1990 Correspondence etc. F.36 is Marshall's form for Personal Records of Fellows (see also A.3). F.37 is <i>re</i> a conference on Surface Waters Acidification at the Society, F.38 is <i>re</i> the Society's Technology Activities Committee and <i>re</i> the House of Commons Energy Committee's recent report on the Fast Breeder Reactor. In January 1990 Marshall joined the Technology Activities Committee of the Society. 3 folders.	1989-1990
F.39	1991 Correspondence, including <i>re</i> the Society's response to the House of Commons Energy Committee's report on Fast Breeder Reactors.	1991
F.40, F.41	1992-1995 Correspondence, including <i>re</i> a biographical memoir of J.M. Cassels, who died in 1994. 2 folders.	1992-1995
F.42-F.57	NOMINATIONS	1972-1978,

		1990-1995
F.42, F.43	Originally in six files. Not indexed. N.L. Franklin (1924-1986) Material <i>re</i> the nomination of N.L. Franklin, elected 1981. 2 folders.	1975-1978
F.44, F.45	Sir John Hill (1921-2008) Material <i>re</i> the nomination of Sir John Hill, elected 1981. 2 folders.	1974-1978
F.46, F.47	J. Hubbard (1931-1980) Material <i>re</i> the nomination of J. Hubbard. 2 folders.	1972-1978
F.48, F.49	R.V. Moore (1916-2003), R.W. Nichols (1923-1999) Material <i>re</i> the nomination of R.V. Moore and R.W. Nichols. 2 folders.	1972-1974
F.50	R.S. Pease (1922-2004) Material <i>re</i> the nomination of R.S. Pease, elected 1977.	1974-1977
F.51-F.57	'Royal Society Nominations, Part II, Jan '90- ' From a file so inscribed. Part I appears to be missing.	1990-1995
F.51	1990	1990
F.52, F.53	1991 2 folders.	1991

F.54	1992-1993	1992-1993
F.55, F.56	1994 2 folders.	1994
F.57	1995	1995

SECTION G PAPERS AND PUBLICATIONS, G.1-G.80 1954-1995

Contents of five numbered box files with labelled dividers,
in chronological order.

G.1-G.38	DRAFTS
G.39-G.70	OFFPRINTS
G.71-G.79	MISCELLANEOUS
G.80	DIVIDERS

G.1-G.38 DRAFTS 1955-1969

G.1, G.2	'Antiferromagnetism', <i>Proceedings of the Royal Society A</i> vol. 232 (1955), 48-68	1955
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Annotated proofs and copy of offprint.

2 folders.

G.3-G.5	'The structure of magneto-hydrodynamic shock waves', <i>Proceedings of the Royal Society A</i> vol. 233 (1956), 367- 376	1955x1956
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Annotated typescript, proofs, four original illustrations.

3 folders.

G.6	(with J. Butterworth), 'A damped-phonon theory of neutron scattering by liquids', <i>Proceedings, Conference on the Use of Slow Neutrons to Investigate the Solid State, Stockholm</i> (1957), 31-39	1957
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Duplicated typescript, 8pp.

- G.7 'The antiferromagnetism of $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ ', *Journal of Physics and Chemistry of Solids* vol. 7 (1958), 159-
/... /... Duplicated typescript, 15pp + 3pp illustrations. ?1958
- G.8 (with R.J. Weiss) 'The electronic structure of transition metals', *Journal of Applied Physics* vol. 30 (1959), 220-
Duplicated typescript, 13pp. ?1959
- G.9 'The specific heat of dilute alloys', *Physical Review* vol. 118 (1960), 1519-1523 1959
Mimeographed typescript, 6pp + 1p abstract + 1p illustration.
- G.10 (with J.P. Schiffer), 'The Debye-Waller factor in the Mössbauer Effect', unpublished note 1960
Duplicated typescript, 4pp + title sheet + 1p illustration.
- G.11-G.14 (with R. Stuart), 'The scattering of neutrons from polycrystalline materials', *Inelastic Scattering of Neutrons in Solids and Liquids* (International Atomic Energy Agency, Vienna 1961), 75-84 1960-1961, n.d.
Typescript draft (17pp + 1p abstract), mimeograph of the same (with insertions), duplicated version (as circulated at the Ernest O. Lawrence Radiation Laboratory, University of California), offprint.
4 folders.
- G.15, G.16 (with R. Stuart), 'Theory of transition ion complexes', *Physical Review* vol. 123 (1961), 2048-2058 1961
Typescript (39pp + 1p abstract), offprint.
2 folders.
- G.17, G.18 (with C.E. Johnson and G.J. Perlow), 'Electric quadrupole moment of the 14.4-keV state of Fe^{57} ', *Physical Review* 1962

	vol. 126 (1962), 1503-1506	
/...	Mimeographed typescript (7pp + 1p abstract + 5pp acknowledgements, references and illustrations), offprint. 2 folders.	/...
G.19, G.20	(with C.E. Johnson), 'Hyperfine field in metals and alloys', <i>Journal de Physique et le Radium</i> vol. 23 (1962), 733-737 Typescript (13pp + 1p abstract + 1p illustration), original illustration. 2 folders.	?1962
G.21	(with C.E. Johnson and G.J. Perlow), 'Mössbauer Effect of Fe57 in hexagonal cobalt', American Physical Society Meeting, Washington DC, US, 22-25 April 1963 Duplicated typescript of abstract, 1p.	18 January 1963
G.22	'Spin ordering', <i>Proceedings of the 8th International Conference on Low Temperature Physics, London, 16-22 September</i> , ed. R.O. Davies (1963), 215- Duplicated typescript, 12pp + 1p abstract + 3pp illustrations.	September 1962
G.23, G.24	'The study of solids and liquids using thermal neutrons', <i>Advancement of Science</i> (July 1965), 186-194 Duplicated typescript (15pp + 1p captions), offprint. 2 folders.	1964-1965
G.25, G.26	'Dynamics of magnetic systems investigated by Mössbauer and neutron scattering experiments', <i>Inelastic Scattering from Neutrons</i> vol. 1 (International Atomic Energy Agency, Vienna 1965), 399-412 Duplicated typescript (17pp), offprint. 2 folders.	1965

- G.27 (with R.N. Stuart), 'Theory of superexchange', unpublished (1965) ?1965
Duplicated typescript, 14pp + 1p abstract.
- G.28-G.30 'Critical scattering of neutrons by ferromagnets', *Conference on Critical Phenomena* (National Bureau of Standards Misc. Pub. 273, 1966), 135-143 1966, n.d.
Duplicated typescript (bound), original illustration, offprint.
3 folders.
- G.31-G.33 (with G. Lang), 'Mössbauer Effect in some haemoglobin compounds', *Proceedings of the Physical Society* vol. 87 (1966), 3-34
Original typescript (20pp + 10pp illustrations), offprint.
3 folders.
- G.34, G.35 (with J. Als-Nielsen, O.W. Dietrich and P.A. Lindgård), 'Inelastic critical scattering of neutrons from terbium', *Solid State Communications* vol. 5 (1967), 607-611 1967
Duplicated typescript (7pp + 1p title + 1p captions), illustrations.
2 folders.
- G.36 'Neutron elastic diffuse scattering from mixed magnetic systems', *Journal of Physics C (Proceedings of the Physical Society)* ser. 2, vol. 1 (1968), 88-101 1968
Duplicated typescript, 30pp.
- G.37, G.38 (with P.A. Lindgård), 'Covalency and exchange polarization in MnCO_3 ', *Journal of Physics C (Proceedings of the Physical Society)* ser. 2, vol. 2 (1969), 276-287 1969
Duplicated typescript (29pp + 4pp illustrations), offprint.

G.39-G.70	2 folders. OFFPRINTS	1954-1972
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In chronological order. Some are not originals.

32 folders.

G.71-G.79	MISCELLANEOUS	1971-1995
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Printed and photocopied material.

9 folders.

G.80	DIVIDERS	1954x1995
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Original set, multiply inscribed. See also A.8 (original finding aid).

SECTION H	LECTURES, H.1-H.727	1968-1995
	In chronological order. Items H.17-H.726 were found in a series of box files so inscribed.	
H.1	'Talk to the Refractories Association', March 1968 Typescript.	1968
H.2	'Harwell and industrial research', Sixth Maurice Lubbock Memorial Lecture, 9 May 1969 Offprint.	1969
H.3	(with F.J.P. Clarke) 'Planning for technological change', Conference, <i>Strategic Planning for the Seventies</i> , 7 July 1970 Typescript draft.	1970
H.4	'A nuclear laboratory changes direction', Rheinisch-Westfälische Akademie der Wissenschaften, West Germany, 7 July 1971 Typescript. Includes an abstract.	1971
H.5	'Technical spin-off from nuclear research and development', Symposium of Advanced British Technology, Hamburg, West Germany, 20-23 September 1971 Typescript draft (with annotations in Marshall's hand) and offprint.	1971
H.6	'Industrial research programme at Harwell', Licensing Executive Society, 26 January 1972 Typescript draft (with annotations in Marshall's hand) and	1972

photocopy of offprint.

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| H.7, H.8 | ‘Interaction between government laboratories and industry: lessons from Harwell’s experience’, National Academy of Sciences, Washington, US, 22 October 1973

Typescript and offprint. Also includes original illustrations (3 monochrome photographs).

2 folders. | 1973 |
| H.9 | [‘Stretching energy independence’], <i>New Scientist</i> Conference, <i>Towards a Self-sufficient Britain?</i> , 19 March 1975

Typescript of the lecture and photocopy of the article in the <i>New Scientist</i> , 20 March 1975. | 1975 |
| H.10 | ‘The nuclear share of world electricity’, European Nuclear Conference, Paris, France, 21-25 April 1975

Typescript. Also includes briefing document for the lecture. | 1975 |
| H.11 | ‘Why government must get involved in the nuclear industry and to what extent’, Symposium <i>Crisis in the Nuclear Industry?</i> , Gottlieb Duttweiler Institute, Zurich, Switzerland, 26-28 February 1976

Typescript. Also includes later correspondence. | 1976, 1987-1989 |
| H.12 | ‘Energy for today, tomorrow and the day after’, Annual Chemical Congress, Chemical Society and Royal Institute of Chemistry, Glasgow, 5-9 April 1976

Typescript. | 1976 |
| H.13 | [Keynote address], Symposium on <i>Renewable Sources of Energy</i> , Royal Society of Arts, 16 June 1976

Typescript. Also includes figures. | 1976 |

H.14 /...	[Untitled], <i>Financial Times</i> Lunchtime Talk, 8 July 1976 Typescript.	1976 /...
H.15, H.16	'Energy research', Unwin Memorial Lecture, London, 28 September 1976 Typescript and offprint. 2 folders.	1976
H.17	[Opening remarks], Press Conference on <i>Wind Energy</i> , 22 June 1977 Typescript.	1977
H.18	'Current questions on nuclear power', Lecture Series <i>Energy and Related Problems</i> , University of Cambridge, 14 November 1977 Correspondence, copy of the lecture programme. Lecture text missing.	1977
H.19	[Untitled], Shrewsbury, 3 February 1978 Handwritten draft.	1978
H.20-H.22	'Nuclear power and the proliferation issue', Graham Young Memorial Lecture, University of Glasgow, 24 February 1978	1978
H.20	Lecture Handwritten outline and offprint.	1978
H.21, H.22	'Scientific American Correspondence' Correspondence <i>re</i> an article on nuclear proliferation for the <i>Scientific American</i> . Includes additional material, notably handwritten drafts of	1978-1980, n.d.

/...	two undated lectures given at the Uranium Institute and GAO (the US General Accounting Office) respectively. 2 folders.	/...
	The text of the Graham Young Memorial Lecture was published in the magazine <i>Atom</i> vol. 258 (April 1978), 78-102.	
H.23	'Nuclear power and the proliferation issue', Brookhaven, US, March 1978 Handwritten outline.	1978
H.24	'The United Kingdom's nuclear power programme and its justification', Applied Sciences Society, University of Sussex, 24 April 1978 Handwritten draft. Also includes correspondence.	1977-1978
H.25	'Current questions on nuclear power', Physics Society, Eton College, 26 April 1978 From a folder so inscribed. Handwritten draft. Also includes correspondence.	1978
H.26	'Current questions on nuclear power', Cranfield Materials Society, Cranfield Institute of Technology, Bedfordshire, 4 May 1978 Handwritten outline and flyer. Also includes correspondence.	1978
H.27	'Current questions concerning nuclear fuel supplies', Joint Conference of the London Oil Analyst Group and the National Association of Petroleum Investment Analysts, London, 30 May 1978 Handwritten outline. Includes correspondence and an overview of the conference programme.	1978
H.28	'Nuclear power and the proliferation issue', York, 31 May 1978	1977-1978

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| H.29 | <p>Handwritten outline. Also includes correspondence.
'Current questions concerning nuclear power', University of Oxford, 2 June 1978</p> <p>From a folder so inscribed. Handwritten outline. Includes correspondence.</p> | 1977-1978 |
| H.30 | <p>'Nuclear power and non-proliferation', Uranium Institute Lecture, London, 10 July 1978</p> <p>From a folder so inscribed. Typescript.</p> | 1978 |
| H.31 | <p>'Current issues in nuclear power', Open Lecture, University of Kent, Canterbury, 3 November 1978</p> <p>From a folder so inscribed. Handwritten outline. Includes correspondence.</p> | 1977-1978 |
| H.32 | <p>'Energy R&D', IVA, Stockholm, Sweden, 9 November 1978</p> <p>From a folder so inscribed. Handwritten outline, transparency ('United Kingdom R&D expenditure'), and additional material.</p> <p>IVA stands for '[Kungl.] Ingenjörsvetenskapsakademien', the Royal Swedish Academy of Engineering Sciences.</p> | 1978? |
| H.33 | <p>'Nuclear power and the proliferation issue', Norwegian Atomic Energy Society Lecture, Oslo, Norway, 13 November 1978</p> <p>From a folder so inscribed. Handwritten draft and correspondence. Also includes press coverage.</p> | 1978 |
| H.34, H.35 | <p>'UK fast breeder programme', South Bank Polytechnic, London, 23 November 1978</p> <p>Typescript and handwritten outline.</p> <p>Includes five monochrome photographs (four of them mounted) and one colour photograph.</p> <p>2 folders.</p> | 1978 |

H.36	<p>'Fast breeders - a controversial necessity', Forum on <i>Nuclear Power in Wales</i>, Cardiff, 8 December 1978</p> <p>From a folder so inscribed. Handwritten outline and correspondence.</p>	1978, 1980
H.37	<p>'Work of UKAEA', National Young Conservatives Weekend Conference, Oxford, 9-10 December 1978</p> <p>From a folder so inscribed. Handwritten outline. Includes a note by Marshall on government attitudes towards the fast reactor.</p>	1978
H.38	<p>'Pros and cons of nuclear power', Lecture Series <i>Science, Technology and Society 1979</i>, University of Cambridge, 5 February 1979</p> <p>From a folder so inscribed. Handwritten draft, copy of the programme for the lecture series, correspondence.</p> <p>Marshall was unwell and his colleague J.G. Collier stood in for him.</p>	1979
H.39, H.40	<p>'Aspects of nuclear power', William Menelaus Memorial Lecture, South Wales Institute of Engineers, Cardiff, 21 February 1979</p> <p>From a folder so inscribed. Handwritten outline, typescript of final text (dated 27 March 1979). Includes photographic illustrations (three monochrome, one in colour). Also includes correspondence <i>re</i> arrangements for the lecture and <i>re</i> subsequent distribution of the text.</p> <p>2 folders.</p> <p>William Menelaus was the first President of the South Wales Institute of Engineers.</p>	1979
H.41, H.42	<p>'Nuclear fuel cycles in the future', Symposium on Peaceful Uses of Atomic Energy, Seoul, South Korea, 13 April 1979</p> <p>Handwritten outline and typescript of final version. Includes three monochrome photographic illustrations. Also includes correspondence.</p>	1978-1979
/...	2 folders.	/...

H.43	[Untitled], Rotary Club of Caversham, Berks, 30 May 1979	1978-1979
	From a folder so inscribed. Correspondence. Lecture text missing.	
H.44	'Three Mile Island lecture', AERE Harwell, 4 June 1979	1979
	From a folder so inscribed. Handwritten draft, with appended illustrations.	
H.45	'Nuclear power - the way ahead', First McLintock Lecture, North East Wales Institute, Kelsterton College, Clwyd, 2 July 1979	1979
	Handwritten draft and correspondence. Also includes a copy of the menu from the dinner on the occasion.	
H.46	'Talk to Young Conservatives', Meeting of the Young Conservatives and Federation of Conservative Students, Blackpool, 8 October 1979	1979
	Handwritten draft and correspondence.	
H.47	['CHP'], District Heating Association, 23 October 1979	1979
	From a folder so inscribed. Handwritten draft. Also includes draft of two undated lectures on Combined Heat and Power.	
H.48-H.52	'The use of plutonium', Fifth Chancellor's Lecture, University of Salford, 29 October 1979	1978-1981
H.48	Correspondence	1978-1979
H.49	Lecture	1979 /...
/...	Handwritten outline, correspondence arising and press coverage.	

H.50-H.52	Published versions of the lecture	1980-1981
	<p>Copy of the April 1980 number of the magazine <i>Atom</i> featuring Marshall's lecture, typescript of the version published by the University of Salford (including a typescript of what made the 'Salford' version different from the 'Atom' version), and copy of the published version as distributed by the University of Salford.</p> <p>3 folders.</p>	
H.53	[Untitled], Abingdon School, Abingdon, Oxon, 27 November 1979	1979
	<p>From a folder so inscribed. Handwritten draft, correspondence.</p>	
H.54	'Energy', Staff Conference, The School, Shrewsbury, 10-11 January 1980	1979-1980
	<p>Handwritten outline, correspondence.</p>	
H.55	'Current Issues', Conservative Party Energy Group, House of Commons, 31 January 1980	1980
	<p>From a folder so inscribed. Handwritten outline.</p>	
H.56	'Combined Heat and Power', Science Policy Research Unit (SPRU), University of Sussex, 12 February 1980	1979-1980
	<p>Handwritten outline.</p>	
H.57	'Energy - the use of plutonium', Royal College of Defence Studies, London, 22 February 1980	1979-1980
	<p>Correspondence. Lecture text missing.</p>	
H.58	'Nuclear energy in the 21st century', Conference to Celebrate the 20th Anniversary of the Central Bureau for Nuclear Measurements, Geel, Belgium, 28 April 1980	1979-1980

	Correspondence. Includes a microfiche of Marshall's lecture.	
H.59	<p>'Proliferation and waste disposal', British Nuclear Forum to the TUC Fuel & Power Industries, 30 April 1980</p> <p>Correspondence, copy of the programme, notes on speakers etc. Also includes Marshall's instructions for transparencies/slides. Lecture text missing.</p>	1980
H.60	<p>'Nuclear policy', <i>Seminar SS33: Energy</i>, Civil Service College, Sunningdale Park, Berks, 7-9 May 1980</p> <p>Correspondence, copy of the programme, list of participants. Lecture text missing.</p> <p>Marshall gave his lecture on 9 May.</p>	1980
H.61, H.62	<p>'Energy in the 21st century', Public Policy Series on <i>Energy & International Affairs</i>, New York University, US, 20 May 1980</p> <p>Typescript of the final version, correspondence, copy of the programme of the lecture series etc. Also includes information on Marshall's respondent on the occasion, Z. Nagorski.</p> <p>2 folders.</p>	1980
H.63-H.66	<p>'Some questions and answers concerning fast reactors', Fifth Cockcroft Memorial Lecture, given at the Annual Meeting of the British Nuclear Energy Society, Institution of Civil Engineers, London, 22 May 1980</p>	1979-1980
H.63	<p>Lecture</p> <p>Typescript.</p>	1980
H.64 H.65, H.66	<p>Correspondence Offprints etc.</p> <p>Includes the September 1980 issue of the magazine <i>Atom</i> (where the lecture appeared in abridged form) and</p>	1979-1980 1980

the October 1980 issue of *Nuclear Energy. Journal of the British Nuclear Energy Society* (where it was reproduced in full).

2 folders.

H.67-H.69	<p>'Nuclear power from the world perspective', 48th Annual Convention of the Edison Electric Institute, <i>Energy Decisions for the Next Decade</i>, Chicago, US, 9-11 June 1980</p> <p>Marshall delivered his lecture on 10 June.</p>	1979-1980
H.67	<p>Correspondence</p> <p>Covers arrangements for the lecture, its enthusiastic reception, publication of the lecture text and of the film recording from the occasion, etc.</p> <p>The film project failed.</p>	1979-1980
H.68	<p>Lecture</p> <p>Typescript. Includes editorial correspondence.</p>	1980
H.69	<p>Conference proceedings</p> <p>Copy of the proceedings, published under the title <i>Energy Decisions for the Next Decade</i>.</p>	1980
H.70, H.71	<p>'Is nuclear power a viable energy option?', Debate with representatives of the Ecology Movement, King's School, Canterbury, Kent, 7 October 1980</p> <p>Handwritten notes for the discussion and correspondence. Includes a dossier of background material, such as pamphlets (by the activist organisation Ecoropa and the UKAEA), an assessment of N. Hildyard by the Market Intelligence Section of the UKAEA, etc.</p>	1980
/...	<p>2 folders.</p> <p>Hildyard was the co-editor of the radical magazine <i>Ecologist</i>.</p>	/...

H.72	<p>'Politics and economics of the plutonium economy', Oxford Politics and Economics Society, Oxford, 28 October 1980</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p>	1980
H.73	<p>'The plutonium economy', Annual Meeting of the Royal Society of Chemistry, Industrial Division, Environment Group, Scientific Societies Lecture Theatre, London, 27 November 1980</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p>	1980
H.74	<p>'Weapons proliferation after INFCE', Conference, <i>Nuclear Power: Problems and Implications</i>, University of Sussex, Falmer, 29 November 1980</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval. Also includes copy of the programme, list of participants and a 'glossary for conference members'.</p> <p>Topics covered by the correspondence include arrangements for planting 'people in the audience with appropriate questions and comments'.</p> <p>INFCE (International Nuclear Fuel Cycle Evaluation) was set up in 1977 in response to rising concern about the risks of proliferation of nuclear weapons from nuclear power fuel cycles and international disagreement on how these risks were to be met.</p>	1980
H.75	<p>'Nuclear power in the next century', Lecture Series, <i>Energy: Alternatives for the Future</i>, University of Oxford, Department for External Studies, 5 December 1980</p>	1980
/...	<p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p>	/...

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| H.76 | <p>'The plutonium economy', Technische Hochschule Darmstadt, Darmstadt, West Germany, 6 February 1981</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p> | 1980-1981 |
| H.77 | <p>'Energy opportunities in the UK', Monthly Colloquium of the British Oxygen Company, Royal Institution, London, 12 February 1981</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p> | 1980-1981 |
| H.78 | <p>'The use of plutonium', Lecture Course <i>Pressures on World Stability</i>, Royal College of Defence Studies, London, 24 February 1981</p> <p>Correspondence. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p> | 1981 |
| H.79 | <p>'Nuclear safety and the transport of nuclear waste', All Party Group for Energy Studies, House of Commons, 6 May 1981</p> <p>Correspondence and background materials. Lecture text missing.</p> <p>Includes dossier on history of the subject in House of Commons discussions. Also includes copies of memos on transport of Magnox spent fuel flasks.</p> | 1980-1981 |
| H.80
/... | <p>'Problems of nuclear industry, or, Progress report from Dr Marshall, or, What we have to do for a public enquiry starting on 4 October 1982', Presentation to Norman Lamont, 24 June 1981</p> <p>Set of sixteen cue cards.</p> <p>At the time, Lamont was Under-Secretary of State for Energy.</p> | 1981
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| H.81 | <p>'Nuclear energy', Third Oxford Energy Seminar, <i>World Energy Options and Policies</i>, Oxford, 14-25 September 1981</p> <p>Correspondence, copy of the programme, list of speakers. Lecture text missing.</p> <p>Includes schedule of slides and instructions for their retrieval.</p> <p>Marshall delivered his lecture on 17 September.</p> | 1981 |
| H.82 | <p>[Untitled], European Atomic Forum (Foratom) Luncheon, London, 25 September 1981</p> <p>Handwritten notes and correspondence.</p> | 1981 |
| H.83 | <p>[Radio talk on nuclear power], broadcast on BBC Radio 4, 24 October 1981</p> <p>Correspondence arising from the broadcast.</p> | 1981 |
| H.84 | <p>'The Sizewell PWR', British Nuclear Forum Symposium on Nuclear Power, 28 October 1981</p> <p>Correspondence, copy of the conference programme, list of delegates etc. Lecture text missing.</p> <p>Includes synopses of presentations by other speakers and typescript on 'Nuclear power and the electricity supply industry' (by J. Baker).</p> <p>The symposium was for MPs. PWR stands for Pressurised Water Reactor.</p> | 1981 |
| H.85 | <p>[Untitled], Energy Matters Seminar, Cambridge University Industrial Society, Cambridge, 10 November 1982</p> <p>Handwritten draft, correspondence.</p> | 1981 |
| H.86 | <p>'Atomic energy and industry: the future of the pressurised</p> | 1981-1982 |

water reactor in Britain', Centenary Briefing, London Chamber of Commerce and Industry, London, 16 November 1981

Correspondence etc. Lecture text missing.

Includes schedule of slides and instructions for their retrieval. Also includes copy of the press summary 'Public statement by the Chairman of the PWR Task Force' (20 January 1982)

As Chairman of the UKAEA (1981), it fell to Marshall to preside over the new Task Force to sort out disagreements over the design for a 'British PWR', i.e. a PWR that satisfied British nuclear safety philosophies. Marshall's PWR Task Force settled the design of Sizewell B.

H.87	'UK plutonium stocks: is it an indigenous reserve of energy fuel or a hazard?', All-Party Minerals Committee, House of Commons, 24 February 1982	1982
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Correspondence. Lecture text missing.

H.88	['The PWR'], Central Electricity Generating Board Local Advisory Committee Annual Open Meeting, Barnwood, Gloucestershire, 1 March 1982	1981-1982
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Handwritten outline and correspondence *re* a talk about the PWR as seen by [Dr Marshall] in his capacity of Chairman of the PWR Task Force'. Also includes copy of 'The Sizewell 'B' PWR. Public statement by the chairman of the PWR Task Force', dated 20 January 1982.

Lecture text missing.

H.89	[Untitled], Conservative Committee on Energy, House of Commons, 4 March 1982	1982
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/...	Correspondence. Lecture text missing. Marshall was asked 'to give a general up-to-date picture of the role nuclear energy is currently playing in meeting the electricity requirements of the UK with particular reference being given to the proposed PWR at Sizewell and the current AGR programme'.	/...
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H.90-H.93	'Problems of introducing new technology', Symposium,	1981-1982
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PWR and the UK, University of Birmingham, 24 March 1982

Report on the work of the task force that co-ordinated the design and safety aspects of the proposed Sizewell PWR.

H.90	Correspondence	1981-1982
	Includes an early outline of Marshall's lecture, proofs of his slides, etc.	
H.91	Storyboard	1982
	Set of colour photographic reproductions of the lecture slides.	
H.92	Lecture transcript	1982
	From a sound recording of the proceedings. Includes a synopsis.	
H.93	Offprint	1982
	Lecture text as published in <i>Nuclear Energy</i> vol. 21 (December 1982), 371-376.	
H.94	[Dinner speech], Annual Meeting of Nuclear Engineering Educationalists, Cambridge, 31 March-2 April 1982	1982
	Handwritten outline and correspondence. Includes copies of the programme, list of participants, etc.	
	Marshall delivered his lecture on 1 April 1982.	
/...	The Nuclear Engineering Educationalists convened in Cambridge to mark the 50th anniversary of Chadwick's discovery of the neutron.	/...
H.95-H.98	'How safe is nuclear power?', Royal Overseas League, London, 19 April 1982	1981-1982
H.95	Correspondence	1981-1982

Chiefly *re* arrangements.

H.96	Lecture script 'Speaking notes for the Chairman to use as a basis for his talk', dated 7 April 1982.	1982
H.97	Instructions for ?slides Handwritten cards.	1982?
H.98	Storyboard Set of photographic reproductions of the lecture slides, in colour.	1982
H.99, H.100	'PWR project in the UK', Opening Address, Conference, <i>Pressurized Water Reactor in the United Kingdom</i> , Institution of Mechanical Engineers, London, 11 May 1982	1981-1982
H.99	Correspondence Covers arrangements for the lecture and subsequent distribution of the lecture text. Includes list of participants, copy of the provisional programme, lecture text, etc.	1981-1982
H.100	Storyboard Set of photographic reproductions of the lecture slides, in colour.	1982
H.101, H.102	'The PWR project in the UK', Presentation to the Chinese Science and Technology Delegation, ?May 1982 From a folder so inscribed. List of the delegates, bound booklet of the lecture slides, storyboard. 2 folders.	1982
H.103	[Untitled], Employees' National Committee, Electricity	1982

Supply Industry, London, 15 June 1982

Correspondence. Lecture text missing.

H.104	[Conference review], <i>Foratom VIII: Nuclear Energy - Europe and the World</i> , Lausanne, Switzerland, 20-24 June 1982	1982
	Correspondence, copy of the programme. Text of Marshall's conference review missing.	
	Also includes copy of a paper on 'Energy and the Third World' from the inaugural session, by J. Grawe, the Director of the Federal Ministry for Economic Cooperation and Development (BMZ), Bonn, West Germany.	
H.105-H.107	'Design and safety of the Sizewell PWR', Royal Society Evening Technology Lecture, London, 29 June 1982	1982-1983
H.105	Correspondence	1982
	Chiefly <i>re</i> arrangements.	
H.106	Lecture	1982
	Includes a handwritten outline and a storyboard (with annotations).	
H.107	Transcript and offprint	1982-1983
H.108-H.112	'Neutrons and nuclear power', Conference, <i>The Neutron and Its Applications</i> , Fiftieth Anniversary of the Discovery of the Neutron, University of Cambridge, 13-17 September 1982	1981-1983
/...		/...
	Marshall delivered his lecture on 15 September.	
H.108, H.109	Correspondence	1981-1982
	Covers planning of the meeting, the focus of Marshall's lecture, Marshall's unsuccessful attempts to find a suitable stand-in (he had other, pressing commitments), research into the historical background of the lecture topic, etc. Includes an exchange with Marshall's doctoral	

supervisor R.E. Peierls on the need to use appropriate language when explaining nuclear safety not only to the 'grand public', but also to 'numerate people'.

2 folders.

The Cambridge conference overlapped with a meeting in Vienna, Austria, where Marshall had likewise agreed to speak (see H.113-H.121). This was also the period of Marshall's transition from Chairman of the UKAEA to that of the CEGB.

H.110	Storyboard	1982
	Set of photographic reproductions of the lecture slides, in colour. Also includes a card with notes in Marshall's hand.	
H.111	Published version	1982-1983
	Typescript marked 'Cambridge lecture final text' and copy of offprint (1983).	
H.112	Additional material	1982
	Copy of the 'Neutron 50th anniversary issue' of the <i>Physics Bulletin</i> vol. 33 (August 1982).	
H.113-H.121	'Big nuclear accidents', International Atomic Energy Agency (IAEA) Conference, <i>Nuclear Power Experience</i> , Vienna, Austria, 13-17 September 1982	1981-1983
	Marshall delivered his lecture on 17 September.	
H.113, H.114	Correspondence	1981-1983
	Includes a copy of the provisional programme.	
	2 folders.	
H.115	Storyboard	1982
H.116	Lecture text	1982

Typescript marked 'Master copy with tracings' (from a folder so inscribed).

H.117	Conference report	1982
	Typescript of a report by S. Eklund, former Director of the IAEA.	
H.118	Responses to the lecture	1982
	Correspondence.	
H.119-H.121	Published versions of the lecture	1982-1983
	Copies of the following:	
	W. Marshall, 'Talking about accidents', <i>Atom</i> no. 312 (October, 1982);	
	W. Marshall, with D.E. Billington, R.F. Cameron, and S.J. Curl, 'Big nuclear accidents', UKAEA Harwell publication AERE-R 10532 (September 1983);	
	W. Marshall, 'Big nuclear accidents', <i>Nuclear Power Experience</i> vol. 4 (International Atomic Energy Agency, Vienna, 1983), 53-69.	
	3 folders.	
H.122	[Untitled], Lecture given at a Seminar of the Electrical Power Engineers' Association (EPEA), 11 October 1982	1982
/...	Correspondence. Lecture text missing. No further information.	/...
H.123, H.124	'The need for energy now and in the future', National Union of Townswomen's Guild Conference, Institution of Civil Engineers, London, 14 October 1982	1982
	Lecture text missing.	
H.123	Correspondence	1982

H.124	Storyboard Includes Marshall's instructions for slides.	1982
H.125	[Opening remarks], Management Conference, Central Electricity Generating Board, South Eastern Region, Barnet, Hertfordshire, 4-5 November 1982 Handwritten draft, copy of the programme, correspondence.	1982
H.126	'The implication of private generation on electricity and the electricity supply industry', Parliamentary All Party Minerals Group, 17 November 1982 Typescript of the address, handwritten notes, correspondence, etc.	1982
H.127	'The case for nuclear power', Bow Group's Energy Standing Committee, London, 22 November 1982 Bound booklet with copies of the lecture slides, correspondence.	1982
H.128	'Progress of the PWR', Select Committee on Energy, House of Commons, 2 December 1982 Copy of the Minutes of Evidence as published. Includes a letter by Marshall, 6 January 1983, expanding further on the subject of the costs of the PWR proposed for construction at Sizewell.	1983 /...
/...	Marshall reported in his capacity as Chairman of the Central Electricity Generating Board and of the PWR Task Force.	
H.129	[After dinner speech], British Nuclear Energy Society - British Nuclear Forum Dinner, London, 2 December 1982 From a folder so inscribed. Correspondence. Text of the speech missing.	1982

H.130, H.131	'Electricity generation in the future', Parliamentary Liaison Group for Alternative Energy Strategies (PARLIGAES), London, 6 December 1982	1982
H.130	Correspondence Covers arrangements and background research on the forum in question as well as on the topic of the talk.	1982
H.131	Lecture Handwritten draft. Also includes a typescript of speech notes prepared for the occasion by CEGB's Department for Information and Public Affairs.	1982
H.132	[Untitled], AGM of the HQ Managerial Section of the EPEA, Sudbury House, London, 13 December 1982 Correspondence, including <i>re</i> the forum and how Marshall might want to introduce himself. Lecture text missing.	1982
H.133	['PWR project'], Energy Industries Club Luncheon, London, 14 December 1982 Correspondence, handwritten notes. Script missing.	1982
H.134	['PWR project'], Reading Chamber of Commerce and Trade, Johnson Matthey Research Centre, Reading, 19 January 1983 Correspondence, handwritten notes, instructions for slides. Lecture text missing.	1982-1983
H.135	[Untitled], Conservative Backbench Energy Committee, House of Commons, 3 February 1983 Correspondence only.	1983

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| H.136 | [Address], Management Conference, CEGB Midlands Region, St Albans, Hertfordshire, 2-3 March 1983

Photocopy of handwritten draft, copy of the programme, correspondence.

Marshall delivered his address on 2 March. | 1983 |
| H.137 | ‘How safe is nuclear power’, Oxford Medical Society, 11 March 1983

Photocopy of the storyboard, correspondence. | 1982-1983 |
| H.138 | [Untitled], General Management Course, Henley Management College, Henley-on-Thames, Oxfordshire, 9 March 1983

Correspondence. Also includes an (annotated) typescript of a briefing document which Marshall pronounced ‘super’. | 1982-1983 |
| H.139, H.140 | ‘The risks of nuclear electricity in perspective’, The Argonauts, 17 March 1983

Handwritten draft and correspondence. Also includes a photocopy of <i>Power of Atomic Energy. A Reappraisal</i> (1958) by F.A.A. Menzler.

2 folders.

Menzler was the Founder-Chairman of the Argonauts, a dining club for actuaries. | 1983 |
| H.141-H.143 | ‘Production of electricity using breeder reactors’, Panel on <i>Development Strategy of Fast Breeder Reactors</i> , Japan Atomic Industrial Forum (JAIF) Conference, Tokyo, Japan, 23-25 March 1983

From a folder so inscribed. Marshall delivered his paper on 23 March. | 1983 |
| H.141, H.142 | Correspondence

Includes briefing documents.

2 folders. | 1982-1983 |

H.143	Lecture	1983
	Typescript, dated 17 March 1983.	
	Also includes a copy of the slides presented by H. Denton in the session 'Towards the goal of nuclear safety' on 25 March.	
	Denton was Director of the Office of Nuclear Reactor Regulation, US Nuclear Regulatory Commission.	
H.144-H.146	[Untitled], Ninth Annual Delegate Conference of the EPEA, York, 28-30 March 1983	
	Marshall delivered his address on 28 March.	
	At the time, controversy over nuclear power was reaching new heights with the screening of a World in Action programme that raised doubts about the ethics of an attempt to sell a PWR to China.	
H.144	Correspondence	1983
	Includes detailed briefing documents.	
H.145	Lecture	1983
	Typescript. Also includes press response.	
H.146	Miscellaneous	1983
	Additional material on the meeting.	
H.147	['The future of the Generating Board and how it might affect Headquarters'], Annual Conference, CEGB Headquarters Local Joint Co-ordinating Council (LJCC), Sudbury House, London, 11 April 1983	1983
	Typescript draft and photocopy of handwritten notes. Includes correspondence and advance questions.	
H.148, H.149	[Untitled], Annual Luncheon, Institute of Energy, London, 12 April 1983	1983

Handwritten draft, briefing notes, correspondence. Also includes background material.

2 folders.

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| H.150 | <p>['Current thinking in CEGB, with particular reference to PWR'], Annual Open Meeting, LJCC, CEGB Generation Development and Construction Division, Barnwood, Gloucestershire, 13 April 1983</p> <p>Correspondence, handwritten draft and typescript of Marshall's address. Includes a list of advance questions <i>re</i> the CEGB's plans for operations at Barnwood. See also H.181, H.182.</p> <p>At the time there were press speculations <i>re</i> a major reshuffle of engineering management responsibilities within the CEGB.</p> | 1983 |
| H.151 | <p>'Dinorwig Press Day', Dinorwig, Wales, 10 May 1983</p> <p>Typescript of extensive briefing document with Marshall's annotations. Also includes a draft of arrangements for the Press Day.</p> <p>Dinorwig, then Europe's largest hydro-electric pumped storage station, was commissioned in 1983.</p> | 1983 |
| H.152 | <p>['The role of the CEGB'], Eastern Electricity Managerial Conference, Essendon, Hertfordshire, 30 June 1983</p> <p>Handwritten draft subtitled 'Reflections on my first year'. Also includes correspondence.</p> <p>This talk was recycled on other occasions around this time. See H.155, H.156.</p> | 1983 |
| H.153 | <p>[Untitled], Dennis Lomer's retirement, 30 June 1983</p> <p>Typescript. Also includes an annotated briefing document for the occasion.</p> | 1983 |
| H.154 | <p>[Untitled], Bradwell 21st Anniversary Lunch, Bradwell</p> | 1983 |

Power Station, Essex, 1 July 1983

Typescript of Marshall's speech (with annotations), correspondence, etc. Includes a transcript of a news clip re the occasion, broadcast on ITV Anglia later that day.

Bradwell power station was a twin Magnox reactor nuclear power station. It was decommissioned in 2002. The occasion of its 21st anniversary of going on load coincided with Marshall's first anniversary as Chairman of the CEBG.

H.155 [‘The role of the CEBG’], London Electricity Managerial Conference, *Improving Productivity and Reducing Bureaucracy*, Bricket Wood, Hertfordshire, 4-5 July 1983 1983

Photocopy of handwritten draft (previously used on 30 June 1983; see H.152). Correspondence, conference programme, etc.

Marshall delivered his presentation on 4 July.

H.156 [‘The role of the CEBG’], North West Region Managerial Conference, Hertfordshire, 7-8 July 1983 1983

Photocopy of handwritten draft (previously used on 30 June and 4 July; see H.152, H.155). Correspondence, conference programme, list of delegates, etc.

Marshall delivered his presentation on 7 July.

H.157 [Untitled], CEBG South Western Region Local Joint Co-ordinating Council (LJCC), 26 September 1983 1983

Briefing documents (‘Talk to South West Region LJCC’, ‘Suggested response to questions raised by SW region staff’, ‘The impact of privatisation’). Also includes copy of a report on the meeting.

Handwritten draft of the lecture: found at H.164.

H.158-H.160 ‘Understanding nuclear energy’, Foundation Endowment Seminar, *Challenges to the United States and Western Europe: The Final Two Decades of the 20th Century*, Windsor, 11-14 October 1983 1983-1985

Marshall delivered his lecture on 11 October.

The Foundation Endowment was a newly incorporated

	American non-profit organisation with right-wing sympathies.	
H.158	Correspondence Chiefly <i>re</i> invitation and arrangements. Also includes background research on the Foundation Endowment.	1983
H.159	Lecture Handwritten draft, transcript provided by the Endowment Foundation and Marshall's own version.	1983
H.160	Correspondence arising Correspondence <i>re</i> a second invitation to speak at a Foundation Seminar (this time on the topic of 'Outer space'). Marshall declined on the grounds of scheduling conflicts but recommended alternative speakers and topics.	1985
H.161-H.163	[Introduction], CBI Conference, <i>Combined Heat and Power - New Opportunities for Industry</i> , London, 26 October 1983	1983
H.161, H.162	Correspondence Includes various drafts of Marshall's speech and comments on them. Also includes details about the conference (including list of delegates, abstracts etc.). 2 folders.	1983
H.163	Lecture Handwritten draft.	1983
H.164	[Untitled], CEGB North Western Regional JCC, Lymm, Cheshire, 7 November 1983 Handwritten draft (previously used on 26 September; see H.157). Also includes correspondence and copy of the	1983

programme.

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| H.165-H.168 | <p>'Nuclear energy and the environment', Conference, <i>Energy and Our Future Environment</i>, Institute of Energy, London, 8-9 November 1983</p> <p>Marshall delivered his lecture on 8 November.</p> | 1982-1983 |
| H.165 | <p>Correspondence</p> <p>Covers arrangements and briefing communications.</p> | 1982-1983 |
| H.166, H.167 | <p>Lecture</p> <p>Handwritten outline, storyboard, typescript of the lecture (with illustrations).</p> <p>2 folders.</p> | 1983 |
| H.168 | <p>Correspondence arising</p> <p>Includes comments on the lecture text.</p> | 1983 |
| H.169 | <p>[Response], Sub-Conference, <i>Sizewell and the Future of Nuclear Generation</i>, National JCC for Great Britain, Barbican Centre, London, 10 November 1983</p> <p>Extensive notes (in Marshall's hand) on the back of the extended version of the conference programme.</p> <p>Also includes copy of the discussion paper to which Marshall responded, 'Sizewell B and the future of nuclear generation', given by J.W. Baker.</p> | 1983 |
| H.170 | <p>[Opening address], Parliamentary Scientific Committee Seminar, <i>The Future of Nuclear Energy</i>, House of Commons, 23 November 1983</p> <p>Handwritten notes on cue card, correspondence, and copy of the programme. Also includes a typescript of the lecture for publication in the Committee's journal <i>Science in Parliament</i>.</p> | 1983 |

The seminar was originally planned for 17 May but had to be postponed due to the calling of the General Election and the dissolution of Parliament on 13 May.

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| H.171 | <p>[Untitled], AGM of the Headquarters Section of the Electrical Power Engineers' Association (EPEA), Sudbury House, London, 5 December 1983</p> <p>Handwritten draft, briefing material, correspondence.</p> | 1982-1983 |
| H.172 | <p>Annual Presentation Night, Kingsbury High School, London, 14 December 1983</p> <p>Handwritten draft, notes (on back of programme booklet), correspondence.</p> <p>Marshall acted as Visiting Speaker and Prize Giver on the occasion.</p> | 1983 |
| H.173 | <p>[Untitled], Conservative Party Energy Group, House of Commons, 15 December 1983</p> <p>Handwritten notes, briefing documents, correspondence.</p> | 1983 |
| H.174 | <p>[Untitled], Managers Meeting, 31 January 1984</p> <p>Typescript.</p> | 1984 |
| H.175 | <p>[Untitled], Coal Industry Society Luncheon, London, 6 February 1984</p> <p>Annotated typescript, correspondence. Also includes briefings and contemporary press clipping <i>re</i> tensions between the National Union of Mineworkers (NUM) and the National Coal Board (NCB).</p> <p>Eventually these tensions would lead to the 1984-1985 Miners' Strike.</p> | 1982-1984 |
| H.176 | <p>[Untitled], Poynting Physical Society Annual Dinner, Birmingham, 9 February 1984</p> <p>Correspondence.</p> | 1983-1984 |

The Poynting Physical Society was a student society that was based at the University of Birmingham Department of Physics.

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| H.177 | [Address], Presentation Ceremony and Dinner, Silver Jubilee of the Department of Nuclear Science and Technology, Royal Naval College, Greenwich, 16 February 1984

Handwritten draft, correspondence, etc. | 1983-1984 |
| H.178 | ‘Energy - the role of plutonium’, Lecture Course <i>Pressures on World Stability</i> , Royal College of Defence Studies, London, 24 February 1984

Instructions for slides, correspondence. Also includes information <i>re</i> the course. See also H.214, H.215, where this presentation appears to have been recycled. | 1983-1984 |
| H.179 | [Untitled], JAIF Conference, Tokyo, Japan, 13-15 March 1984

Typescript. | 1984 |
| H.180 | [Untitled], Annual Meeting of Employees, CEGB North Eastern Region Local Joint Co-ordinating Council (LJCC), 28 March 1984

Handwritten draft, briefing documents, speaking notes (including suggested answers to advance questions), correspondence, etc. | 1983-1984 |
| H.181, H.182 | [Untitled], Annual Open Meeting, LJCC, CEGB Generation Development and Construction Division, Barnwood, Gloucestershire, 4 May 1984

Handwritten draft, briefing documents, correspondence. See also H.150.

2 folders. | 1984 |
| H.183-H.185 | [Address], National Conference for the Electric Supply Industry, Scarborough, 14-15 May 1984 | 1983-1984 |

From a folder inscribed 'EETPU Conference'. EETPU stands for Electrical, Electronic, Telecommunication and Plumbing Union.

H.183	Correspondence etc Includes briefing notes, copy of the agenda etc.	1983-1984
H.184	Address Handwritten draft, published transcript.	1984
H.185	Correspondence arising Includes Union information.	1984
H.186	[Untitled], Labour Energy Committee, 21 May 1984 From a handwritten draft.	1984
H.187, H.188	[Untitled], Annual Meeting of Employees, Electricity Supply Industry Midlands Region LJCC, Ratcliffe-on-Soar Power Station, Nottinghamshire, 25 May 1984 Handwritten draft, briefing documents, correspondence, 2 folders.	1983-1984
H.189	'Public acceptance of nuclear power', Annual Meeting of the American Nuclear Society (ANS), New Orleans, US, 4 June 1984 Storyboard.	1984
H.190	['The presentation and vocabulary of risk analysis'], Presentation at the request of J.S. Gummer MP, 11 July 1984 Correspondence etc re PWR safety. Also includes photocopied material presumably used on the occasion.	1984

The context was the Sizewell Inquiry, a public inquiry of the Department of Energy that considered the need for the proposed Sizewell PWR in the light of the government's long-term energy policy, the safety of the design, waste management etc. Sizewell was located in the constituency of J.S. Gummer MP.

H.191, H.192	<p>['Lecture for video The Public Acceptance of Nuclear Power'], London, 19 September 1984</p> <p>From a folder so inscribed. Correspondence, briefing material, storyboard (annotated).</p> <p>2 folders.</p> <p>The lecture was recorded 'for future use both inside and outside the CEGB'.</p>	1984
H.193	<p>['The future of the CEGB'], Annual Conference, Electricity Supply Industry Midlands Region JCC, Drakelow Power Station, Staffordshire, 25 September 1984</p> <p>Handwritten draft, briefing documents (including speaking notes), correspondence etc.</p>	1984
H.194	<p>['Freedom of the City of London'], 10 October 1984</p> <p>Handwritten note from the occasion.</p>	1984
H.195, H.196	<p>'Nuclear power in the UK', Tenth Annual Meeting of the Sociedad Nuclear Española (Spanish Nuclear Society), Madrid, Spain, 16-18 October 1984</p>	1984
H.195	<p>Correspondence</p> <p>Includes speaking notes, briefing on electricity supply in Spain, copy of the programme etc.</p>	1984
H.196	<p>Storyboard</p> <p>Illustrates nuclear power in photographs of UK power stations, graphics and tables.</p>	1984
H.197	<p>['Farewell to Mr Porteous'], 29 October 1984</p>	1984

From a folder so inscribed. Handwritten speaking notes, correspondence.

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| H.198 | [Keynote address], Management Conference, Northwestern Electricity Board (NORWEB), Chorley, Lancashire, 1 November 1984

Handwritten speaking notes, briefing documents, correspondence. | |
| H.199 | [After dinner speech], Third Dinner, Royal Naval Engineer Officers Dining Club, Royal Institution of Chartered Surveyors, London, 8 November 1984

Correspondence. Includes a copy of the menu.

Marshall was the guest of honour on the occasion. | 1983-1984 |
| H.200-H.202

/... | 'What is right with nuclear power?', Annual Conference of the Atomic Industrial Forum, Washington, US, 12 November 1984

The conference was held in collaboration with the Japan Atomic Industrial Forum (JAIF) and the European Atomic Forum (Foratom). | 1984-1985

/... |
| H.200 | Correspondence

Includes briefing documents. | 1984-1985 |
| H.201 | Lecture

Typescript, with instructions for slides. | 1984 |
| H.202 | Storyboard | 1984 |
| H.203 | [Toast], Annual Dinner, Institution of Mechanical Engineers 15 November 1984

Briefing documents, correspondence.

Briefing communication includes <i>re</i> 'if it would be worth | 1984 |

trying out the outside speechwriter we have discussed'.

H.204, H.205	<p>['The CEGB - the way ahead'], Annual Conference, Electricity Supply Industry South Eastern Region JCC, Barbican Centre, London, 27 November 1984</p> <p>Extensive briefing documents (including a question and answers brief), speaking notes, correspondence. Also includes a conference pack.</p> <p>2 folders.</p> <p>Marshall was encouraged to discuss 'the philosophy of the Board's proposed reorganisation and its effect on the JCC machinery; the impact on the Board of government policies, including privatisation; future tariff structures; environmental issues, including acid rain; and the future development of nuclear generation'.</p>	1984
H.206-H.208	<p>['Industrial opportunities of the Sizewell PWR'], British Nuclear Forum Annual Symposium for Members of Parliament, London, 28 November 1984</p>	1984-1985
H.206	<p>Correspondence</p> <p>Includes briefing documents (including notes on particular MPs), copy of the programme, list of delegates, table plan, list of 'topics and issues on which MPs have expressed an interest'.</p>	1984
H.207	<p>'Chairman's remarks'</p> <p>Typescript. Also includes correspondence arising, list of MPs (and their research assistants) who attended the symposium, and a copy of the published report on the symposium.</p>	1984
H.208	<p>Transcript of the meeting</p> <p>46pp.</p>	1985
H.209	<p>[Toast], Annual Banquet, Birmingham Chamber of Commerce and Industry, Birmingham, 15 January 1985</p> <p>Correspondence.</p>	1984-1985

H.210-H.212	<p>[Untitled], Conservative Backbench Energy Committee, House of Commons, 14 February 1985</p> <p>Handwritten speaking notes, extensive briefing material, correspondence, etc.</p> <p>Includes a much marked copy of the House of Commons First Report from the Energy Committee, Session 1984-1985, <i>Reports and Accounts of the Electricity and Gas Industry for 1983-1984</i>.</p> <p>3 folders.</p>	1984-1985
H.213	<p>'The introduction of the PWR into the UK', University of Birmingham Founder's Day Dinner, Birmingham, 16 February 1985</p> <p>Typescript of the lecture (marked 'final original'), correspondence.</p>	1984-1985
H.214, H.215	<p>'Nuclear energy', Lecture Course <i>Pressures on World Stability and Resources</i>, Royal College of Defence Studies, London, 20 February 1985</p> <p>See also H.178, H.307, H.308.</p>	1984-1985
H.214	<p>Correspondence</p> <p>Also includes course information, list of students, etc.</p>	1984-1985
H.215	<p>Storyboard</p> <p>This appears to have been used for Marshall's lecture a year earlier (see H.178).</p>	1984-1985
H.216, H.217	<p>['End of Sizewell Inquiry press conference'], 7 March 1985</p> <p>Handwritten speaking notes, extensive (annotated) briefing material <i>re</i> 'Media questions in the aftermath of the coal dispute' etc. Also includes a script for an eight-minute film for lead item on Channel 4 News at 7 p.m. that day.</p>	1985

2 folders.

H.218-H.223 'North West Wales and the CEGB', Visit to Trawsfynydd, Wales, 15 March 1985 1985

The context of this visit was the impending closure of the Magnox power station at the location.

H.218-H.220 Briefing material 1985

Briefing folder with five dividers labelled 'Programme and people', 'Technical briefs', 'Q&A', 'Press details', 'Note by S.C. Goddard'.

3 folders.

H.221 Correspondence 1985

Also includes guest list, CEGB press information on the 'Future of electricity generation in North West Wales', etc. Storyboard

H.222, H.223 1985

2 folders.

H.224 [Speech], Unidentified occasion, H.M. Yacht Britannia, Portugal, March 1985 1985

Handwritten speaking notes, table plan.

H.225 'Fifty years of the National Grid', Press Conference for the Fiftieth Anniversary of the National Grid, 9 April 1985 1985

Typescript draft (annotated) and copy of booklet from the occasion, R. Cochrane, *Power to the People. The Story of the National Grid* (1985).

H.226-H.232 'Electricity in the UK', Lord Nelson of Stafford Lecture, Institution of Electrical Engineers, London?, 11 April 1985 1984-1985

H.226 Correspondence 1984-1985

Includes Marshall's synopsis, briefing documents, etc.

H.227-H.230	Storyboard 4 folders.	1985
H.231, H.232	Lecture text Transcript, correspondence <i>re</i> video of the lecture, typescript of version published in <i>IEE Proceedings</i> . 2 folders.	1985
H.233, H.234	[Opening address], Major Achievement Symposium on the Dinorwig Power Station, Institution of Mechanical Engineers, London, 16-17 April 1985 Briefing documents, correspondence, copy of the programme. Also includes copy of the published proceedings.	1984-1985
H.235-H.240	'The introduction of the PWR in the UK', Seminar, <i>The Pressurised Water Reactor and the United Kingdom</i> , University of Birmingham, 22-23 April 1985	1984-1986
H.235	Correspondence Includes briefing documents, conference flyer, programme etc.	1984-1985
H.236-H.238	Storyboard Includes handwritten speaking notes. 3 folders.	1985
H.239	Correspondence arising Includes comments on the nuclear reactor accident in Chernobyl, Soviet Union, on 26 April 1986.	1985-1986
H.240	Copy of the proceedings	1986

H.241-H.249	<p>'Public fear and understanding of new technology', Fison Memorial Lecture, Guy's Tower, Guy's and St Thomas's Hospitals, London, 9 May 1985</p> <p>The Fison Memorial Lecture was named after the physicist Alfred Henry Fison. Marshall accepted the invitation to lecture, declining to give the Larmour Lecture at the Queen's University of Belfast.</p>	1984-1985
H.241-H.243	<p>Correspondence</p> <p>Includes extensive briefing material, including <i>re</i> the health impact of the Three Mile Island accident and other, non-nuclear accidents such as the 1979 'Mississauga miracle', which involved the derailment of a train transporting butane and other flammables, and 90 tons of chlorine.</p> <p>3 folders.</p> <p>The derailment in Mississauga, Canada, involved several explosions with one car found in a field a kilometre away.</p>	1984-1985
/...	<p>The accident was termed a miracle because no one was hurt. Marshall used both these accidents, Three Mile Island and Mississauga, in his presentation.</p>	/...
H.244-H.248	<p>Storyboard</p> <p>Includes handwritten annotations.</p> <p>5 folders.</p>	
H.249	<p>Correspondence arising</p>	1985
H.250-H.254	<p>'Public acceptance of nuclear power and the meaning of reactor safety', Fifth Pacific Basin Nuclear Conference, South Korea, 19-23 May 1985</p>	1985
H.250	<p>Correspondence</p>	1985
H.251	<p>Draft lecture</p>	21 March 1985
H.252, H.253	<p>Storyboard</p>	1985

Includes handwritten speaking notes.

2 folders.

H.254	Press coverage of the conference In English and ?Korean.	1985
H.255	[Untitled], Advanced Management Programme, Staff College of the National Coal Board, The Vache, Chalfont St Giles, Buckinghamshire, 17 June-12 July 1985 ?Speaking notes, correspondence, programme. Marshall had been asked to speak on 'Future trends in electricity generation and the implications for electricity sector management', but indicated that he preferred to 'talk more generally about management style, drawing on [his] personal experiences ... in the energy sector'. /...	1985 /...
H.256-H.258	'Power and responsibility', Conference, <i>Sustainable Development in an Industrial Economy</i> , UK Centre for Economic and Environmental Development, Queen's College, Cambridge, 23-25 June 1985 Marshall delivered his lecture on 24 June.	1985
H.256	Correspondence Includes a delegates list and a copy of the programme.	1985
H.257	Storyboard Three sets (labelled A1, B and C) of photographs with cue cards, in original order. Includes a photocopy (A2) of the order in which set A1 may have been presented on the occasion.	1985
H.258	Transcript Typescript of Marshall's lecture, for publication.	1985

H.259, H.260	<p>[Address], Annual Conference, Electricity Council Yorkshire and North Eastern Region JCCs, University of York, 23 September 1985</p> <p>Typescript speaking notes (annotated), briefing documents including advance questions, correspondence etc.</p> <p>2 folders.</p>	1985
H.261, H.262	<p>[Summary], British Nuclear Forum Annual Symposium on Nuclear Power for Members of Parliament, London, 24 October 1985</p> <p>Handwritten notes, published version of Marshall's summary, briefing material etc.</p>	1985
/...	2 folders.	/...
H.263	<p>Annual School, Electrical Power Engineers' Association (EPEA), Oxford, 20-24 November 1985</p> <p>Correspondence, copy of the programme. Includes draft of report on the meeting in the magazine <i>Electrical Power Engineer</i>.</p> <p>Marshall delivered his talk on 23 November.</p>	1985
H.264-H.271	<p>'The engineering challenge of the electrical industry', The Second McKechnie Lecture, University of Liverpool, 27 November 1985</p> <p>The McKechnie Lecture was set up by the Faculty of Engineering at the University of Liverpool to deal with modern developments and future trends in engineering.</p>	1984-1985
H.264, H.265	<p>Correspondence</p> <p>Briefing material (including arrangements in the event of a demonstration), correspondence, list of dinner guests etc.</p> <p>2 folders.</p>	1984-1985

H.266-H.271	Storyboard 6 folders.	1985
H.272	[Speech], Visit to Fiddler's Ferry Power Station, Cheshire, 28 November 1985 From a folder so inscribed. Typescript of speech (sequence of slides marked on margin).	1985
H.273, H.274	[Address], Presentation of Fellowship Awards, Engineering Industry Training Board, London, 28 November 1985 Typescript of draft speaking notes (annotated) and other briefing documents, correspondence, copy of the programme, seating plan.	1985
/...	2 folders.	/...
H.275-H.280	'Public understanding of science - examples from electricity', Royal Overseas League, London, 9 December 1985	1985
H.275	Correspondence	1985
H.276-H.280	Storyboard 5 folders.	1985
H.281-H.288	'Coal and electricity', <i>Coaltech '85: Fifth International Conference and Exhibition on Coal Utilisation and Trade</i> , Wembley Conference Centre, London, 11-13 December 1985 Marshall delivered his lecture (one of the keynote presentations) on 11 December.	1985
H.281, H.282	Correspondence Includes briefing documents, copy of the catalogue, etc.	1985

H.283-H.287	Storyboard With typescript ?speaking notes. 5 folders.	1985
H.288	Lecture for publication Typescript.	1986
H.289	['Talk to staff'], Visit to Hinkley Point B Power Station, Somerset, 30 December 1985 Handwritten speaking notes, briefing documents, draft press statement, correspondence. The context of Marshall's visit was an incident at the plant on 25 October, which had received much publicity and the critical attention of J. ('Paddy') Ashdown MP.	1985 /...
H.290	'Public acceptance of nuclear power and the meaning of reactor safety', Lecture, Institute of Nuclear Power Operations (INPO), Atlanta, Georgia, US, 1985 Colour photocopy of the storyboard.	1985
H.291	[Toast], Electrical and Electronics Industries Benevolent Association (EEIBA) Banquet, Cardiff Castle, 31 January 1986 Correspondence. This was the inaugural EEIBA Dinner. For the Marshalls the occasion was combined with the rugby game (Wales v. Scotland) on 1 February.	1985-1986
H.292-H.306	'Electricity, nuclear power and nuclear waste', Tizard Memorial Lecture, Westminster School, London, 6 February 1986 Lecture 'on radioactive waste management which will convey to non-specialists a realistic perspective of the risk involved'. Marshall's Tizard Memorial Lecture was also known as the 'Garden Lecture' and the 'NIMBY Lecture'. The	1985-1988

names respectively referred to Marshall's argument about naturally occurring radioactivity (i.e. in one's garden) and to what he identified as 'Not In My Back Yard' (NIMBY) objections to the risk posed by nuclear energy and nuclear waste. Marshall gave the lecture (or versions of it) on many occasions, notably at Eton (see H.320-H.323). Illustrations with live Geiger readings formed a regular feature of his performances. See also H.405.

H.292	Correspondence	1985-1986
	Correspondence, briefing material, CEGB press release. Also includes a response to the lecture, published in <i>The Elizabethan</i> , the Westminster School magazine.	
H.293	Speaking notes	1986
	Handwritten notes, including stage directions to self.	
H.294-H.301	Storyboard	1986
	Includes notes, some handwritten. 8 folders.	
H.302	Transcript of the lecture	12 February 1986
	Marked 'rough transcript (not checked)'.	
H.303	Video of the lecture	March 1986
	Memorandum. Video missing.	
H.304	Published version	June 1986
	Copy of the reprint from the magazine <i>Atom</i> .	
H.305	<i>Your Radioactive Garden: Nuclear Waste in Perspective</i> (CEGB, 1987)	?1987
	Booklet based on the lecture.	

H.306	<p>'Updated NIMBY Lecture'</p> <p>From a note marked 'Up to date Changes on 1/March/88' (in Marshall's hand). Lecture text with technical appendices.</p>	June 1988
H.307, H.308	<p>'Nuclear energy', Lecture Course <i>Pressures on World Stability and Resources</i>, Royal College of Defence Studies, London, 12 February 1986</p>	1985-1986
H.307 /...	<p>Correspondence</p> <p>Includes course information, list of students, etc.</p>	1985-1986 /...
H.308	<p>Storyboard</p>	1986
H.309-H.314	<p>'The PWR', Parliamentary Group for Energy Studies, 26 February 1986</p>	1985-1986
H.309	<p>Correspondence</p> <p>Includes briefing documents, CEGB report on the meeting, list of those present.</p>	1985-1986
H.310	<p>Lecture text</p> <p>Typescript and summary.</p> <p>Copies of this document were issued on the occasion.</p>	1986
H.311	<p>Storyboard</p> <p>With extensive handwritten notes.</p>	1986
H.312	<p>Published version of the lecture</p> <p>Copy of the magazine <i>Energy Focus</i> vol. 3 (July 1986).</p>	July 1986

H.313, H.314	Additional material Copies of the following documents: <i>Nuclear Power: Consolidation or Change?</i> (South of Scotland Electricity Board, 1986); and E. Edmundson, <i>AGR - the Present Position</i> (CEGB, January 1986). 2 folders.	1986
H.315	[Reply to the toast], Mess Dinner, Royal Naval Engineering College, Manadon, Plymouth, 6 March 1986	1985-1986
H.316, H.317	Correspondence etc. 'Electricity, nuclear power and nuclear waste', Southern Electricity Board, ?Maidenhead, Berkshire, 27 March 1986	1985-1986
H.316	Correspondence Includes some briefing material and instructions for slides.	1985-1986
H.317	Storyboard	1986
H.318	'Reprocessing and the CEGB', THORP Contract Signing, 24 April 1986 Two typescripts, one so inscribed, the other inscribed 'THORP contract signing ... Chairman's opening statement'. THORP stands for 'Thermal Oxide Reprocessing Plant', a complex then under construction at Sellafield, Cumbria. The contract in question was for the CEGB's spent fuel from the AGR power stations to be processed by BNFL in their projected Sellafield plant.	1986
H.319	[Untitled], SBK Dinner, 28 April 1986 Typescript speaking notes (with annotations). SBK stands for 'Schnell-Brüter-Kernkraftwerks-Gesellschaft', i.e. 'Fast Breeder Reactor Company'.	1986

H.320-H.323	<p>'Electricity, nuclear power and nuclear waste', Eton College, 30 April 1986</p> <p>See also H.292-H.306. For a film of the lecture, see K.7.</p>	1986
H.320	<p>Correspondence</p> <p>Includes correspondence with and <i>re</i> the wider public whom Marshall hoped to instruct on nuclear energy and nuclear waste.</p>	1986
H.321, H.322	<p>Storyboard</p> <p>2 folders.</p>	1986
H.323	<p>Lecture transcript</p>	27 May 1986
H.324, H.325	<p>['Remarks'], Luncheon, British Nuclear Forum Annual General Meeting, 1 May 1986</p> <p>Speaking notes, some briefing material, transcript of actual speech, correspondence, etc.</p> <p>2 folders.</p> <p>It is unclear if a speech had originally been planned, or what that speech would have covered. In the event the content of Marshall's remarks at this luncheon was determined by the nuclear reactor accident in Chernobyl, Soviet Union, on 26 April 1986.</p>	1986
H.326-H.328	<p>['Chernobyl and its implications for public confidence in nuclear power'], Parliamentary All Party Minerals Group, 21 May 1986</p> <p>Speaking notes, report on the occasion, etc.</p> <p>Includes various CEGB statements on the Chernobyl accident (with schematic drawings of the Chernobyl reactor and other reactor types).</p> <p>3 folders.</p>	1986

H.329	[Speech], Opening of the Marshall Laboratory at Dounreay, Caithness, 23 May 1986 Typescript. The Dounreay Laboratory was a fast reactor fuel cycle development laboratory. At the time it was one of the most advanced facilities in the world for investigations into the reprocessing of fast reactor fuel and the treatment of radioactive waste from fast reactors. It has since been decommissioned.	1986
H.330-H.335	'Nuclear: energy today and tomorrow', European Nuclear Conference (ENC), Geneva, Switzerland, 1-6 June 1986 The conference was a joint operation of the European Nuclear Society (ENS), its American equivalent (ANS) and Foratom. The original arrangement had been for Marshall to provide 'a "tour d'horison" of the world nuclear scene' in his introductory keynote address. In the aftermath of the Chernobyl accident there was much debate whether such a talk would be appropriate and how the opening session of the conference might be used instead.	1984-1987
H.330-H.332	Correspondence Includes briefing material. 3 folders.	1984-1986
H.333	Conference programme Copy of <i>Nuclear Europe</i> vol. 5 (May 1986). This was the journal of the ENS.	1986
H.334	Lecture Typescript.	1986
H.335	Additional material Copy of a paper on reprocessing and waste management in the Federal Republic of Germany, by Marshall's German colleague C. Salander.	1986

H.336-H.339	<p>Oxford Union Debate 'That civilian nuclear Power is neither safe nor essential', Oxford Union Society, Oxford, 20 June 1986</p> <p>Marshall's opponent in this debate was Petra K. Kelly, former leader of the German Green Party. Other featured speakers were American Congressman Jim Weaver, Lynn Draper of the US Atomic Energy Commission, Stewart Boyle of Friends of the Earth, Stanley Johnson (Vice-Chairman of the Euro-Parliament Environment Committee, and Winner of the 1984 Greenpeace Prize), Peter Taylor of the Critical Ecology Research Group, Anthony Goodman (Ex-President of the Oxford Union), and Murry Pittcock of Balliol.</p> <p>The voting was 181 for the motion (i.e. antinuclear), and 138 against the motion, a result that was deemed 'credible' by Marshall's Technical Support Unit. The audience included 'a large section which seriously applauded P. Taylor's ... departure into mythological and astrological aspects of nuclear power'.</p>	1986
/...		/...
H.336	<p>Correspondence</p> <p>Includes some briefing material and flyers.</p>	1986
H.337	<p>Briefing file</p> <p>Contents of a binder with labelled dividers. Original arrangement retained and inscriptions reproduced on separate folders. Originally each sheet was encased in a translucent polythene sleeve.</p> <p>Contains extensive briefing documents and supporting material, including photographs.</p> <p>1 wallet containing 9 sleeves.</p>	1986
H.338	<p>Speaking notes</p> <p>Handwritten.</p>	1986
H.339	<p>Transcript of the debate</p>	3 July 1986

Typescript, 166pp + 4pp.

The transcript was provided by P. Boghosin, Executive Producer of the company televising the debate. The televised programme was introduced by Peter Jay.

H.340-H.343	['The hazards of civil nuclear power in the light of the Chernobyl disaster'], Parliamentary and Scientific Committee, House of Commons, 1 July 1986	1986
/...	The Parliamentary and Scientific Committee was 'an unofficial group of both Houses of Parliament and British members of the European Parliament, representatives of certain scientific and technical institutions, some science-based companies and universities and polytechnics'. In addition to Marshall, the Committee heard evidence from the physicist J. H. Fremlin.	/...
H.340	Correspondence	1986
H.341	Speaking notes Handwritten. Also includes a typescript of Marshall's talk.	1986
H.342	Report on the occasion Prepared by CEGB employee D.H. Ratledge.	14 July 1986
H.343	Additional material Copy of a statement <i>re</i> Chernobyl (author unknown), report on Marshall's address to the Parliamentary All Party Minerals Group on 21 May 1986, copy of press cuttings from June 1986.	1986
H.344, H.345	[Untitled], Advanced Management Programme, Staff College of the National Coal Board, The Vache, Chalfont St Giles, Buckinghamshire, 30 June-31 July 1986 Marshall delivered his lecture on 3 July.	1986
H.344	Correspondence Includes handwritten speaking notes, copy of the	1986

programme, etc.

H.345	Additional material	1986, n.d.
	Includes copy of Marshall's statement to the Select Committee on Energy, 19 March [?1986], copy of CEGB press release on CEGB's new 5-year agreement on coal, dated 5 June 1986.	
H.346-H.348	[Untitled], ENEL International Meeting of Nuclear Energy Producers, Venice, Italy, 16-18 July 1986	1986
	ENEL (Ente Nazionale per l'Energia Elettrica) had been founded in 1962 as a government company. The purpose of the conference was for European utilities to 'get together and be seen to be getting together in the light of all that has happened at Chernobyl'.	
H.346	Correspondence	1986
	Includes briefing material, lists of participants, etc.	
H.347	Marshall's notes	1986
	Handwritten ?speaking notes and notes from the ?conference.	
H.348	Marshall's contribution	1986
	Transcript (with Marshall's corrections) and amended version.	
H.349-H.352	[Untitled], Visit on the occasion of the Board Meeting of the Eastern Electricity Board, Ipswich, 24-25 July 1986	1986
H.349-H.351	Correspondence	1986
	Includes briefing material, copy of the programme, etc.	
	3 folders.	
H.352	Storyboard	1986

H.353	[Banquet speech], Eleventh Annual Symposium of the Uranium Institute, Guildhall, London, 4 September 1986 Handwritten speaking notes, transcript of the speech, etc.	1986
H.354	'Electricity, nuclear power and nuclear waste', Northern Branch of the Institute of Engineers and British Nuclear Energy Society, Muriel Stott Conference Centre, University of Manchester, 11 September 1986 Instructions for slides. Also includes briefing material and correspondence.	1986
H.355, H.356	'Electricity, nuclear power and nuclear waste', Sir John Deane's College, Cheshire, 12 September 1986	1986
H.355	Correspondence Includes briefing material.	1986
H.356	Storyboard	1986
H.357-H.361	'Acid rain: the political challenge. An industry viewpoint', NSCA Conference on Acid Rain, City Conference Centre, London, 19 September 1986 See also C.104-C.116. NSCA stands for National Society for Clean Air.	1986-1987
H.357-H.359	Correspondence Includes copy of programme, list of delegates, etc. 3 folders.	1986
H.360	Draft of lecture Two typescripts, one dated, the other bearing Marshall's	1986

corrections.

H.361	Published version	1987
	Copy of the conference proceedings.	
H.362, H.363	'Electricity, nuclear power and nuclear waste', Gloucestershire Engineers Luncheon Club, 3 October 1986	1986
H.362	Correspondence	1986
	Includes briefing material.	
H.363	Storyboard	1986
H.364, H.365	'Electricity, nuclear power and nuclear waste', Goring & Streatley Amenity Association, Goring Village Hall, Goring, Oxon, 16 October 1986	1985-1986
H.364	Correspondence	1985-1986
H.365	Storyboard	1986
H.366, H.367	'Electricity, nuclear power and nuclear waste', Kingston Polytechnic, Kingston upon Thames, 23 October 1986	1986
H.366	Correspondence	1986
	Includes briefing material and instructions for slides.	
H.367	Storyboard	1986
H.368, H.369	'Nuclear power today', Thirtieth Anniversary of Japan Atomic Energy Commission (JAEC), Tokyo, Japan, 31 October 1986	1986

H.368	Draft Annotated typescript.	26 October 1986
H.369 /...	Final version Includes diagrams on the topics 'Defence in depth in nuclear power plants in Japan' and 'Areas where the Chernobyl reactor did not meet Japanese criteria'.	1986 /...
H.370-H.376	['The Chernobyl accident'], Debate on Nuclear Power in Europe, House of Lords, 20 November 1986	1986-1987
H.370	?Speaking notes Notes in Marshall's hand. Also includes annotated list of speakers.	1986
H.371, H.372	Transcript Typescript transcript of Marshall's contribution to the debate (with annotations in his hand) and copy of Hansard version of the debate. 2 folders.	1986
H.373	'The Chernobyl accident' Typescript based on Marshall's contribution to the House of Lords debate. Also includes copy of CEBG pamphlet of the same title, subtitled <i>In the public debate on the future of nuclear power, it will be important to answer the question: "Could Chernobyl happen here?"</i> .	1986
H.374	'Comments on the Chernobyl accident by the Chairman' Typescript, marked 'circulated on 7 January 1987'.	January 1987
H.375	'Foreward[sic]' Typescript of statement by Marshall <i>re</i> Chernobyl.	n.d.

H.376	Additional material	October 1986
/...	Annotated copy of booklet <i>Chernobyl</i> , written by Marshall's colleagues J.G. Collier and L.M. Davies, and produced by the Generation Development and Construction Division of CEGB.	/...
H.377-H.380	['The Chernobyl accident'], British Nuclear Forum Eighth Annual Symposium on Nuclear Power for Members of Parliament, London, 25 November 1986 Marshall's talk was based on his contribution to the House of Lord's Debate on 20 November.	1986-1987
H.377, H.378	Correspondence Includes copy of programme, list of participants etc. 2 folders.	1986
H.379	Published report on the symposium	1986?
H.380	'In the shadow of Chernobyl' Newspaper article by Marshall, <i>Independent</i> , 21 November 1986. Also includes response by J. Edmonds, <i>Independent</i> , 4 December 1986.	1986
H.381, H.382	'Electricity, nuclear power and nuclear waste', Presentation to Lord Weinstock, 1 Stanhope Gate, London, 26 November 1986	1986
H.381	Briefing	1986
H.382	Presentation Set of photographic reproductions of slides, bound into a booklet.	1986

H.383	[Untitled], Seminar on Nuclear Energy, Carlton Club Political Committee, Carlton Club, London, 1 December 1986 Correspondence.	1986
H.384, H.385	'Electricity, nuclear power and nuclear waste', Halley Lecture, St Paul's School, London, 4 December 1986	1986
H.384	Correspondence	1986
H.385	Storyboard Includes annotated ?speaking cards.	1986
H.386	['Electricity, nuclear power and nuclear waste'], London Electricity Board, 9 December 1986 Set of photographic reproductions of slides, bound into a booklet.	1986
H.387-H.392	'Science and energy', Presidential Address to Association for Science Education, University College, Cardiff, 3 January 1987 Marshall was President of the Association in 1987.	1986-1987
H.387, H.388	Correspondence Includes briefing material. 2 folders.	1986-1987
H.389	Lecture outline Typescript.	1986
H.390	Storyboard Includes speaking cards (some handwritten).	1986x1987

H.391	Published version Proofs and final version.	1987
H.392	Additional material Copy of <i>Education in Science</i> No. 116 (January 1986). <i>Education in Science</i> was the official means by which the Association for Science Education communicated with its members.	1986
H.393	'Electricity, nuclear power and nuclear waste', 13 January 1987 Set of photographic reproductions of slides, bound into a booklet. No further information <i>re</i> the occasion.	1987
H.394	[Dinner speech], House Dinner of the 1900 Club, Carlton Club, London, 26 January 1987 Includes handwritten speaking notes.	1986-1987
H.395-H.400	'Atomic energy for peaceful purposes', European Atlantic Group, London, 29 January 1987 The occasion was originally planned as an address to the European Atlantic Group at their meeting in the Grant Committee Room of the House of Commons. Owing to 'Parliamentary exigencies' Marshall had to postpone. Instead, he spoke off the record at a private dinner at St Ermin's Hotel, London.	1986-1987
H.395-H.397	Correspondence 3 folders.	1986-1987
H.398	Lecture Includes handwritten notes.	1986-1987

H.399-H.400	Published version	1987
/...	Two drafts and copy of the <i>European Atlantic Journal</i> (October 1987) in which Marshall's article appeared. 2 folders.	/...
H.401, H.402	'Nuclear energy - some aspects', Lecture Course <i>Pressures on World Stability and Resources</i> , Royal College of Defence Studies, London, 17 February 1987	1986-1987
H.401	Correspondence Includes information <i>re</i> the course.	1986-1987
H.402	Storyboard	1987
H.403	[Address], Labour Party Energy Committee, 17 February 1987, and Conservative Party Energy Committee, 18 February 1987 Correspondence. Includes briefings on structure and timing of Marshall's talk, which was feared to coincide with the publication of the Sizewell Report, the bulk of which had been delivered to the Secretary of State for Energy at the beginning of December 1986.	1986-1987
H.404	[Address], Board Meeting of the South Eastern Electricity Board (SEEBBoard), London, 24 February 1987 Correspondence. Includes extensive aides-mémoire.	1986-1987
H.405, H.406	'Some aspects of electricity and nuclear power', Public Lecture, Brunel University, London, 25 February 1987 According to Marshall's consultative team, this was another variation of the 'Garden Lecture'.	1986-1987
H.405	Correspondence Includes a request from the Radiation Protection Officer at Brunel for Marshall to mention in his lecture that his handling of radioactive materials without using tweezers and tongs 'is not permitted in normal operations with	1986-1987

unknown materials'.

H.406	Storyboard	1987
	Includes reserve material (with handwritten notes) that addresses the Chernobyl accident.	
H.407, H.408	'The importance of nuclear energy', Oundle School, Peterborough, 9 March 1987	1986-1987
	Another variation on the 'Garden Lecture'.	
H.407	Correspondence	1986-1987
H.408	Storyboard	1987
H.409-H.412	'Nuclear power after Chernobyl', Wilson Campbell Lecture, University of Newcastle upon Tyne, 23 March 1987	1977x1987
H.409, H.410	Correspondence	1986-1987
	With briefing material, including a list of possible questions that might be put to Marshall on the occasion.	
	2 folders.	
H.411	Storyboard	1987
H.412	Additional material	1977x1987
	Flyers from previous Wilson Campbell Lectures, etc.	
H.413, H.414	['Nuclear power after Chernobyl'], Royal Institute of International Affairs, Chatham House, London, 31 March 1987	1986-1987

H.413	Correspondence	1986-1987
/...	Includes speaking notes (typescript).	/...
H.414	Additional material	1986x1987
	Copy of 'Present prospects and problems of nuclear power', lecture given by Hans Blix at the Royal Institute of International Affairs, 26 November 1986.	
	Blix was the Director General of the International Atomic Energy Agency.	
H.415	'The energy strategy of the United Kingdom: the Sizewell 'B' PWR', JAIF Conference, April 1987	1987
	Set of photographic reproductions of slides with lecture text, bound into a booklet. With Marshall's annotations. See also C.91-C.96.	
	Marshall delivered his presentation on 14 April.	
H.416	'The energy strategy of the United Kingdom', CHUBU Electric Power Company Inc., Nagoya, Japan, 21 April 1987	1987
	Set of photographic reproductions of slides with lecture text, bound into a booklet. With Marshall's annotations.	
H.417, H.418	[Speech], Visit to Dounreay Nuclear Establishment, Caithness, 14-15 May 1987	1987
	Correspondence. Includes typescript of Marshall's speech, briefing material, press release, guest list, copy of programme, etc.	
	2 folders.	
	The occasion for the visit was the retirement of Cliff Blumfield, the Director of the facility.	
H.419, H.420	[Untitled], United Kingdom Atomic Energy Authority Senior Management Development Course, Cranfield Institute of Technology, Bedfordshire, 17-22 May 1987 Marshall's presentation was on 19 May.	1987

H.419	Correspondence	1987
H.420	Speaking notes Handwritten.	1987
H.421	Speech on the Retirement of Roy Matthews, 27 May 1987 Handwritten speaking notes. Also includes briefing material. Matthews had joined CEGB in 1972 as Chief Nuclear Health and Safety Officer (Director of Health and Safety, 1975). He was the Board's chief policy witness on safety at the Sizewell Inquiry.	1987
H.422-H.425	'Central TV lecture', 26 June 1987 Typescripts. See also H.438.	1987-1988
H.422	Annotated script	1987
H.423	Extended script	1987
H.424	Transcript	1987
H.425	'Scientific commentary on Lord Marshall's lecture on radioactive waste' So inscribed. Marked (in Marshall's hand) 'Commentary on Central TV' and 'Updated to 1/March/88'.	1988
H.426, H.427	[Address], <i>Power Plant UK '87</i> Exhibition, Barnwood, Gloucestershire, 23-27 June 1987 Marshall's briefing material suggests that this was the largest exhibition of its kind ever staged in the UK. The event was organised by the CEGB. It was sponsored by	1987 /...

/...	the CEGB, the Federation of British Electro Technical and Allied Manufacturers' Associations (BEAMA), and the British Overseas Trade Board.	
H.426	Correspondence Includes annotated typescript of speaking notes for the opening ceremony, briefing material (including a Q&A brief), etc.	1987
H.427	PR for the event Printed material.	1987
H.428	'Electricity', The Tuesday Club, United Oxford and Cambridge Club, London, 30 June 1987 Handwritten speaking notes, correspondence. The Tuesday Club was a Dining Club founded in 1916 by J. Maynard Keynes and his friends.	1986-1987
H.429	[Untitled], Visit to Fawley Power Station, Hampshire, 3 July 1987 Storyboard with typescript notes.	1987
H.430-H.433	'Why the UK needs nuclear power', Confederation of British Industry (CBI) Conference on Nuclear Energy, Centre Point, London, 17 July 1987 The conference was originally planned for 22 May.	1987
H.430-H.432	Correspondence Draft lecture (typescript) at H.431. 3 folders.	1987
H.433	Storyboard With handwritten notes and instructions (not in Marshall's hand).	1987
/...		/...

H.434	<p>[Untitled], Visit to Sizewell Power Station, Suffolk, 22 July 1987</p> <p>Storyboard.</p>	1987
H.435	<p>[Speech], Société Française d'Énergie Nucléaire Conference, <i>Nuclear Fuel and Waste Management</i>, Paris, 23-27 August 1987</p> <p>Typescript of Marshall's speech, correspondence, briefing material, etc.</p>	1986-1987
H.436	<p>'Some thoughts on nuclear power', Diplomatic Science Club Luncheon Meeting, London, 23 September 1987</p> <p>Correspondence.</p> <p>The Diplomatic Science Club was the association of all the Science Counsellors and Scientific Attachés of the foreign embassies accredited in London. The club held monthly luncheon meetings which eminent speakers from technological and scientific fields were invited to address.</p>	1987
H.437-H.441	<p>[Address], Board Meeting of the South Western Electricity Board (SWEB), Sowton near Exeter, 1 October 1987</p> <p>Another version of the 'Garden Lecture'.</p>	1987
H.437-H.440	<p>Correspondence</p> <p>Briefing material, including transcript of a Central TV programme about nuclear waste (H.438), etc.</p> <p>4 folders.</p> <p>The television programme in question was hosted by Andy Craig. In addition to Marshall, it featured the American environmental epidemiologist E.P. Radford, Janine Allis-Smith of Cumbrians Opposed to a Radioactive Environment (CORE), Gwyn Jones (a concerned farmer) and various members of the public.</p>	1987
H.441	<p>Presentation</p>	1987

Set of photographic reproductions of slides, bound into a booklet.

H.442, H.443	<p>['Nuclear power: the future for Britain'], Nuclear Electricity Information Group (NEIG) Fringe Meeting, Conservative Party Conference, Blackpool, 8 October 1987</p> <p>Outline of Marshall's speech (typescript). Also includes briefing material <i>re</i> political party attitudes to nuclear power, extracts from speeches by Cecil Parkinson and Michael Spicer, and a summary from the discussion at the NEIG's fringe meeting.</p> <p>2 folders.</p> <p>At the time Parkinson was Secretary of State for Energy. Spicer was Junior Transport Minister.</p>	1987
H.444-H.446	<p>'A period of expansion and change', Prestige Address, Nottinghamshire and North Derbyshire Branch of the Institute of Mining Engineers, Mansfield Mines Rescue Station, Nottinghamshire, 21 October 1987</p> <p>The title Marshall had originally proposed was 'The future of coal in electricity generation'.</p>	1986-1987
H.444	<p>Correspondence</p> <p>Includes a typescript outline of Marshall's lecture (with annotations).</p>	1986-1987
H.445	<p>Lecture</p> <p>Annotated typescript.</p>	20 October 1987
H.446	<p>Storyboard</p> <p>With typescript notes.</p>	1987
H.447-H.451	<p>'Nuclear power in Western Europe', Foratom Briefing for Members of the European Parliament, Palais de l'Europe, Strasbourg, France, 18 November 1987.</p>	1987-1988
H.447, H.448	<p>Correspondence</p> <p>Includes briefing material.</p>	1987

	2 folders.	
H.449	Lecture draft Annotated typescript.	1987
H.450	Transcript of the meeting Typescript.	1987
H.451	Published report Publication prepared by British Nuclear Forum. Includes an edited transcript of the Foratom Briefing. See also H.455.	1988
H.452-H.455	'Nuclear power in Western Europe', British Nuclear Forum, Annual Symposium for Members of Parliament, London, 1 December 1987	1987-1988
H.452	Correspondence Includes briefing documents, list of topics in which MPs expressed a special interest, list of participants, copy of programme, seating plan, etc.	1987
H.453	Lecture Copy of annotated typescript used at the Foratom briefing on 18 November, handwritten speaking notes.	1987
H.454	Presentation by John Baker Entitled 'Privatisation and nuclear power'. Set of colour photocopies of slides, bound into a booklet.	1987
/...	Baker was Corporate Managing Director, CEGB, and Chairman, UK Nirex Ltd.	/...

H.455	Published report Publication prepared by British Nuclear Forum. See also H.451.	1988
H.456-H.458	'Electricity, nuclear power and nuclear waste', Guildhall, London, 3 December 1987	1987
H.456, H.457	Correspondence 2 folders.	1987
H.458	Storyboard	1987
H.459-H.461	'Electricity from nuclear power and from coal', Luton 100 Club, Town Hall, Luton, 7 December 1987 The Luton 100 Club was a non-political discussion society with a local membership drawn from business, the professions and the arts. It was originally formed by Lord Hill of Luton in the late 1940s.	1987
H.459, H.460	Correspondence Includes briefing notes <i>re</i> the Club and John Carlisle MP, who issued the invitation. 2 folders.	1987
H.461	Storyboard	1987
H.462, H.463	'Electricity, nuclear power and nuclear waste', Ministry of Defence Security Services, 20 January 1988	1987-1988
H.462	Correspondence	1986-1987
H.463	Storyboard	1988

H.464	[Untitled], Conservative Backbench Energy Committee, House of Commons, 27 January 1988 Handwritten speaking notes, correspondence. The original plan was for Marshall to address the Conservative Backbench Trade and Industry Committee, and on 8 December 1987.	1987-1988
H.465-H.467	'The role for coal in the electricity industry', Annual Conference, Nottingham Section of the Union of Democratic Mineworkers, Sutton-in-Ashfield, Notts, 2 February 1988	1987-1988
H.465	Correspondence Includes press coverage of Marshall's upcoming visit ('UDN "roasting" for power boss').	1987-1988
H.466	Lecture Annotated typescript. Includes instructions for slides.	1988
H.467	Storyboard	1988
H.468	'Talk at West Burton Power Station', Nottinghamshire, 2 February 1988 Storyboard.	1988
H.469, H.470	['Nuclear energy'], Lecture Course <i>Pressures on World Stability and Resources</i> , Royal College of Defence Studies, London, 17 February 1988	1987-1988
H.469	This was another variation of the 'Garden Lecture'. Correspondence	1987-1988
H.470	Additional material	1987-1988

	Brochures of the Royal College of Defence Studies, 1987 and 1988.	
H.471-H.474	['Electricity's privatisation challenge'], Institute of Directors (IOD) Annual Convention, Royal Albert Hall, London, 23 February 1988 The theme of the convention was 'A new agenda for business'.	1987-1988
H.471, H.472	Correspondence Includes briefing material, brochures of the IOD, etc. 2 folders.	1987-1988
H.473	Lecture Typescript, marked 'final version'. Not annotated. See also D.12.	1988
H.474	Publication Copy of the magazine <i>Director</i> , March 14-March 31 1988, which was dedicated to the convention.	1988
H.475-H.477	'Government privatisation proposals', Statement by the CEGB to staff, 26 February 1988	1987-1988
H.475	Statement, 26 February 1988 Handwritten speaking notes, typescript. This was a response to <i>Privatising Electricity</i> , the recently published White Paper putting forward the Government's proposals for restructuring and privatising the electricity supply industry.	
H.476	Statement, 1 March 1988	
H.477	Additional material Copies of earlier statements (by R.W. Hall and Marshall)	1987-1988

to staff. Also includes copy of a CEGB leaflet on 'The CEGB and Privatisation', subtitled 'Information for CEGB Staff' of November 1987.

R.W. Hall was the Corporate Director of Personnel at CEGB.

H.478	['Address to staff at Wylfa Power Station'], North Wales, 8 March 1988 Typescript draft, with annotations.	1988
H.479-H.484	'Electricity, nuclear power and nuclear waste', Ballard Mathews Lecture, University College of North Wales (UCNW), Bangor, 9 March 1988 This was a joint event between UCNW and the Institution of Electrical Engineers (IEE) Mersey and North Wales Centre. George Ballard Mathews had been the first Professor of Mathematics at UCNW. The lecture series was inaugurated in 1956. Lecturers were expected to address some 'aspect of the impact of science on modern thought'.	1987-1988
H.479-H.482	Correspondence Includes a poster advertising the lecture at H.482. 4 folders.	1987-1988
H.483	Storyboard Includes handwritten lecture notes.	1988
H.484	Additional material Copy of <i>Ymbelydredd a radioactifedd yng ngwynedd</i> ['Radiation and radioactivity in Gwynedd'] (1987). This was a report of the UCNW commissioned by Gwynedd County Council following the Chernobyl incident. It was 'commissioned as an independent piece of work to allay public concern over radiation effects on the people and the environment in this area'. The authors maintained that it was not a complete 'white-wash' as far as the power stations at Wylfa and Transfynydd were concerned, but their report 'does point to the excellent	1987 /...

safety record and the care for the environment established over the years by these two stations' (from the cover letter at H.481).

H.485, H.486	'The Second Estate', Energy Industries Club, 15 March 1988	1987-1988
H.485	Correspondence	1987-1988
H.486	Lecture Annotated typescript, handwritten speaking notes.	1988
H.487	['Talk on Garden Lecture without slides followed by Q&A'], Management Conference, South Eastern Electricity Board (SEEBBoard), Electricity Council Staff College, East Horsley near Leatherhead, Surrey, 24 March 1988 Includes briefing documentation.	1987-1988
H.488	['Privatisation - talking to staff'], Guildford Local Joint Co-ordinating Council (LJCC) Meeting, 25 March 1988 Annotated typescript. Recycled for Electrical Power Engineers' Association (EPEA) conference, 29 March 1988 (see H.489-H.493).	1988
H.489-H.493	[Address], Fourteenth Annual Delegate Conference of the EPEA, York, 28-30 March 1988 Marshall delivered his address on 29 March.	1988
H.489	Correspondence	1988
H.490	Lecture draft Annotated typescript.	1988

H.491	Transcript Typescript.	1988
H.492	Publication Correspondence <i>re</i> adaptation of transcript for publication, typescript of edited version.	1988
H.493	Additional material Conference agenda.	1988
H.494-H.496	'Privatisation of the Electricity Supply Industry', Annual Conference, CEGB Headquarters LJCC, Sudbury House, London, 13 April 1988 Briefing documents, annotated typescripts of Guildford LJCC address (see H.488) and of EPEA address (see H.489-H.493). Also includes a flyer announcing Marshall's presentation. 3 folders.	1988
H.497	['Talk to staff at Oldbury'], 15 April 1988 Typescript marked 'final version'.	1988
H.498, H.499	'Electricity technology in the United Kingdom', Lecture Series, <i>Image of Britain in France</i> , British Embassy, Paris, 20 April 1988 The series set out to present a positive and lively image of UK achievement in science and technology.	1988
H.498	Correspondence	1988
H.499	Storyboard	1988
H.500, H.501	['Need for nuclear plant and the value of having new generation in the South West'], West Dorset Business	1988

and Industry Club Luncheon, House of Commons, London, 11 May 1988

The initiative for this occasion originated with two South West MPs (Sir James Spicer and David Heathcote Amery) who hoped to mobilise a small group of MPs in their region to support the CEGB's work for Hinkley Point 'C' and to counter comments from CEGB's political opponents in the area.

H.500	Correspondence	1988
	Includes briefing documents.	
H.501	Draft lecture	9 May 1988
	Annotated typescript.	
H.502-H.504	[Untitled], CPI Annual Meeting, St Helier, Jersey, 8-10 June 1988	1988
	CPI stands for Commission Permanente Internationale Européenne des Gaz Industriels et du Carbone de Calcium. Marshall delivered his lecture on 10 June.	
H.502, H.503	Correspondence	1988
	Includes an annotated draft of the lecture and briefing material.	
	2 folders.	
H.504	Speaking notes	1988
	Handwritten.	
H.505	[Untitled], Taylor Woodrow Annual Luncheon, Tower Hotel, St Katherine's Dock, London, 17 June 1988	1988
	Correspondence, briefing documents, etc. Includes Marshall's note on the back of the menu.	
H.506-H.510	'The role of coal in the E[lectricity]S[upply][Industry]', Annual Conference, Union of Democratic Mineworkers, Weymouth, Dorset, 15 June 1988	1988

H.506-H.508	Correspondence	1988
	Includes draft lecture and other briefing material. Also includes copy of programme, agenda, etc.	
	3 folders.	
H.509	Lecture	1988
	Copy of annotated typescript.	
H.510	Storyboard	1988
H.511-H.515	'Electricity from the wind', Parliamentary Alternative Energy Group, London, 18 July 1988	1988
	This was a joint presentation of Marshall and P.F. Chester, the Research Director at CEGB.	
H.511-H.514	Correspondence	1988
	Includes briefing material, among it a photocopy of P.F. Chester's presentation (H.512) and a set of possible questions and answers (H.513).	
	4 folders	
H.515	Storyboard	1988
H.516-H.519 /...	British Institute of Management (BIM) Boardroom Discussion Meeting, CEGB, London, 26 July 1988 The meeting was hosted by Marshall. The chosen topic was 'Competition in electricity supply'.	1987-1988 /...
H.516, H.517	Correspondence	1987-1988
	Includes briefing material.	
	2 folders.	

H.518	?Speaking notes Handwritten.	1988
H.519	Correspondence arising	1988
H.520	Press Conference, 4 August 1988 Photocopy of handwritten speaking notes, annotated draft of press release.	1988
H.521	[After dinner talk], Trades Unionists for Safe Nuclear Energy (TUSNE) Dinner, Trades Union Congress, Bournemouth, 8 September 1988 Briefing material, correspondence, etc. Lecture text missing.	1988
H.522, H.523	'World Association of Nuclear Operators', International ENS/ANS Conference on Thermal Reactor Safety, Avignon, France, 2-7 October 1988 Marshall delivered his address at the conference's closing session on 7 October, reporting on the formation of a steering group to produce a charter for a new international organisation to promote worldwide collaboration between nuclear utilities, WANO. Marshall chaired this steering group.	1988
H.522	Correspondence Also includes copy of the second announcement and preliminary programme.	1988
H.523	Lecture Typescript.	1988
H.524	Nuclear Electricity Information Group (NEIG) Fringe Meeting, Conservative Party Conference, Brighton, 12 October 1988 Handwritten speaking notes, lecture outline, briefing material, correspondence.	1988

The chosen topic of the meeting was 'Nuclear power after privatisation'.

H.525, H.526	[Speech], Launch of the CEGB Film <i>Electric Ecology</i> , 18 October 1988 <i>Electric Ecology</i> was about the wildlife around power stations.	1988
H.525	Correspondence Includes a flyer for the film.	1988
H.526	Speech Annotated typescript.	1988
H.527-H.530	[Untitled], Electrical & Engineering Staff Association (EESA) National Conference, Liverpool, 22-23 October 1988 Annotated draft outline of the speech, briefing documents. Includes list of possible questions and answers on industrial relations associated with privatisation, list of possible media questions on EETPU industrial action threat and BC coal negotiations, etc. Also includes copy of the programme. 4 folders. EESA was the white collar section of the EETPU (Electrical, Electronic, Telecommunications and Plumbing Union).	1988
H.531, H.532	'World Association of Nuclear Operators', Nuclear Energy Forum, Washington, US, 30 October-2 November 1988 Marshall presented his paper in the opening plenary session on 30 October.	1988
H.531	Correspondence	1988
H.532	Lecture Typescript, marked 'final'.	1988

H.533	<p>'Progress towards the establishment of a World Association of Nuclear Power Operators', Institute of Nuclear Power Operations (INPO), Atlanta, Georgia, US, 3 November 1988</p> <p>Typescript.</p>	1988
H.534-H.538	<p>[Keynote address], World Electricity Conference, <i>Financial Times</i> Conference, London, 14-15 November 1988</p> <p>Marshall delivered his keynote address on 14 November.</p>	1988
H.534, H.535	<p>Correspondence</p> <p>Includes briefing information, programme, list of participants etc.</p> <p>2 folders.</p>	1988
H.536, H.537	<p>Lecture</p> <p>Typescript draft (annotated), typescript marked 'final'.</p> <p>2 folders.</p>	1988
H.538	<p>Speakers' papers</p> <p>Bound copy of speakers' papers.</p>	1988
H.539-H.542	<p>'Privatisation and nuclear power', British Nuclear Forum (BNF), Annual Symposium for Members of Parliament, London, 23 November 1988</p> <p>See also D.9, H.599-H.603.</p>	1988
H.539	<p>Correspondence</p> <p>Includes briefing material. Also includes information <i>re</i> a BNF Seminar on 'The effects of low level radiation' on 19 October.</p>	1988

H.540	Conference information Copy of programme, list of delegates, luncheon seating plan.	1988
H.541	Lecture Typescript, marked 'final'.	1988
H.542	Published report Publication prepared by BNF.	1988
H.543	'Press visit to Dungeness a dissolution plant', Dungeness Power Station, Kent, 25 November 1988 Annotated typescript, so inscribed. The occasion was the commissioning of the station's Magnox Dissolution Plant, a plant designed to retrieve and dissolve Magnox splitters and radioactive sludges, using a weak acid (in effect soda water, Marshall explained). The advantage of the process was that most of the radioactivity would remain in a small amount of insoluble material that could be filtered out, while the remaining liquid could be discharged into the sea.	1988
H.544, H.545	'Nuclear energy - some aspects', Lecture Course <i>Pressures on World Stability and Resources</i> , Royal College of Defence Studies, London, 18 January 1989	1988-1989
H.544	Correspondence Includes information <i>re</i> the course.	1988-1989
H.545	Storyboard With handwritten notes (not in Marshall's hand).	1989?
H.546, H.547	'Talk to National Power Managers Meeting', 25 January 1989	1988-1989

H.546	Lecture	1989
	Lightly annotated typescript.	
H.547	Additional material	1988-1989
	Handwritten speaking notes from other occasions, including 'Both's Hall' (marked '27.1.89'), 'Heysham' (marked 'best talk at nuclear station yet'). Also includes copy of draft address to staff at Wylfa Power Station, 8 March 1988 (see H.478).	
H.548	[Untitled], Conservative Backbench Energy Committee, House of Commons, 15 February 1989	1989
	Handwritten speaking notes. Also includes a report on the occasion, etc.	
H.549	['Welcoming remarks'], CEGB Cocktail Reception, Conservative Party Central Council Meeting, Scarborough, 17 March 1989	1989
	Handwritten notes, draft typescript. Also includes briefing material, etc.	
H.550, H.551	[Address], Berkeley Cessation Ceremony, Berkeley, Gloucestershire, 31 March 1989	1989
/...	Annotated typescript, retyped version. See also H.599-H.603. 2 folders.	/...
H.552	'VIP dinner', 4 April [1989]	1989
	Handwritten speaking notes, guest list.	
H.553, H.554	'Privatisation and its impact on the future of the nuclear programme in the United Kingdom', OECD Symposium, Tokyo, Japan, 20 April 1989	1989
	Annotated typescript. Also includes annotated typescript of lecture on 'Nuclear power' (also entitled 'The Hokuriku speech', delivered on 21 April) and typescript 'Talk to	

	Japanese utility presidents' (no date).	
	2 folders.	
H.555-H.559	World Association of Nuclear Operators Meeting, Moscow, USSR, 15-17 May 1989	1989
	This was the inaugural meeting of WANO.	
H.555	Marshall's notes from the meeting	1989
	Handwritten.	
H.556	'Summary of members' statements'	1989
	Typescript.	
H.557	'Final speech from Lord Marshall on Tuesday 16 May 1989'	1989
	Typescript.	
H.558, H.559	Additional material	1987x1989
	Typescript entitled 'Report from the WANO Steering Committee' (n.d.), typescript entitled 'Report from the WANO Governing Board' (n.d.).	
/...	2 folders.	/...
H.560-H.563	'Nuclear power and public acceptance', Festkolloquium anlässlich des 65. Geburtstages von Universitätsprofessor Dr. Michael J. Hignatsberger ['Colloquium in celebration of Prof. Michael J. Hignatsberger's 65th birthday'], University of Vienna, Austria, 6 June 1989	1989
H.560	Correspondence	1989
	Includes an annotated draft of Marshall's paper.	
H.561	Storyboard	1989

With handwritten notes.

H.562	Lecture	1989
	Bound copy of the lecture text with photographic reproductions of the lecture slides.	
H.563	Photograph album	1989
	Colour photographs from the occasion, mounted on cardboard, loosely bound.	
H.564	[Address], CEGB, Barnwood, Gloucestershire, 9 June 1989	1989
	Handwritten speaking notes.	
H.565-H.568	'Privatisation and prospects for the Electricity Supply Industry', Annual Conference, Union of Democratic Mineworkers, Weymouth, Dorset, 12-14 June 1989	1988-1989
	Marshall delivered his lecture on 14 June.	
H.565, H.566	Correspondence	1988-1989
/...	Includes typescript draft of the lecture, briefing material (including notes from a brainstorming session <i>re</i> the occasion), etc.	/...
	2 folders.	
H.567	Programme and agenda	1989
H.568	Storyboard	1989
H.569-H.576	[Lunchtime address], British Nuclear Forum Conference, <i>Nuclear Power and the Changing Environment</i> , London, 3-5 July 1989	1988-1989

Marshall's presentation was on 4 July.

H.569	Correspondence	1988-1989
	Includes a communication <i>re</i> filming Marshall's talk for television. Also includes a typescript of a talk on privatisation and nuclear power, which Marshall had delivered on 23 November 1988 (see H.539-H.542).	
H.570-H.573	Conference pack	1989
	Copy of programme, biographies of speakers, etc. 4 folders.	
H.574-H.576	Lecture	1989
	Copies of the transcript in various stages of editing. Includes transcript with Marshall's annotations. 3 folders.	
H.577	'VIP dinner', 10 July 1989	1989
	Handwritten speaking notes.	
H.578	'Remarks at City of London Festival Concert Supper', London, 26 July 1989	1989
	Annotated typescript. Also includes briefing information, guest list, seating plan.	
H.579-H.581	'Magnox', Sizewell 'A', Suffolk, 6 September 1989	1989-1990
	Colour photocopy of storyboard, typescript, etc. 3 folders. Marshall later referred to this presentation as the 'Decommissioning Lecture' (see D.7)	
H.582, H.583	'The World Association of Nuclear Operators',	1988-1989

Symposium, *Quality in Nuclear Power Plant Operations - Learning from Experience*, Toronto, Canada, 11 September 1989

H.582	Correspondence	1988-1989
H.583	Lecture Two typescripts, one annotated, the second marked 'final'.	1989
H.584-H.587	'Energy and society', World Energy Conference, 14th Congress, Montreal, Canada, 18 September 1989	1989
H.584, H.585	Lecture Two illustrated typescripts, one with original photographs (of slides), the other a colour photocopy with annotations, some in Marshall's hand. 2 folders.	1989
H.586	Correspondence arising	1989
H.587	Additional material Copy of 'Addendum to Proof of Evidence submitted by Friends of the Earth (FoE 4, Add 2)', July 1989; ?briefing material <i>re</i> natural radioactivity etc., July 1989.	1989
H.588	'Formation of World Association of Nuclear Operators', IAEA General Conference, Vienna, Austria, 26 September 1989 Typescript draft with Marshall's annotations and typescript marked 'final'.	1989
H.589	'Why be afraid of nuclear power?', Devonshire House Management Club, London, 18 October 1989 Correspondence. Includes briefing notes.	1989

The Devonshire House Management Club was a dining club for UK directors and senior managers associated with industrial relations and personnel management.

H.590-H.594	'The future for electricity', Seminar, <i>Energy: Today's Decisions, Tomorrow's World</i> , Port and City of London Health and Social Services Committee and The Watt Committee on Energy, Guildhall, London, 30 October 1989	1989
H.590	Correspondence Includes background material <i>re</i> Battersea power station and <i>re</i> Magnox reactors.	1989
H.591, H.592	Lecture Two illustrated typescripts, one with original colour photographs (of slides) mounted, the other a colour photocopy with Marshall's annotations. 2 folders.	1989
H.593 /...	Conference pack Copy of programme, guest list, etc. Workings in Marshall's hand on back of guest list.	1989 /...
H.594	Proceedings Copy of proceedings of the seminar.	1989
H.595-H.603	'The future for nuclear power', British Nuclear Energy Society Annual Lecture, London, 30 November 1989 For background material used to prepare this lecture, see C.214-C.234. See also D.5. While this speaking engagement was of long standing, Marshall felt that the content of his lecture was clearly dictated by recent events, notably the Government's decision to abandon the privatisation of nuclear power, its policy decision to abandon the full PWR construction	1989-1990

programme and Marshall's resulting resignation as Chairman of the CEGB.

Marshall used the occasion of this lecture to correct allegations that the CEGB had 'hidden' the true costs of nuclear power, and to explore the implications of the revisions in Government policy for the future of nuclear power and his own place in it.

H.595	Correspondence	1989
H.596, H.597	Lecture Two illustrated typescripts, one with original colour photographs (of slides) mounted, the other a colour photocopy with Marshall's annotations. 2 folders.	1989
H.598	Correspondence arising	1989-1990
H.599-H.603	Additional material	1989, n.d.
/...	Includes annotated background material (H.599), copy of a confidential circular <i>re</i> 'the generation security standard' (H.600), confidential correspondence <i>re</i> 'AGR and PWR indicative prices' (H.601), and copies of two typescripts of talks Marshall had given on 23 November 1988 (see H.539-H.542) and on 31 March 1989 (see H.550, H.551) respectively. 5 folders.	/...
H.604-H.608	'Privatisation and nuclear power in the UK', Edison Electric Institute (EEI) Chief Executive Conference, The Wigwam, Litchfield Park near Phoenix, Arizona, US, 11-12 January 1990 See also C.259, C.260. The Edison Electric Institute (EEI) was the association of US shareholder-owned electric companies.	1990
H.604-H.606	Lecture	1989x1990

Copies of the lecture in three stages: storyboard; the same with Marshall's handwritten lecture notes; illustrated typescript.

3 folders.

H.607	Attendance list	1990
H.608	Marshall's notes Handwritten notes from the meeting.	1990
H.609, H.610	'Radioactive materials and radioactive waste', Lecture Course <i>Pressures on World Stability and Resources</i> , Royal College of Defence Studies, London, 17 January 1990	1990
H.609	Correspondence Includes a much revised (by hand) biographical summary for Marshall.	1989-1990
H.610	Storyboard Also includes correspondence from Marshall's technical advisor, L. Myrddin Davies.	1989-1990
H.611	['The future of nuclear power'], British Institute of Management (BIM) Dining Club, 8 February 1990 Lecture script missing. Correspondence.	1989-1990
H.612-H.617	'Radioactive materials and radioactive waste', Institution of Lighting Engineers 14th Charles Marques Memorial Lecture, Royal Institution of Great Britain, London, 6 March 1990 Originally the title of the lecture was 'Electricity and radioactivity'.	1989-1990
H.612	Correspondence	1989-1990

	<p>Includes material <i>re</i> difficulties arising from Marshall's continued use of radioactive sources in his public lectures, while no longer an employee of the CEGB.</p>	
H.613	<p>Storyboard</p> <p>With handwritten lecture notes.</p>	1989x1990
H.614	<p>Lecture</p> <p>Typescript with colour photographs of the lecture slides, mounted.</p>	1989x1990
H.615	<p>Bound copy</p> <p>Colour photocopy of H.614, in hard-back cover.</p>	1990
H.616	<p>Published version</p> <p>Offprint from <i>Royal Institution Proceedings</i> vol. 63 (1990), 207-219. Includes a set of monochrome photographs, mounted on paper.</p>	1990 /...
/...		
H.617	<p>Additional material</p> <p>Background literature, annotated.</p>	1989-1990
H.618-H.621	<p>Pirelli General Debate, <i>SOUTH 2020</i>, Boldrewood Conference Centre, University of Southampton, 1 April 1990</p> <p>Typescript draft and annotated version of Marshall's contribution, correspondence, copy of BBC's introduction and of BAYS (British Association Youth Section) questionnaire <i>re</i> current concerns of BAYS members, script of speaker representing BAYS, etc.</p> <p>4 folders.</p> <p>This was a televised debate on the South of England in 2020. It formed part of a series of community projects with which the International Pirelli Group celebrated the</p>	1990

75th anniversary, in 1989, of its manufacturing operations in Southampton. The idea behind this particular project of a public debate was that such an event would 'stimulate the interest of young people in science and the challenge of a scientific career in industry'. The Pirelli works in Southampton supplied all types of cable to public utilities at home and overseas, notably to Sizewell. In addition to Marshall, the debate featured Angela Chan, who represented the BAYS members from the Southern Region, and Jeremy Leggett, Director of Science, Greenpeace.

H.622, H.623	[Speech], IAEA General Conference, Vienna, Austria, 18 September 1990 Typescript of Marshall's speech, copy of provisional agenda and other advance information for delegates. 2 folders. Marshall spoke in his capacity as Chairman of WANO.	1990
H.624-H.627 /...	'International collaboration for the safe operation of nuclear power stations', European Nuclear Conference (ENC '90), Lyon, France, 23-28 September 1990 Marshall delivered his presentation on 24 September. He also chaired the afternoon invited session 'Utility operating experience exchange' on 27 September.	1990 /...
H.624	Correspondence Includes an annotated summary of Marshall's press conference statement.	1990
H.625	Lecture Annotated typescript.	1990
H.626	Final programme Copy of <i>Nuclear Europe Worldscan. Journal of ENS</i> No 9/10 September/October 1990, containing final programme and exhibition guide for ENC '90.	1990

H.627	Conference report	1990
	Photocopy of report on the meeting as published in <i>Nuclear News</i> , November 1990.	
	The report featured Marshall prominently.	
H.628-H.630	'The role of Germany in the context of WANO', ABE-Ausschuss Celebrations, Gundremmingen, Germany, 7 December 1990	1990
	The ABE-Ausschuss ['Committee for the exchange of operating experience'] had been created in 1965, in the interest of nuclear safety. The celebration of the 25th anniversary (and the 100th session) of the Committee took place at the nuclear power station Gundremmingen in Bavaria. In the end Marshall's speech was delivered by his assistant E.H. Wallenwein, as Marshall was unable to travel on account of dense fog at Heathrow airport.	
H.628, H.629	Correspondence	1990
/...	Some of it in German. Includes a draft of Marshall's speech, briefing <i>re</i> the Gundremmingen plant, report on the event by Marshall's assistant, etc.	/...
	2 folders.	
H.630	Lecture	1990
	Typescript, for publication.	
H.631-H.633	'Nuclear energy', Lecture Course <i>Economics and Resources</i> , Royal College of Defence Studies, London, 21 January 1991	1990-1991
H.631	Correspondence	1990-1991
	Includes information <i>re</i> Soviet nuclear plants.	
H.632, H.633	Lecture	1991
	Handwritten draft. Also includes photocopy of storyboard (original missing).	

2 folders.

H.634, H.635 'The privatisation of electricity', Reform Club, London, 14 February 1991 1990-1991

Handwritten speaking notes, press clippings, correspondence, background material on the Reform Club.

2 folders.

The invitation came from the Economics & Current Affairs Group of the Club.

H.636-H.640 'Radioactive materials and radioactive waste', Friday Evening Discourse, Royal Institution of Great Britain, London, 15 February 1991 1990-1991

H.636, H.637 Correspondence 1990-1991

/...

Includes synopsis of Marshall's discourse and a biographical note, dinner seating plan, list of Marshall's guests.

/...

2 folders.

H.638 Lecture 1991

Annotated draft (typescript), with reproductions of slides.

H.639, H.640 Publication 1991

Annotated typescript and typescript of final version (with photocopies of illustrations).

2 folders.

H.641 'Insurance nuclear pool Chairman's convention, WANO', 17 April 1991 1991

From a folder so inscribed. Handwritten draft.

H.642-H.646	WANO Biennial General Meeting, Atlanta, US, 21-23 April 1991 Typescripts.	1991
H.642	'Press briefing, 19 April 1991' Annotated. 3pp.	1991
H.643	'William States Lee, Speech by Lord Marshall, 22 April 1991' 11pp. Tribute to the retiring President.	1991
H.644 /...	'Speech by Lord Marshall at Executive Session, Tuesday 23 April 1991' 7pp.	1991 /...
H.645	'WANO Biennial General Meeting April 1991, Atlanta, Speech by Lord Marshall' 8pp.	1991
H.646	'Nomination speech for Mr Shoh Nasu' 5pp. Nomination speech for Nasu as next President of WANO. Nasu was the President of the Tokyo Electric Power Company (TEPCO).	April 1991
H.647	'WANO in the future', Westinghouse Operating Plant Symposium, Turnberry Isle Yacht and Country Club, Aventura, Florida, US, 7-10 May 1991 Handwritten speaking notes (written on resort stationary), typescript summary. Also includes correspondence, copy of programme, list of utilities/associates attendees. See also J.89.	1991

H.648	[Talk], Civic Luncheon, Lime Street Ward Club, Guildhall, London, 14 May 1991 Correspondence.	1991
H.649-H.651	[Untitled], Senior Engineering Group Annual Conference, Hexham near Newcastle-upon-Tyne, 20 September 1991	1990x1991
H.649	Lecture notes Handwritten. Also includes correspondence.	1991
H.650, H.651	Additional material Promotional material (Report and accounts 1990, Group profile etc.) from the Senior Engineering Group.	1990x1991
/...	2 folders.	/...
H.652-H.655	'The World Association of Nuclear Operators (WANO)', Association of Edison Illuminating Companies (AEIC) Annual Meeting, The Greenbrier, West Virginia, US, 17-19 October 1991	1991
H.652	Correspondence Includes information <i>re</i> the Association of Edison Illuminating Companies.	1991
H.653	Lecture Photocopy of storyboard.	1991
H.654	Conference programme Copy of the programme. Also includes 'Roster of expected attendances'.	1991

H.655	Marshall's itinerary	1991
	Typescript of the Marshalls' itinerary, 13-22 October 1991.	
H.656-H.658	'Nuclear power and the environment', Lecture inaugurating the Linacre Lecture Series <i>Energy and the Environment</i> , University of Oxford, 24 October 1991	1990-1992
	For a sound recording, see K.3-K.5.	
H.656	Correspondence	1990-1992
	Includes information <i>re</i> the Linacre Lectures. Covers arrangements <i>re</i> publication of Marshall's contribution.	
H.657	Storyboard	1991
/...	Set of photocopies.	/...
H.658	Lecture text	1991x1992
	Typescript marked 'final', 15pp. Also includes typescript appendix (6pp) and handwritten calculations <i>re</i> 'Risk of death at age y due to dose D_t at age t ...', 2pp.	
H.659	Cambridge Forum, 26 November 1991	1991
	Correspondence.	
	The Cambridge Forum described itself as 'the University's leading discussion society'. It adopted a 'Question Time' format for discussion of current affairs. Marshall's fellow panel members on the occasion included Michael Mates MP, Mark Fisher MP, and Rob Lowe of the <i>Observer</i> .	
H.660-H.662	'Nuclear power', Sixth International Energy Conference, <i>Energy Policy: Market-led or Government-driven?</i> , Chatham House, London, 2-3 December 1991	1991
	The conference was convened by the Royal Institute of International Affairs, the British Institute of Energy	

	Economics and the International Association for Energy Economics. Marshall delivered his presentation on 2 December.	
H.660	Correspondence Includes a typescript summary of Marshall's talk.	1991
H.661	Lecture Handwritten draft, 11pp + 1p.	1991
H.662	Programme Also includes list of delegates, etc.	1991
H.663-H.667	'Environmental and economic benefits of nuclear power', Conference, <i>Pollution in the Metropolitan and Urban Environment</i> (POLMET '91), Hong Kong, 9-13 December 1991 Marshall delivered his lecture on 10 December.	1990-1991
H.663, H.664	Correspondence 2 folders.	1990-1991
H.665	Storyboard Set of colour photocopies. Also includes instructions for slides.	1991
H.666, H.667	Lecture text Typescript of lecture and annotated version. 2 folders.	1991
H.668, H.669	'Nuclear energy', Lecture Course <i>Economics and Resources</i> , Royal College of Defence Studies, London, 28 January 1992	1991-1992

For the original slides, see K.1.

H.668	Correspondence	1991-1992
H.669	Storyboard Photocopies. Also includes instructions for slides.	1991x1992
H.670-H.673	'Chernobyl never again', Conference, <i>Kernenergie - Perspektiven für Deutschland</i> ['Nuclear energy - perspectives for Germany'], Deutsches Atomforum ['German Atomic Forum'], Bonn, Germany, 29 January 1992	1991-1992
H.670	Correspondence Includes copy of the programme.	1991-1992
H.671	Storyboard Photocopy of slides and of handwritten speaking notes.	1991x1992
H.672	Lecture Typescript, 17pp.	1992
H.673	Publication Copy of conference proceedings, <i>Kernenergie - Perspektiven für Deutschland</i> , ed. Deutsches Atomforum e.V., 1992.	1992
H.674-H.677	'Nuclear power in Eastern Europe and the ex-Soviet Union', 59th Annual Conference, Southeastern Electric Exchange (SEE), Boca Raton, Florida, US, 5-8 April 1992	1991-1992
H.674-H.676	Correspondence	1991-1992

Includes a copy of the programme.

3 folders.

H.677	Publication	1992
	<p>Faxed copy of Marshall's article 'Understanding CIS', <i>Nuclear Engineering International</i> (September 1992), two typescript summaries entitled 'WANO and nuclear power in Eastern Europe and the CIS', one of them subtitled 'Various individual lectures given between 30 March 1992 and 24 June 1992'.</p> <p>CIS (Commonwealth of Independent States) was a regional organization comprising the former Soviet Republics.</p>	
H.678	'Acid rain, ozone holes and nuclear power', Symposium, <i>Physics and the Environment</i> , King's College, London, 22 April 1992	1992
	<p>Handwritten speaking notes, correspondence, information <i>re</i> other speakers, instructions for slides. Also includes original poster of the symposium (in colour).</p>	
H.679-H.684	'Nuclear power in the CIS - a progress report', BNF Seminar, <i>Nuclear Power in the CIS and Eastern Europe</i> , London, 7 May 1992	1992
	<p>'Nuclear power and the CIS - a progress report' was the title of Marshall's talk as it appeared in the provisional programme. Both the typescripts and correspondence found here suggest that Marshall actually contributed several papers.</p>	
H.679	Correspondence	1992
H.680	Storyboard	1992
	Photocopy.	
H.681, H.682	Lecture	1992
	Two typescripts, both subtitled 'Lecture at the British	

Nuclear Forum Seminar, 7 May 1992', one under the title 'WANO and nuclear power in Eastern Europe and the CIS', the other named 'Kozloduy: a special case'.

2 folders.

H.683	Summary	1992
	Three summaries, for 'Nuclear power in the CIS - a progress report', 'WANO and nuclear power in Eastern Europe and the CIS', and 'Kozloduy: a special case'.	
H.684	Additional material	1992?
H.685	Handwritten draft of a lecture, marked 'BNF Seminar 7/5/92' by Marshall's secretary. [?'WANO and nuclear power in Eastern Europe and the CIS?'], Annual Meeting, Nuclear Electric Insurance Ltd, Bermuda, 10 June 1992	1992
	Photocopy of storyboard.	
H.686-H.688	'WANO's aid and assistance programme', BNF International Conference, <i>Putting Britain's Nuclear Prospects in a Global Context</i> , London, 23-23 June 1992	1992
H.686	Correspondence	1992
	Includes annotated copy of the advance programme, list of delegates etc.	
H.687	Storyboard	1992
	Set of colour photocopies with handwritten notes.	
H.688	Lecture	1992
	Typescript, 2pp. Subtitled 'A repeat of evidence to the US Senate on 16 June'.	
H.689-H.703	Seventeenth Annual Symposium, Uranium Institute, London, 9-11 September 1992	1992-1993

	Marshall chaired Session VII, 'An international imperative for the nuclear industry - safety in CIS nuclear power plants', featuring the Russians E. Pozdyshev and A. Abagyan, and V. Fuks of the Ukraine.	
H.689-H.692	Correspondence	1992
	Chiefly <i>re</i> the visit of the speakers from Russia and Ukraine. See also J.144, J.148, J.150.	
	4 folders.	
H.693	Programme	1992
/...	Includes copy of final announcement and list of participants.	/...
H.694-H.703	Lectures from the session	1992-1993
H.694, H.695	Armen Abagyan	1992-1993
	Typescript (dated September 1992) with Marshall's comments, typescript of ?final version for publication, with Marshall's introduction.	
	2 folders.	
H.696-H.698	Vladimir Fuks	1992-1993
	Typescript (dated October 1992), typescript of ?final version for publication, with Marshall's introduction. Also includes handwritten draft of the paper (written by Marshall?).	
	3 folders.	
H.699-H.702	Erik Pozdyshev	1992-1993
	Handwritten draft (in Russian with English translation) with Marshall's annotations, typescript (with Marshall's introduction), typescript of final versions of both for publication. Also includes copy of a report on 'Status and safety problems of Russian NPPs operation', 1992.	

4 folders.

H.703	Correspondence <i>re</i> publication	1992-1993
H.704	<p>'The progress of the World Association of Nuclear Operators', 15th Congress, World Energy Council, Madrid, 20-25 September 1992</p> <p>Correspondence, typescript summary of Marshall's presentation, Marshall's itinerary 19-29 September, etc.</p>	1992
H.705	<p>'Nuclear energy', Lecture Course <i>Economics and Resources</i>, Royal College of Defence Studies, London, 12 February 1993</p> <p>Correspondence. Also includes course information. See also J.186.</p>	1992-1993
H.706, H.707	<p>'Nuclear safety - impact on premiums', Nuclear Insurance Conference, US Council for Energy Awareness (USCEA), San Diego, California, US, 28 February-3 March 1993</p> <p>Marshall delivered his presentation on 1 March.</p>	1992-1993
H.706	<p>Correspondence</p> <p>Includes a typescript draft of Marshall's paper.</p>	1992-1993
H.707	<p>Lecture</p> <p>Typescript, annotated.</p>	1993
H.708, H.709	<p>'Nuclear power in Eastern Europe', Fourth Annual International High Level Radioactive Waste Management Conference, Las Vegas, Nevada, US, 26 April 1993</p>	1992-1993
H.708	<p>Correspondence</p> <p>Includes copy of 1992 conference programme.</p>	1992-1993

H.709	Lecture	1993
	Instructions for slides, storyboard with handwritten notes (title slide missing), photocopy of complete set.	
H.710	'Nuclear energy', Lecture Course <i>Economics and Resources</i> , Royal College of Defence Studies, London, 16 February 1994	1993-1994
	Correspondence. Also includes course information.	
H.711	'The role for nuclear power in the 21st century', Royal Institute of International Affairs, London, 26 April 1994	1994
	Annotated briefing notes. Includes typescript itinerary for the week commencing 25 April, with Marshall's notes on back.	
	Marshall chaired this talk, which was given by W. Hohefelder, a German reactor safety official.	
H.712	'The way of the atom (a view from the top)', British-Hungarian Fellowship, Hungarian Reformed Church, London, 5 May 1994	1994
	Handwritten draft, correspondence, etc.	
	According to the flyer, Marshall discussed the nuclear industry in Eastern Europe.	
H.713-H.715	'Nuclear power: energy of today and tomorrow', Hokuriku Atomic Industrial Conference, Japan, 25 May 1994	1994
H.713, H.714	Slides	1994
	Correspondence etc. <i>re</i> creation of lecture slides.	
	2 folders.	
H.715	Lecture text	1994
	Photocopy of annotated typescript.	

H.716, H.717	[Untitled], Energy Group Meeting, British Consultants Bureau, London, 8 June 1994	1993-1994
H.716	Correspondence	1993-1994
H.717	Lecture Handwritten draft, 2pp.	1994
H.718-H.720	['Users of VVER and RBMK reactors'], Symposium, <i>Hoe kunnen we kerncentrales in Oost Europe en Rusland helpen verbeteren?</i> ['How can we help upgrade the NPPs in Eastern Europe and Russia?'], Netherlands Nuclear Society, The Hague, Netherlands, 11 October 1994 The VVER (transliterated from Russian, 'Vodo-Vodyanoi Energetichesky Reactor', or 'Water-Water Energy Reactor') was a series of pressurised water reactors of a safer design than the RBMK type. The RBMK (transliterated from Russian, 'Reaktor Bolshoy Moshchnosti Kanalnyi', or 'High Power Channel Type Reactor') was the reactor type involved in the Chernobyl accident.	1994
H.718	Correspondence Some of it in Dutch. Includes 'pre-information concerning [Marshall's] talk for a press release'. See also J.267, J.268.	1994
H.719	Lecture Handwritten instructions for slides, storyboard for talk on 'User groups for Soviet designed reactors'.	1994
H.720	'People WM met in The Hague' Marshall's drawing of the 'Seating plan for dinner' following the symposium, with business cards attached to the sheet.	1994

H.721-H.724	<p>'Energy in the UK, the West and the ex-Soviet Union', Kelvin Lecture, Royal Philosophical Society of Glasgow, Glasgow, 19 October 1994</p> <p>For the original slides, see K.2.</p>	1994
H.721	Correspondence	1994
H.722, H.723	Lecture	1994
/...	Annotated storyboard (H.722), annotated typescript of lecture text (H.723). 2 folders.	/...
H.724	Additional material	?1994
	Samples from earlier Kelvin Lectures, including copy of typescript of the 1990 Lecture by the historian Crosbie Smith.	
H.725	'WANO users group', 'WANO BGM, Paris, April 1995'	1995
	From a folder so inscribed. Set of transparencies.	
H.726	['Future aspects of energy and resources'], Seminar, <i>Future Human Life and Energy</i> , Energy Research Center, Wakasa Bay, Japan, 29 May 1995	1994x1995
	Typescript outline. Also includes correspondence.	
	Marshall cancelled his lecture 'because of illness' (from a folder so inscribed).	
H.727	Additional material	1986x1995
	Set of transparencies, from a box inscribed (in Marshall's hand) 'Pozdyshev's "Profiles" of Nuclear Sites'.	

SECTION J CORRESPONDENCE, J.1-J.369 1970-1996

J.1-J.340	'PADS'	
J.341-J.343	LOGBOOKS	
J.344-J.360	CORRESPONDENCE AUGUST 1989-MAY 1990	
J.361-J.369	MISCELLANEOUS	

J.1-J.340 'PADS' 1987-1996

Series of thirteen box files so labelled. In chronological order. Chiefly outgoing correspondence. Includes itineraries for Marshall and his wife, who invariably accompanied him on his trips.

The term 'PADS' was widely used within the United Kingdom Atomic Energy Authority (UKAEA) to describe file copies of notes and correspondence. Originally such retention copies were created by having a 'pad' containing a top copy and several (sometimes coloured) carbon copies underneath. In the case of the Marshall papers, the material labelled 'PADS' is photocopies.

J.1-J.19 'Personal letters taken from CEGB pre-1990' 1987-1989

So inscribed. Chiefly outgoing correspondence.

J.1, J.2	1987	1987
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Includes correspondence *re* portraits of Lord and Lady Marshall.

2 folders.

J.3-J.9	1988	1988
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/...	Chiefly <i>re</i> banking and social engagements. Divided up as follows: January-March (J.3), April-June (J.4), July-August (J.5), September (J.6), October (J.7), November (J.8) and December (J.9).	/...
	7 folders.	
J.10-J.19	1989 Chiefly <i>re</i> banking and social engagements. From December, also <i>re</i> the Government's revision of its plans for nuclear power, leading Marshall to resign as Chairman of the CEGB. Divided up as follows: January-February (J.10), March-April (J.11), May (J.12), June (J.13), July (J.14), August-October (J.15), November (J.16) and December (J.17, J.18). J.19 is restricted.	1989
	J.17 includes original calculations 'for the fresh clarification of the risk factor'. 10 folders.	
J.20-J.49	'January 1990-July 1990' So inscribed. Covers Marshall's resignation from the CEGB on 19 December 1989, his plans for WANO, the reorganisation of nuclear business in Eastern Europe following the Chernobyl accident, the nuclear scene world-wide, testimony presented before the House of Commons Select Committee on Energy, etc. Divided up as follows: January (J.20-J.25), February (J.26-J.30), March (J.31-J.33), April (J.34, J.35), May (J.36-J.40), June (J.41-J.45) and July (J.46-J.49).	1990
	30 folders. WANO (the World Association of Nuclear Operators) had been created in the aftermath of the Chernobyl nuclear accident of 1986, to improve safety at nuclear power plants world-wide. The inaugural meeting took place in Moscow in May 1989 and Marshall was named Chairman of the Governing Board. Following his resignation from the CEGB Marshall continued as Chairman of WANO, now with a salary. In April 1993 he retired after two terms in office.	

Marshall testified before the House of Commons Select Committee on Energy on 11 February. The Committee's findings were published on 27 June under the title 'The Cost of Nuclear Power'. See also Section D. /...

J.50-J.81

'August 1990-February 1991'

1990-1991

So inscribed. Covers WANO's involvement in nuclear safety in Eastern Europe and the Soviet Union ('VVER Special Project'), other nuclear initiatives of WANO, the mining company Minworth Group plc, Marshall's visiting professorship at Imperial College, London, a film project to explore the history of nuclear power in the UK, etc.

Divided up as follows: August (J.50-J.55), September (J.56-J.60), October (J.61-J.63), November (J.64-J.67), December (J.68-J.71), January (J.72-J.76) and February (J.77-J.81).

32 folders.

The VVER (transliterated from Russian, 'Vodo-Vodyanoi Energetichesky Reactor', or 'Water-Water Energy Reactor') was a series of pressurised water reactors of a safer design than the type involved in the Chernobyl accident. The WANO special project explored the upgrading specifically of VVER 230 reactors in Bulgaria, Czechoslovakia and the Soviet Union. The design dated from the late 1960s.

The Minworth Group was a small private company owned by institutional shareholders whose primary purpose was to mine and process calcium fluoride for use in chemical and metallurgical industries. Marshall briefly acted as company Chairman before resigning in January 1991.

J.82-J.109

'March 1991-August 1991'

1991

So inscribed. Continues WANO's involvement in the VVER Special Project, with particular attention on the nuclear power plant near Kozloduy in Bulgaria. Also covers Marshall's idea of WANO peer reviews, management of the WANO Moscow Centre, insurance for nuclear power plants, etc.

Divided up as follows: March (J.82-J.87), April (J.88-

J.91), May (J.92-J.96), June (J.97-J.101), July (J.102-J.105) and August (J.106-J.108). J.109 is restricted. /...
/... J.96 and J.99 include typescript reports on visits to Bulgaria, 20-25 May, and Czechoslovakia, 2-8 June. J.106 includes an account of the situation of the Skoda works, Czechoslovakia.

28 folders.

In June 1991 an IAEA safety review of the Kozloduy nuclear power plant resulted in the recommendation for four of the overall six units of the plant to be shut down until they had been substantially upgraded.

Marshall acted as a Technical Advisor and Consultant for a new syndicate specialising in nuclear insurance (syndicate 1176) of Lloyd's of London.

J.110-J.135

'September 1991-February 1992'

1991-1992

So inscribed. Continues WANO's involvement in the VVER Special Project (in particular the Kozloduy plant), the setting up of the WANO peer review process, nuclear insurance, etc. Also covers WANO's public relations and changes in Soviet administration of nuclear energy following the collapse of the Soviet Union towards the end of 1991.

Divided up as follows: September (J.110-J.113), October (J.114-J.116), November (J.117, J.118), December (J.119-J.121), January (J.122-J.127) and February (J.128-J.132). J.133-J.135 are restricted.

J.131 includes a 'Progress report on nuclear power in the ex-Soviet Union', with a report on a 'Visit to Bulgaria, 3-8 February 1992'.

26 folders.

J.136-J.164

'March 1992-September 1992'

1992

So inscribed. Continues issues raised by changes in Soviet administration of nuclear energy following the collapse of the Soviet Union, the Kozloduy plant, nuclear insurance, etc. Also covers the 'Rowland Report', the foundation of the Institute of Nuclear Safety Systems (INSS), evidence given to the Senate Committee on Energy and Natural Resources in Washington, German vs Japanese styles of nuclear inspection and design of

/... simulator centres, etc. /...
Divided up as follows: March (J.136-J.139), April (J.140, J.141), May (J.142-J.145), June (J.146-J.152), July (J.153-J.159) and September (J.160-J.163). No letters appear to have been written during the month of August. J.164 is restricted.

J.142 includes reports of visits of INSS to the American Electric Power Research Institute (EPRI) and to the Yankee Atomic Electric Company. J.145 includes Marshall's notes on an INSS round-table discussion, 22 May 1992.

29 folders.

The so-called 'Rowland Report' was the outcome of an investigation into the future capital structure of Lloyd's through a task force under the Chairmanship of David Rowland. The Rowland Report was published in January 1992 under the title *Lloyd's: A Route Forward*. Marshall questioned aspects of the report, notably its ideas for segregating business and regulatory activity.

The INSS was a research institute set up by the Kansai Electric Power Company in the new Kansai Science City near Nara, Japan. It was part think-tank and part laboratory, dedicated both to making nuclear power acceptable to the Japanese public and to research into nuclear technology itself. Marshall was co-opted as Western observer and participant ('Overseas Adviser') in the institute's activities, which he paraphrased as follows: 'everything which can perfect or improve the Kansai nuclear objectives' (J.146).

On 16 June the Senate Committee on Energy and Natural Resources concluded its hearings *re* the safety of Soviet-designed nuclear power plants in Eastern Europe and *re* technical and financial assistance by Western nations to help improve the safety of these reactors. Marshall was among the witnesses called. He subsequently questioned the accuracy of testimony provided by I. Selin, Chairman of the Nuclear Regulatory Commission (see J.151).

J.165-J.198

'October 1992-May 1993'

1992-1993

So inscribed. Continues preoccupation with the nuclear safety problems in the ex-Soviet Union and Eastern Europe, Marshall's various consultancy work, etc. Also covers Marshall's future role as a WANO Special Ambassador (following his retirement as Chairman in April 1993), the project of setting up a Users Group for /...

/...

Soviet Built Reactors, arrangements for the daughters of international colleagues to work and study in the UK, etc.

Divided up as follows: October (J.165-J.169), November (J.170-J.172), December (J.173, J.174), January (J.175-J.180), February (J.181-J.185), March (J.186-J.189), April (J.190-J.193) and May (J.194-J.197). J.198 is restricted.

J.188 includes a draft outlining the proposed Users Group for Soviet Built Reactors. J.195 includes a circular (addressed to all members' agents of the Lloyd's nuclear insurance syndicate) *re* thermal fatigue cracks in French Pressurised Water Reactors (PWRs).

34 folders.

The idea behind the Users Group for Soviet-designed and constructed nuclear reactors was to enable Russia, the Ukraine, Bulgaria, Lithuania and Slovakia to collaborate on nuclear safety in a non-political way.

J.199-J.220

'June 1993-October 1993'

1993

So inscribed. Continues arrangements for the foundation of the Users Group for Soviet Built Reactors and its relationship with WANO, Marshall's various consultancy work, etc. Also covers the genesis of a cooperation agreement between the Russian Federation and the Japanese government *re* the development of a VVER-1000 reactor simulator, corporate memberships of Lloyd's of London, etc.

Divided up as follows: June (J.199-J.203), July (J.204-J.206), August (J.207-J.210), September (J.211-J.215) and October (J.216-J.219). J.220 is restricted.

J.202, J.203, J.205 include Marshall's notes on a visit (with Michael Dawson of Lloyd's of London) to the US, 20-27 June 1993. J.207 includes copy of agenda of the second meeting of the Users Group and Marshall's discussion paper on the occasion.

22 folders.

In this period Marshall much exerted himself to find shareholders to form a company which would become a corporate name at Lloyd's of London, specialising exclusively in nuclear insurance.

J.221-J.245

'November 1993-April 1994'

1993-1994

So inscribed. Continues work of the Users Group for Soviet Built Reactors, negotiations with potential shareholders for corporate membership in the Lloyd's nuclear insurance syndicate, Marshall's exertions on behalf of the INSS, etc. Also covers the continued delay of Western government aid for nuclear safety in the former Soviet Union.

Divided up as follows: November (J.221-J.225), December (J.226-J.230), January (J.231, J.232), February (J.233-J.236), March (J.237-J.240) and April (J.241-J.244). J.245 is restricted.

J.229 includes Marshall's notes on a visit to Japan, 27 November-4 December 1993. J.231 includes an account by Marshall of the role played by his wife in the success of WANO. J.241 includes an extensive report on a meeting with the head of the secretariat of the Commission of the European Communities. J.244 includes 'A possible policy position which the Ukrainian authorities might adopt concerning nuclear power'.

25 folders.

In this period, the focus of the Users Group was on the organisation of a conference in March 1994 that would involve many Western industrialists. One of the outcomes of the meeting was an appeal to the West for technological cooperation, or as Marshall termed it, 'technology transfer to help ourselves'.

The Lloyd's nuclear insurance syndicate abandoned its corporate membership scheme in December 1993.

At the end of 1993, Russia and the Ukraine had still not received any monetary help with their nuclear safety problems (see J.230).

J.246-J.270

'May 1994-September 1994'

1994

So inscribed. Continues work of the Users Group, specifically negotiations for technology transfer and potential funding sources for nuclear safety in the former Soviet Union, etc. Also covers collaboration between the OECD Nuclear Energy Agency and former Soviet Republics *re* nuclear liability legislation, etc.

/...

Divided up as follows: May (J.246-J.248), June (J.249-J.256), July (J.257-J.262), August (J.263-J.266) and September (J.267-J.269). J.270 is restricted.

/...

J.254 includes a detailed description of the Lloyd's nuclear insurance syndicate and how to join it. J.261 includes a report on a meeting with Sir Leon Brittan, European Community Commissioner for External Relations and Overseas Aid. J.262 and J.264 include lists of actions agreed at a meeting of the Users Group in July 1994.

25 folders.

J.271-J.300

'October 1994-April 1995'

1994-1995

So inscribed. Continues work of the Users Group and particularly bureaucratic difficulties in securing financial aid from the West for nuclear safety in the former Soviet Union. Also covers changes to Marshall's schedule as a result of medical issues and subsequent diagnosis and treatment for cancer. Further covers arrangements for a television programme about his life, US/Japanese negotiations over American veto powers on Japanese activities using nuclear material, the Kobe earthquake on 17 January 1995 and seismic risks to nuclear safety, the future of the American aid programme in the ex-Soviet Union and Eastern Europe under the new Republican Congress, etc.

Divided up as follows: October (J.271-J.274), November (J.275-J.279), December (J.280-J.282), January (J.283-J.286), February (J.287-J.291), March (J.292-J.296) and April (J.297-J.299). J.300 is restricted.

J.276 includes an account to the WANO Governing Board of the Users Group projected activities in the year to come. J.284 includes extensive comments on a publication on VVER technology by S. Thomas of the Science Policy Research Unit, University of Sussex. J.285 includes an account of Marshall's own history, the history of the Users Group and the joint interests of its members, for the attention of the Office of Nuclear Energy, US Department of Energy, Washington. J.293 includes a 6pp 'Action plan for enhancing the safety of Soviet-designed [nuclear power plants]'. J.294 includes recollections *re* 'Combined Heat and Power' schemes and Marshall's involvement in them.

30 folders.

/...

The television programme about Marshall's life was presented by the news veteran Richard Lindley. Entitled *Playing for Power*, it was broadcast in the UK on 8 April 1995. There also was a Russian version.

/...

Following the 1994 US midterm elections the Republicans gained control of both the House and the Senate in January 1995. This was the first time in forty years that the Republicans held the majority in the House.

J.301-J.323

'May 1995-August 1995'

1995

So inscribed. Continues work of the Users Group, American aid for nuclear safety in the ex-Soviet Union, changes to Marshall's schedule as a result of his medical condition, his activities in the nuclear insurance syndicate and on behalf of the INSS.

Divided up as follows: May (J.301-J.306), June (J.307-J.312), July (J.313-J.316), August (J.317-J.319). J.320-J.323 is restricted.

J.312 includes a 5pp progress note on the work of the Users Group.

23 folders.

J.324-J.340

'September 1995-June 1996'

1995-1996

So inscribed. Covers Marshall's continued activities (WANO, nuclear insurance syndicate) and eventual withdrawal from them as his illness advanced.

Divided up as follows: September (J.324-J.327), October (J.328, J.329), November (J.330-J.332), December (J.333-J.336), January (J.337), February (J.338), March (J.339) and May-June (J.340).

17 folders, restricted. Not indexed.

Between September and November 1995, Marshall spent several weeks in hospital. He withdrew from his responsibility as Chairman of the Users Group in November but continued advising it into January 1996. He also cut back on his consultancy work for the nuclear insurance syndicate and the INSS, but continued to advise the latter on ongoing matters (such as a device referred to as the Kansai Marshall probe). This too continued into January 1996. Marshall died on 20 February. He was cremated in Oxford on 1 March, following a funeral service at St Andrew's Church in South Stoke, Oxfordshire.

/...

/...

J.341-J.343

LOGBOOKS

1989-1996

Series of hardback notebooks logging outgoing correspondence, not paginated. Starting 20 December 1989 (the day after Marshall's resignation from the office of Chairman of the CEGB). The final entry is dated 30 January 1996, three weeks prior to his death on 20 February.

3 items.

J.341

'20 December 1989-30 July 1992'

Inscribed 'Post'.

J.342

'31 July 1992-4 August 1995'

J.343

'8 August 1995-30 January 1996'

Unused except for first 24 pages.

J.344-J.360

CORRESPONDENCE AUGUST 1989-MAY 1990

1989-1990

Incoming and outgoing correspondence leading up to and in response to Marshall's resignation as Chairman of the CEGB.

Divided up as follows: August-November (J.344-J.346), December (J.347, J.348), January (J.349-J.351), February (J.352-J.355) and March-May (J.356-J.360).

17 folders.

/...

Marshall was Chairman of the CEGB 1982-1989. He resigned on 19 December 1989, following the Government's decision not to privatise nuclear power stations.

/...

J.361-J.369	MISCELLANEOUS	1970-1987, 1994-1995
	Found loose.	
J.361-J.364	1970-1987 Includes a typescript by M.F. Perutz. 4 folders.	1970-1987
J.365-J.367	1994 Incoming and outgoing correspondence, including <i>re</i> an attempt by Marshall to find 'a more business-oriented job here at home'. 3 folders.	1994
J.368, J.369	1995 Incoming and outgoing correspondence. 2 folders.	1995

SECTION K	NON-TEXTUAL MEDIA, K.1-K.7	1984-2008
	K.1, K.2	SLIDES
	K.3-K.5	SOUND RECORDINGS
	K.6, K.7	FILM
K.1, K.2	SLIDES	1991x1992, 1994
K.1	'Nuclear energy', Lecture Course <i>Economics and Resources</i> , Royal College of Defence Studies, London, 28 January 1992 Case containing twelve colour slides (see also H.668, H.669).	1991x1992
K.2	'Energy in the UK, the West and the ex-Soviet Union', Kelvin Lecture, Royal Philosophical Society of Glasgow, Glasgow, 19 October 1994 Case containing 24 colour slides (see also H.721-H.724).	1994
K.3-K.5	SOUND RECORDINGS	1991, 2008
	Recording of 'Nuclear power and the environment', Lecture inaugurating the Linacre Lecture Series <i>Energy and the Environment</i> , University of Oxford, 24 October 1991. See also H.656-H.658. One cassette tape (K.3) and two CDs (K.4, K.5). 3 items.	
K.6, K.7	FILM	1987-1988

- | | | |
|-----|--|------|
| K.6 | <p>16 mm film reels.
'Operation smash hit'</p> <p>So inscribed. Further inscribed '2 minute clip with interview'.</p> <p>Footage of a nuclear flask crash test, carried out on the Old Dalby Test Track, Leicestershire, on 17 July 1984. Features Marshall.</p> <p>The purpose of the staged collision was a public demonstration to dispel fears that a nuclear waste flask would not survive the impact of a rail crash.</p> | 1987 |
| K.7 | <p>'Lord Marshall's Eton Garden Lecture'</p> <p>So inscribed; c. 37 minutes. Recording of 'Electricity, nuclear power and nuclear waste', given at Eton College in April 1986 (H.320-H.323). The lecture originated in Marshall's Tizard Memorial Lecture, Westminster School, 6 February 1986 (see H.292-H.306).</p> <p>The lecture was variously known as the 'Garden Lecture' and the 'NIMBY Lecture'. The names respectively referred to Marshall's argument about naturally occurring radioactivity (i.e. in one's garden) and to what he identified as 'Not In My Back Yard' (NIMBY) objections to the risk posed by nuclear energy and nuclear waste. Illustrations with live Geiger readings formed a regular feature of these performances.</p> | 1988 |

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