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NORTEAMPTONSHIRE RECORD OFFICE



ZB 98. Records from Northampton Power Station

received from Mr C.H. Green: Accessions 1980/212 & 248

- 1 Report on the reconstruction of the Hardingstone Junction Generating Station, 1950 with comparison between Northampton and Warwick extensions 1956-58 programmes, 1950
- 2 Article by E.G. Bailey on Some Factors in Furnace Design for High Capacity reprinted from Fuels and Steam Power Section of Transactions of the American Society of Mechanical Engineers, Dec. 1928, pp 253-284
- 3 paper on tendencies in steam turbine developments by H.L. Guy 1929
- 4 pamphlet 'The Grid' containing articles on the origin, formation and work of the Central Electricity Board and the 'selected' power stations of the Grid reprinted from 'Electrical Industries' with amendments and additional analysis by Babcock & Wilcox, 1934
- 5 official test report of 8000 K.W. normal rated turbine direct coupled to a 10,667 K.V.A. maximum continuously rated alternator by Metropolitan Vickers of Manchester, April 1927
- 6 file relating to tests on air pump, condenser & pipework and estimate for replacing 1 & 2 turbo-alternators by a 12,000 Kw M.C.R. turbo-alternator &c. 1927
- 7 2 copies of official test report of 12,500 K.W. M.C.R. three-phase turbo-alternator by Metropolitan Vickers Electrical Co, June 1929
- 8 general file of correspondence & reports relating to chemical matters such as corrosion, smoke emission &c. 1950-68 with loose papers to 1970
- 9 file of general correspondence and reports relating to coal testing, water purification &c. 1952-62
- 10 file of directions from scientific service (i.e. the C.E.B.'s divisional chief chemist &c), 1952-70.

- 11 file relating to auxiliary and sewage disposal pumps supplied by Mather & Platt of Manchester, 1953-59
- 12 forms of advertisement for vacant posts, N.J.B, N.J.I.C. & N.J.C. vacancies, 1969-75
- 13 file of miscellaneous papers & drawings including Northampton Electricity Sports & Social Club rules & minutes 1957-60, brief report on reconstruction of generating station (undated, ?c.1945), outline plan of buildings, plans of water supply to boilers &c., specification for a fireless locomotive (filled with steam before working) 1933, particulars of Peckett locomotive as in 1972, detailed ground plan showing valves & hydrants, and various forms in use to record work done
- 14 copy of OS 6 in map showing proposed site of new coal store in meadow east of the power station (undated)
- 15 album of drawings and diagrams of proposed arrangement of 30,000 Kw C.M.R. turbine alternator, exciter and surface condensing plant at Northampton by C.A. Parsons Ltd of Heaton, Newcastle, 1937
- 16 drawing of arrangement of Melesco superheater for boilers 1& 2 by the Superheater Co, 1955
- 17 index to drawings of turbines, boilers, coal & ash plants compiled about 1959
- 18-21 xerox copies of 4 plan registers or indexes (made in 1975)
- 22 file containing corr. & papers relating to contract by Ferguson, Pailin Ltd of Manchester for 33,000 volt switchgear 1929
- 23 contract for 30,000 Kw continuous maximum rated turbine alternator and exciter and surface condensing plant by C.A. Parsons & Co. of Newcastle on Tyne, 1935 with schedule of comments and printed specifications with demarcation of work on a steam turbine and of turbo-type alternator and exciter; also specification for surface condenser and copy of specification with tender for 30,000 Kilowatt turbo-alternator and accessories, 1934
- 24 copy of contract documents (incl. specifications) for 2 150,000 lb/hr boilers and ancilliary equipment for the 1956 extension programme by Bennis Combustion Ltd, 1951

- 25 copy of contract documents for skip hoist and associated loading hopper ash handling plant by W.W. Brown & Partners, 1954
- 26 copy of contract documents for submerged ash and transfer conveyors ash handling plant by the John Thompson Conveyor Co, 1954
- 27 specification for turbo-alternator and condenser, 1909
- 28 specification for turbo-alternator and condensing plant with tender by Dick, Kerr & Co of London, 1915
- 29 specification for turbo-alternator and condensing plant with tender by British Thomson-Houston Co of Rugby, 1916
- 30 specification for boiler setting, 1917
- 31 specification for steam and water pipes, 1922
- 32 specification for turbo-alternator, with tender by Metropolitan Vickers Co, 1925 (No 5 set)
- 33 specification for turbo-alternator with tender by Metropolitan-Vickers Electrical Co., 1925 (No 5 set)
- 34 specification for condensing plant for 10,000 Kw maximum rated turbo-alternator, 1925 (No 5 set)
- 35 specification of patent cup type self cleaning circulating water screen by F.W. Brackett & Co of Colchester, 1925
- 36 specification and tender for patent cup type self cleaning circulating water screen from F.W. Brackett & Co of Colchester, 1926
- 37 specification for maximum continuously rated 12,500 K.W. turbo-alternator with tender by Metropolitan-Vickers Electrical Co, 1927. (No 6 set)
- 38 specification for condensing plant for a 12,500 Kw maximum continuously rated turbo-alternator, 1927
- 39 specification for coal handling plant, 1934
- 40 specification for water tube boilers and accessories with draft tender 1934 (Nos 11, 12, 13 boilers)

- 41 specification for foundations for engine house and boiler house including pile driving, foundations for ash handling plant, buildings, railway sidings including bridges, earthworks, circulating water pipes and pump house, 1934
- 42 specification for turbo-alternator and auxiliaries with tender by C.A. Parsons & co, Newcastle, 1937
- 43 specification for turbo-alternator with auxiliaries with tender by C.A. Parsons & Co, 1937 (No 8 set)
- 44 specification and tender for coal storage and reclaiming plant (drag scraper system) by Fraser & Chalmers of Erith, Kent, with proposals for foundations by Holst & Co of London, 1937-38
- 45 estimate, specification, tender &c for Hagan Patent Boiler Control and temperature control for one Stirling Boiler from James Gordon & Co of London, 1938
- 46 specification and tender for an ash handling conveyor by Fraser & Chalmers of Erith, Kent, 1940
- 47 specification for reinforced concrete cooling tower, 1949
- 48 specification for two steam generating units and accessories, 1949
- 49 tender and specification for coal handling plant by Fraser & Chalmers, 1959
- 50 schedule of comments on specification for turbo-alternator for which the Brush Electrical Engineering Co of Loughborough have tendered, 1951
- 51 working instructions for 30,000 Kw C.M.R. tandem cylinder turbine, alternator, exciter and Hick Hargreaves condensing plant by C.A. Parsons & Co of Newcastle including various drawings (1936 ?); also certificates of insulation tests, characteristics, efficiency, photographs &c 1935
- 52 instructions for Etsco shaping machine, 1951
- 53 brochure describing Brush Ljungstrom turbo-generators made by Brush Electrical Engineering Co of Loughborough, 1953
- 54 operating & maintenance instructions for contraflow Ljungstrom air preheaters on Bennis Combustion Ltd's stoker fired boilers by James Howden & Co of Glasgow, 1954 (Nos 1 & 2 boilers for No 1 turbine)

- 55 file of operating instructions including those for water tube boilers by Bennis Combustion Ltd, for sootblowers by Hopkinsons Ltd of Huddersfield, for flowmatic type regulator by Copes Regulators Ltd, of London, & for superheating by Melesco, 1955-6
- 56 operation and maintenance instructions for 30,000 KW C.M.R. turbo-generators and associated condensing, feed heating and auxiliary plant made by C.A. Parsons & Co of Newcastle on Tyne and installed at Hardingstone Junction Generating Station, printed 47 pp, stamped 1956
- 57 operating instructions for water treatment plant by the Permutit Co of London, 1956
- 58 instructions for erection and maintenance of fans, exhausters and blowers made by Keith Blackman Ltd of Tottenham, 1956
- 59 instructions for fixing and working centrifugal pumps types JV and JR by Holden & Brooke Ltd of Manchester, 1956
- 60 Brush Ljungstrom turbo generators service instructions 1956; also including instructions for installation of 'Allanite' Leafoil universal packing, instructions for De Laval centrifugal separator, operating instructions for De Laval P.S.E. turbine lub. oil purifying equipment, instructions for operating 'Mirrlees' steam-operated three-stage air ejectors for turbo alternator sets 1955, instructions for operating measuring instruments by George Kent Ltd of Luton; also (loose) article on Brush-Ljungstrom steam turbine by J.R. Hutchings; working instructions for Hick Hargreaves' Shunt Deaerating system 1955, and instruction manuals for tubular type heat exchange equipment by Serck Radiators Ltd of Birmingham.
- 61 general operating instructions for Simon-Carves' boiler (stoker fired), Northampton
- 62 instructions for operating A.E.1. I.D. & F.D. fan starters, boilers 11, 12 & 13.
- 63 brochure about Brush-Ljungstrom turbo-generators for large outputs by Brush Electrical Engineering Co of Loughborough
- 64 envelope of photographs showing damage caused by main exciter failure, 1964
- 65 album of photographs of 15 & 16 boilers, 1951-53

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66-71 6 albums of photographs of progress in
 building & installing equipment

22	8	50	22	6	51
4	7	51	23	10	51
23	11	51	24	4	52
26	5	52	24	11	52
19	12	52	22	5	53
24	6	53			

72-84 13 albums of photographs

15	9	49	29	12	50
29	12	50	24	5	51
24	5	51	23	10	51
23	10	51	27	3	52
24	4	52	25	10	52
26	10	52	24	4	53
24	5	53	31	12	53
31	12	53	21	7	54
24	8	54	21	3	55
21	3	55	24	8	55
18	10	55	27	2	56
27	2	56	23	8	56
23	8	56	6	12	56

85-86 2 albums of aerial photographs

3	6	51	23	3	54
23	3	54	-	10	56

87-88 a albums of undated photographs of 1 & 2 boilers

October 1980