Canadian Niagara Power Company engineering plans collection

1895-1971, n.d.

RG 573

Brock University Archives

Creator: Canadian Niagara Power Company
Extent: 1150 plans
Abstract: The collection contains architectural and engineering plans of the Rankine generating station, owned by the Canadian Niagara Power Company.
Materials: Architectural and Engineering plans
Repository: Brock University Archives
Processed by: Chantal Cameron
Last updated: September 2016
Acquisition info.: Material was found in the millwright’s office by Niagara Parks Commission staff, and given to the Brock University Archives by Fortis Ontario in 2015. The Niagara Parks Commission currently owns the Rankine generating station.

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Administrative history

The Canadian Niagara Power Company (CNP) was created in 1892, in large part due to the efforts of William Birch Rankine, a businessman who pioneered the development of hydropower on both the Canadian and American shores of the Niagara River. Numerous delays and problems postponed the construction and operation of the company’s powerhouse, which was formally opened on January 2, 1905. Upon opening, the powerhouse boasted the largest generators of their kind in the world, with a capacity of 10,000 electrical horsepower each. The company was acquired by Fortis Ontario in 2002, and the powerhouse was decommissioned in 2005. In 2009, the company’s water rights expired and the Canadian Niagara Powerhouse building, also known as the Rankine Generating Station, was turned over to the Niagara Parks Commission.

Scope and content


Organization

**Drawer 3:** Includes plans of the stuffing box and sleeve for turbine shaft; alternations and repairs to turbines; boring machine; turbine runner; turbine bearing. Most plans concern units 8, 9, and 10.

**Drawer 4:** Includes plans of head gates; forebay alterations; gathering weir; details of beams; thrust deck and thrust deck plates; wheel pit thrust deck; brake deck (wheel pit, beams); various components of hydraulic turbines (rings, cross head, runners, plates, guide bearing details, brakes, thrust bearing, penstock); and tunnels.

**Drawer 5:** Includes plans of steel work for the powerhouse; office building; main switchboard details; guide bearing decks; intermediate decks; steelwork for wheelpit guide bearing decks; steelwork for turbine deck; maps and profiles showing drives, water, sewers, drains & conduits adjacent to powerhouse; forebay; roadway to and from the powerhouse and transformer station; draft tubes; turbines pipes; head gates for turbines; railways; intakes for powerhouse and pump house; and turbine runners and brakes.
**Drawer 6:** Includes plans of turbine details of thrust bearing, runners, valve gear; turbine penstock and lower penstock elbow; power discharge; chart of monthly mean water levels; turbine wheels; draft tube sections; thrust deck; bushings on turbines; guide vane levers; tunnel; tail water regulating gate parts; transformer chamber; stairway chamber no. 3; steelwork in chambers 1, 2 and 3; generator reactors; turbine arrangement, brackets, casing, brakes, valves, piston chamber, bearings, turbine wheels, governor driving gear, and wrenches.

**Drawer 7:** Includes plans of the elevator; turbine hydraulic governor, brake details; thrust bearing details; elevation; alternations to draft tube; penstock and penstock elbow; steelwork for inlet racks & beams; racking machinery; chambers 4 & 5 showing brick lining and copper waterproofing; rack deck; steelwork for wheelpit rack deck; turbine details of casing, draft tube, distributor, valve chamber, valve stem guides, thrust bearing, and brakes; general arrangement of unit at powerhouse floor; brake deck; head gates; and stuffing boxes.

**Drawer 8:** Includes plans of the hydraulic elevator; landings and enclosures for elevator well; steelwork for elevators; south end elevator enclosure; elevation and section of east and west walls of wheel pit; powerhouse pressure systems; compressed air system plans; forebay roof, foundation wall, gatehouse, and windows; data and erection assembly parts; door closers; turbine units no. 8-10 repairs and cross-section; turbine shafts and stuffing boxes; details of runner vanes on turbines 8 & 9; high and low pressure water system; high pressure oil system; oil connections to governors; oil piping; Canadian governor oil system; arrangement of motor driven oil pump used on hydraulic turbine; oil tank, strainer and piping; general layout of governor pumps and piping on thrust deck oil system; cooling coils; and governor oil system.

**Related material:**

RG 5, Canadian Niagara Power Company fonds, Brock University Archives, Brock University.

RG 170, Canadian Niagara Power Company fonds, 1807-2001, Brock University Archives, Brock University.


RG 572, Canadian Niagara Power Company and Norman Ball research collection, 1890-2005, Brock University Archives, Brock University.


**Inventory**
<table>
<thead>
<tr>
<th>UNIT 11</th>
<th>5499165</th>
<th>CANADIAN NIAGARA POWER CO</th>
<th>1946</th>
<th>UNIT NO 11 ADJUSTABLE LIGNUM-VITAE BEARING</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 11</td>
<td>6249</td>
<td>CANADIAN NIAGARA POWER CO</td>
<td>1923</td>
<td>UNIT NO 11 CROSS SECTION OF 12000 HP TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807-18?</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>RH GUIDE VANE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>7880</td>
<td>CANADIAN NIAGARA POWER CO</td>
<td>1936</td>
<td>THRUST BEARING 44 INCHES FOR UNITED 6 TO 10 INC</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>16308</td>
<td>CANADIAN NIAGARA POWER CO</td>
<td>1946</td>
<td>UNIT NO 11 ADJUSTABLE LIGNUM-VITAE BEARING</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807183</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>FACING RINGS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>SHIFTING RING</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>19''</td>
<td>MAIN BEARING USED ON...</td>
<td>NA</td>
<td>19'' MAIN BEARING USED ON...</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>853356</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>STANDARD-facing RINGS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>GREASE DRAIN AND FILTERPIPING USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807195</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>FLOOR PLARES USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831454</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>STUFFING BOX AND COVER USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>REGULAATION DIAGRAM</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>18''</td>
<td>REGULATING CYLINDER USED ON HYDRAULIC TURBINE</td>
<td>1923</td>
<td>BASEPLATE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808136</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>BASEPLATE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831479</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>CROSS HEAD DETAILS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>853378</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>18'' PISTON AND PISTON RING USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>848141</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>CROSS HEAD GUIDE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>484146</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>CROSS HEAD GUIDE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>86439</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>4 1/4 PISTON ROD USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>805158</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>64'' X 30.5'' NO 15 RH RUNNER USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>MAIN SHAFT EXTENSION USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807190</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>MAIN SHAFT EXTENSION USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807176</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>18 DRAIN PIPING USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831409</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>20 MANHOLES SADDLE AND COVER USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807147</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>STEEL PLATE DRAFT TUBE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>CONCRETE DRAFT TUBE FOR CANADIAN NIAGARA FALLS...</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807167</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>LOWER ELBOW USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807168</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>PENSTOCK USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807172</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>EXPANSION JOINT WITH STUFFING BOX FOR PENSTOCK</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>807176</td>
<td>ALLIS CHAMBERS MFG CO</td>
<td>1923</td>
<td>STEEL PLATE UPPER PENSTOCK ELBOW USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808176</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>ASSEMBLY 12'' DIA. GUIDE BEARING USED FOR HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808106</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>DETAIL OF GIRDER FOR GUIDE BEARING DECKS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808101</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>GUIDE BEARING DETAILS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808102</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>GUIDE BEARING BRACKET USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831458</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>GUIDE BEARING USED ON HYDRAULIC TURBINE</td>
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<tr>
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<tr>
<td>UNIT 11</td>
<td>808181</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>GENERAL ARRANGEMENT OF BRAKE AND HAND OPERATING STAND CANADIAN POWER CO</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>809101</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>ASSEMBLY OF HAND OPERATED BRAKE USED ON NIAGARA POWER CO</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808139</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>DETAILS OF BRAKE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808142</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>HAND BRAKE DETAILS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808125</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>BRAKE DETAILS USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808140</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>DETAILS OF BRAKE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>809139</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>STAND AND DETAILS FOR HAND BRAKE USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>808107</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>DETAILS OF THURST BEARING USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>836230</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>WRENCH BOARD USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>810151</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1924</td>
<td>PIPING ARRANGEMENT FOR OIL PUMP USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>832417</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>39&quot;X84&quot;X60&quot; DEEP RECEIVING TANK FOR CANADIAN NIAGARA POWER CO</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831551</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1924</td>
<td>ASSEMBLY OF DIRECT CONNECTED FLY BALL USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>832437</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1923</td>
<td>ASSEMBLY OF RELAY #3 GOVERNOR USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>831533</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1924</td>
<td>30&quot; DIA X 108&quot; PRESSURE TANK USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>832341</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1924</td>
<td>ASSEMBLY OF #4 ROTARY OIL PUMP USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>1924</td>
<td>FOUNDATION USED ON HYDRAULIC TURBINE</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>NA</td>
<td>ALLIS CHALMERS MFG CO</td>
<td>NA</td>
<td>HAND REG</td>
</tr>
<tr>
<td>UNIT 11</td>
<td>16520</td>
<td>CANADIAN NIAGARA POWER CO</td>
<td>1959</td>
<td>REPAIRS TO UNIT NO 11 WINTER 1959</td>
</tr>
<tr>
<td>UNITS 8 TO 10</td>
<td>50817</td>
<td>THE WELLMAN-SEAVER-MORGAN CO</td>
<td>1915</td>
<td>12500 HP TURBINE DETAIL OF VALVE CHAMBER</td>
</tr>
<tr>
<td>UNITS 8 TO 10</td>
<td>50815</td>
<td>THE WELLMAN-SEAVER-MORGAN CO</td>
<td>1915</td>
<td>12500 HP TURBINE DETAIL OF DRAFT TUUBE</td>
</tr>
</tbody>
</table>
10. H7.3 10710.pdf CANADIAN NIAGARA POWER COMPANY 1903 STEEL WORK FOR WHEEL PIT THRUST DECK
10. H7.3 10662.pdf CANADIAN NIAGARA POWER CO 1903 THRUST DECK LAYOUT OF FLOOR FOR TYPICAL UNIT
10. H7.4 C-12360.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. 8,9 & 10 PLATES - BRAKE DECK
10. H7.4 C-12835.pdf CANADIAN NIAGARA POWER COMPANY 1918 UNIT NO. 6 DETAIL OF STEELWORK FOR SUPPORTING OIL TANK
10. H7.4 5756.pdf CANADIAN NIAGARA POWER CO 1924 UNIT NO. 11 BRAKE DECK FLOOR FRAMING PLAN
10. H7.4 5759.pdf CANADIAN NIAGARA POWER CO 1924 UNIT NO. 11 BRAKE DECK PLAN SHOWING FLOOR PLATES
10. H7.4 5949.pdf CANADIAN NIAGARA POWER CO 1924 UNIT NO 11 BRAKE DECK FLOOR PLATES
10. H7.4 10706.pdf CANADIAN NIAGARA POWER COMPANY 1903 DETAIL OF CASTINGS IN BRAKE DECK ADJACENT TO PIPE TO BALANCING PISTON
10. H7.4 10734.pdf CANADIAN NIAGARA POWER CO 1904 STEEL WORK FOR WHEEL PIT BRAKE DECK
10. H7.4 10735.pdf CANADIAN NIAGARA POWER CO 1904 STEEL WORK FOR WHEEL PIT BRAKE DECK
10. H7.4 10736.pdf CANADIAN NIAGARA POWER CO 1904 STEEL WORK FOR WHEEL PIT BRAKE DECK
10. H7.4 11942.pdf CANADIAN NIAGARA POWER COMPANY 1912 STEEL WORK IN WHEEL PIT MARKING DIAGRAMS AND DETAILS OF RACKS IN BRAKE DECK UNIT NO. 6
10. H7.4 C-12391.pdf CANADIAN NIAGARA POWER COMPANY 1912 UNIT NO. 7 STEELWORK FOR SUPPORT OF OIL TANK
10. H7.4 12405.pdf CANADIAN NIAGARA POWER COMPANY 1912 UNIT NO 7 MARKING DIAGRAM - BRAKE DECK
10. H7.4 C-12406.pdf CANADIAN NIAGARA POWER COMPANY 1912 UNIT NO 7 PLATE3 - BRAKE DECK
10. H7.4 C-12408.pdf CANADIAN NIAGARA POWER COMPANY 1912 UNIT NO. 7 DETAILS OF BEAMS - BRAKE DECK
10. H7.4 B-12594.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. B-11 MARKING DIAGRAM - BRAKE DECK BEAMS
10. H7.4 C-12595.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. B-11 DETAILS OF BEAMS-BRAKE DECK
10. H7.4 C-12596.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. B-11 DETAILS OF BEAMS-BRAKE DECK
10. H7.4 C-12597.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. B-11 DETAILS OF BEAMS - BRAKE DECK
10. H7.4 B-12598.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS NOS. 8,9 & 10 MARKING DIAGRAM - BRAKE DECK PLATES
10. H7.4 10733.pdf CANADIAN NIAGARA POWER CO 1904 STEEL WORK FOR WHEEL PIT MARKING DIAGRAM FOR BRAKE DECK
10. H9 10523-22991.pdf 50 TON ELECTRIC TRAVELING CRANE NO. 626-627 SECTIONS
10. H9 10523 SHEET 1.pdf WM SELLERS AND CO INC 1901 50 TON ELECTRIC TRAVELING CRANE NO. 626 & 627 CARRIAGE
10. H9 10729.pdf CANADIAN NIAGARA POWER CO 1909 CHAMBER NO. 3 OUTLINE DRAWING OF APPARATUS AND DIAGRAM OF OIL PIPING
10. H9 11749.pdf CANADIAN NIAGARA POWER COMPANY 1908 12500 H.P. TURBINE DETAILS OF THRUST BEARING
10. H9 11793.pdf CANADIAN NIAGARA POWER COMPANY 1909 12500 H.P. TURBINE DETAILS OF BALANCING PISTON CHAMBER
10. H9 11746.pdf CANADIAN NIAGARA POWER COMPANY 12500 H.P. TURBINE DETAILS OF THRUST BEARING
10. H9 B-12238.pdf CANADIAN NIAGARA POWER COMPANY 1911 UNIT NO'S 7-10 HUB SLEEVE AND BALL DISC
10-H-12.5 86333.pdf ALLIS-CHALMERS MFG CO. 1926 FLANGED BUSHING
10-H-12.5 86438.pdf ALLIS-CHALMERS MFG CO. 1925 SPEED PINK USED ON HYDRAULIC TURBINE
10-H-12.5 86542.pdf ALLIS-CHALMERS MFG CO. 1924
10-H-12.5 864400.pdf ALLIS-CHALMERS MFG CO. 1923
10-H-12.5 863331.pdf ALLIS-CHALMERS MFG CO. 1930 CUP BUSHING USED ON HYDRAULIC TURBINE
10-H-12.5 863319.pdf ALLIS-CHALMERS MFG CO. 1932 BUSHINGS USED ON HYDRAULIC TURBINE
10-H-12.5 508577.pdf CANADIAN WESTINGHOUSE CO. GENERATOR FRAMES SPECIAL LOWER OIL PAN
10-H-12.5 5573.pdf CANADIAN NIAGARA POWER CO. 1924 UNIT NO 11 SECTIONS THRU UNIT ON CENTERLINE IN WHEEL PIT
10-H-12.5 5699.pdf CANADIAN NIAGARA POWER CO. 1923 TURBINE DECK DETAILS
10-H-12.5 5873.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT NO 11 FLYBALL HOUSING SUPPORT
10-H-12.5 5515.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT NO 11 GENERAL ARRANGEMENT OF MACHINERY AT THRUST DECK
10-H-12.5 5518.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT #1 THRUST BEARING DETAILS OF CASING
10-H-12.5 5514.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT NO. 11 GENERAL ARRANGEMENT OF MACHINERY AT GUIDE DECKS
10-H-12.5 5516.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT #1 THRUST BEARING DETAILS
10-H-12.5 5519.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT #1 DETAIL OF SHAFTING
10-H-12.5 6004.pdf CANADIAN NIAGARA POWER CO. 1924 UNIT NO. 11 DETAIL OF GUARD FOR THRUST SHAFT
10-H-12.5 6270.pdf CANADIAN NIAGARA POWER CO. 1925 UNIT NO. 11 GIBBS THRUST BEARING RETAINER FOR ROTOR DISC
10-H-12.5 MISC_3.pdf CANADIAN NIAGARA POWER CO. 1923 UNIT #11 DETAILS OF SHAFT COUPLING BEARING BUSHING & BRAKE
10-H-12.5 MISC_7.pdf ALLIS-CHALMERS MFG CO. 1923 19" MIN BEARINGS USED ON HYDRAULIC TURBINE
10-H-12.5 MISC_8.pdf ALLIS-CHALMERS MFG CO. 1939 64" X 30 1/2" NO. 15 R.H. RUNNER USED ON HYDRAULIC TURBINE
10-H-12.5 813249.pdf ALLIS-CHALMERS MFG CO. 1936 64" X 30 1/2" NO. 15 R.H. RUNNER USED ON HYDRAULIC TURBINE
10-H-12.5 823221.pdf ALLIS-CHALMERS MFG CO. 1939 64" X 30 1/2" NO. 15 R.H. RUNNER USED ON HYDRAULIC TURBINE
10-H-12.5 MISC_9.pdf ALLIS-CHALMERS MFG CO. 1925 ST. PL SPIRAL CASING USED ON HYDRAULIC TURBINE
10-H-12.5 MISC_10.pdf ALLIS-CHALMERS MFG CO. 1923 R.H. SPEED RING USED ON HYDRAULIC TURBINE
10-H-12.5 MISC_11.pdf ALLIS-CHALMERS MFG CO. 1923 STEEL PLATE DRAFT TUBE USED ON HYDRAULIC TURBINE
10-H-12.5 807171.pdf ALLIS-CHALMERS MFG CO. 1923 CONCRETE DRAFT TUBE FOR CANADIAN NIAGARA FALLS POWER CO.
10-H-12.5 808200.pdf ALLIS-CHALMERS MFG CO. 1923 FOUNDATION PLAN FOR SUPPORTING SPIRAL CASING USED ON HYDRAULIC TURBINE
C-12231.pdf  CANADIAN NIAGARA POWER COMPANY  1911  TEES AND PLATE LOW ROOF OFFICE BUILDING
C-12232.pdf  CANADIAN NIAGARA POWER COMPANY  1911  OFFICE BUILDING TEES AND ANGLES
C-12233.pdf  CANADIAN NIAGARA POWER COMPANY  1911  OFFICE BUILDING DETAIL OF PLATES FOR VALLEY
C-12234.pdf  CANADIAN NIAGARA POWER COMPANY  1911  OFFICE BUILDING DETAILS OF CEILING ANGLES
C-12236.pdf  CANADIAN NIAGARA POWER COMPANY  1912  PLATFORM OFFICE BUILDING
C-12241.pdf  CANADIAN NIAGARA POWER COMPANY  1911  OFFICE BUILDING MULLION & FRAM DETAILS & OPENINGS FOR SASH WEIGHTS & PULLEYS
C-12253.pdf  CANADIAN NIAGARA POWER COMPANY  1912  OFFICE BUILDING FRESH AIR INLETS
C-12254.pdf  CANADIAN NIAGARA POWER COMPANY  1912  EXTENSION OF GALLERY OFFICE BUILDING
C-12284.pdf  CANADIAN NIAGARA POWER COMPANY  1912  CURB ANGLES AND HATCH BALCONY FLOOR
C-12287.pdf  CANADIAN NIAGARA POWER COMPANY  1914  OFFICE BUILDING CEILING HATCHES
B-12288.pdf  CANADIAN NIAGARA POWER COMPANY  1912  OFFICE BUILDING DETAIL OF WINDOW SASH
B-12294.pdf  CANADIAN NIAGARA POWER COMPANY  1912  HAND RAILING BALCONY
B-12298.pdf  CANADIAN NIAGARA POWER COMPANY  1912  BALCONY STAIRWAY DETAILS OF HAND RAIL
B-12299.pdf  CANADIAN NIAGARA POWER COMPANY  1912  BALCONY DETAILS OF HAND RAILING
B-12302.pdf  CANADIAN NIAGARA POWER COMPANY  1912  DETAILS OF STAIR AND RAILING BALCONY
D-12304.pdf  CANADIAN NIAGARA POWER COMPANY  1911  OFFICE BUILDING DETAILS OF CAST IRON UNTIL FOR GALLERY DOORS
C-12306.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STAIR-SECOND FLOOR TO ATTIC OFFICE BUILDING
C-12331.pdf  CANADIAN NIAGARA POWER COMPANY  1912  MARKING DIAGRAM POWER HOUSE DOOR
C-12340.pdf  CANADIAN NIAGARA POWER COMPANY  1912  OFFICE BUILDING STAIR-FIRST TO SECOND FLOOR
C-12341.pdf  CANADIAN NIAGARA POWER COMPANY  1912  OFFICE BUILDING STAIR-FIRST TO SECOND FLOOR
C-12353.pdf  CANADIAN NIAGARA POWER COMPANY  1912  OFFICE BUILDING DETAIL OF MAIN STAIRS
C-12358.pdf  CANADIAN NIAGARA POWER COMPANY  1912  POWER HOUSE DETAIL OF FRAMES FOR SLIDING DOORS
C-12370.pdf  CANADIAN NIAGARA POWER COMPANY  1912  SOUTH END OF POWERHOUSE & FOREBAY DETAILS OF WINDOWS
B-12383.pdf  CANADIAN NIAGARA POWER COMPANY  1912  BALCONY DETAIL OF CORNICE & PANELING
C-12438.pdf  CANADIAN NIAGARA POWER COMPANY  1912  HATCHES-FOREBAY CEILING OFFICE BUILDING
B-12455.pdf  CANADIAN NIAGARA POWER COMPANY  1912  MAINTWEEVE ROOM QUARTERED OAK OPERATORS DESK
C-12461.pdf  CANADIAN NIAGARA POWER COMPANY  1912  POWER HOUSE HARDWARE FOR DOORS AT SOUTH END
C-12478.pdf  CANADIAN NIAGARA POWER COMPANY  1913  POWER HOUSE LADDER TO CRANE AT SOUTHEND
10422.pdf  CANADIAN NIAGARA POWER COMPANY  1903  GUIDE BEARING DECKS UNITS NO. 8-10 DETAILS OF BEAMS
10677.pdf  CANADIAN NIAGARA POWER COMPANY  1903  GUIDE BEARING DECKS UNITS NO’S 8-10 MARKING DIAGRAM OF FLOOR PLATES
10678.pdf  CANADIAN NIAGARA POWER COMPANY  1903  GUIDE BEARING DECKS UNITS NO'S 8-10 DETAILS OF PLATES
10679.pdf  CANADIAN NIAGARA POWER COMPANY  1903  GUIDE BEARING DECKS UNITS NO'S 8-10 DETAILS OF GIRDERS
10730.pdf  CANADIAN NIAGARA POWER COMPANY  1904  TURBINES NO’S 8-10 MARKING DIAGRAM AND DETAILS OF PLATES - INTERMEDIATE DECKS
10731.pdf  CANADIAN NIAGARA POWER COMPANY  1904  TURBINES NO’S 8-10 DETAILS OF BEAMS - INTERMEDIATE DECKS
10732.pdf  CANADIAN NIAGARA POWER COMPANY  1904  TURBINES NO’S 8-10 DETAILS OF PLATES - INTERMEDIATE DECKS
10769.pdf  CANADIAN NIAGARA POWER COMPANY  1904  UNITS B,9 & 10 MARKING DIAGRAM AND DETAILS OF LADDERS
10866.pdf  CANADIAN NIAGARA POWER COMPANY  1904  TURBINES NO’S 8-10 RAILINGS FOR INTERMEDIATE DECKS
10867.pdf  CANADIAN NIAGARA POWER COMPANY  1904  UNIT NO 11 UPPER AND LOWER GUIDE DECKS FRAMING PLAN
10868.pdf  CANADIAN NIAGARA POWER COMPANY  1904  UNIT NO 11 UPPER AND LOWER GUIDE DECKS PLAN SHOWING FLOOR PLATES
10886.pdf  CANADIAN NIAGARA POWER COMPANY  1904  UNIT NO. 11 FRAMING PLAN & DETAILS OF THE INTERMEDIATE DECKS
11806.pdf  CANADIAN NIAGARA POWER COMPANY  1908  UNIT NO. 11 FLOOR PLATES FOR UPPER & LOWER GUIDE DECKS
11943.pdf  CANADIAN NIAGARA POWER COMPANY  1909  UNIT NO. 11 INTERMEDIATE DECKS NO. 6 & 7 DETAIL OF FLOOR PLATES
11953.pdf  CANADIAN NIAGARA POWER COMPANY  1909  UNIT NO. 11 INTERMEDIATE DECK NO. 9 DETAIL OF FLOOR PLATES
11954.pdf  CANADIAN NIAGARA POWER COMPANY  1909  UNIT NO. 11 MARKING DIAGRAM & DETAILS OF LADDERS
12024.pdf  CANADIAN NIAGARA POWER COMPANY  1909  STEELWORK FOR WHEELPIT GUIDE BEARING DECKS
C-12367.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STEELWORK FOR WHEELPIT GUIDE BEARING DECKS
C-12368.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STEEL WORK FOR WHEEL PIT GUIDE BEARING GIRTERS
C-12402.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STEELWORK FOR WHEELPIT GUIDE BEARING DECKS
C-12403.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STEEL WORK FOR WHEEL PIT GUIDE BEARING DECKS
C-12404.pdf  CANADIAN NIAGARA POWER COMPANY  1912  STEEL WORK FOR WHEEL PIT GUIDE BEARING DECKS
C-12601.pdf  CANADIAN NIAGARA POWER COMPANY  1915  STEELWORK FOR WHEEL PIT MARKING DIAGRAM FOR INTERMEDIATE DECKS
C-12602.pdf  CANADIAN NIAGARA POWER COMPANY  1915  STEEL WORK FOR WHEEL PIT INTERMEDIATE DECKS
C-12603.pdf  CANADIAN NIAGARA POWER COMPANY  1915  STEEL WORK FOR WHEEL PIT INTERMEDIATE DECKS
MAP & PROFILES SHOWING DRIVES, WATER, SEWERS, DRAINS & CONDUITS ADJACENT TO POWER HOUSE

10 - H7.1 11299_1.pdf CANADIAN NIAGARA POWER CO 1908 FOREBAY
10 - H7.1 MISC_6.pdf CANADIAN NIAGARA POWER CO 1903 ORIGINAL PRINT IN R1 FILE
10 - H7.1 MISC_7.pdf CANADIAN NIAGARA POWER COMPANY 1903 EAST SIDE OF WHEELPIT ABOVE ELEVATION 425 SHOWING LOCATION OF CHECKS FOR CASTINGS UNITS 6-11
10 - H7.1 A-12634.pdf CANADIAN NIAGARA POWER COMPANY 1918 UNITS 8-10 EAST WALL OF WHEELPIT BELOW ELEV. 436
10 - H7.1 11001.pdf CANADIAN NIAGARA POWER CO 1904 ELEVATION OF SOUTH WALL OF WHEELPIT
10 - H7.1 D-12970.pdf CANADIAN NIAGARA POWER COMPANY 1903 PLAN OF BRICK PAVEMENT FOR ROADWAY TO SOUTH END OF POWER HOUSE
10 - H7.1 D-12494.pdf CANADIAN NIAGARA POWER COMPANY 1913 PLAN OF BRICK PAVEMENT FOR ROADWAY TO SOUTH END OF POWER HOUSE
10 - H7.1 C-11550.pdf CANADIAN NIAGARA POWER COMPANY 1906 MAP OF PROPOSED ROADWAY FROM POWER HOUSE TO TRANSFORMER STATION
10 - H7.1 11170.pdf CANADIAN NIAGARA POWER CO 1905 PLAN SHOWING LOCATION FOR CONDUIT AND WATER MAIN
10 - H7.1 C-12479.pdf CANADIAN NIAGARA POWER COMPANY 1913 RACK DECK ALTERATIONS OF RACKS BELOW WEEPER BOXES
10 - H7.1 10165.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING BRACKET FOR SUPPORT OF 24 INCH I BEAMS
10 - H7.1 10169.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING BASES FOR COLUMNS TO BRACE WHEEL PIT WALLS
10 - H7.1 10204.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING LOWER ELBOW AND SOLE PLATE FOR DRAFT TUBES FOR 10000 HP TURBINES
10 - H7.1 10206.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING STRAIGHT SECTION OF PIPE FOR DRAFT TUBES FOR 10000 HP TURBINES
10 - H7.1 10236.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING CAST IRON BRACKETS FOR SUPPORT OF LOWER PENSTOCK ELBOW
10 - H7.1 10241.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING CASTINGS FOR SUPPORT OF TURBINE DECK BEAMS
10 - H7.1 10262.pdf CANADIAN NIAGARA POWER COMPANY 1903 BRACKET CASTINGS FOR 24" BEAMS IN RACK DECK
10 - H7.1 10284.pdf CANADIAN NIAGARA POWER CO 1903 PLAN SHOWING SECTION OF PIPE FOR DRAFT TUBES SUPPORTING TURBINE CASING FOR 10000 H.P. TURBINES
10 - H7.1 10292.pdf CANADIAN NIAGARA POWER CO 1903 PIPE FOR DRAFT TUBES SUPPORTING TURBINE CASING
10 - H7.1 10369.pdf CANADIAN NIAGARA POWER CO 1903 TAIL WATER REGULATING GATE PLAN SHOWING RECESES IN MASONRY LINING OF WHEEL PIT
10 - H7.1 10453.pdf CANADIAN NIAGARA POWER COMPANY 1903 WEEPER BOXES AND ANCHOR BOLTS FOR WHEELPIT LINING
10 - H7.1 10555.pdf CANADIAN NIAGARA POWER CO 1903 SKETCH SHOWING STONEWORK AT RECESES IN MASONRY LINING OF WHEEL PIT FOR TAIL WATER REGULATING GATE
10 - H7.1 10585.pdf CANADIAN NIAGARA POWER COMPANY 1903 RECESS IN BRICK LINING AROUND DRAFT TUBES FOR REMOVING BOLTS
10 - H7.1 10726.pdf CANADIAN NIAGARA POWER COMPANY 1904 DETAILS OF CAST IRON GUTTER AT TOP OF WHEELPIT LINING
10 - H7.1 11936.pdf CANADIAN NIAGARA POWER COMPANY 1903 CASTINGS TO SUPPORT GIRDERS IN WHEELPIT
10 - H7.1 11992.pdf CANADIAN NIAGARA POWER COMPANY 1909 12500 H.P. TURBINE UNIT NO 6 DETAILS OF WHEELCASE FOUNDATION ANCHOR BOLTS WITH SECTIONS OF WHEELPIT WALLS
10 - H7.1 C-12419.pdf CANADIAN NIAGARA POWER COMPANY 1912 UNIT 7 SECTION OF WHEELPIT AT DRAFT TUBES
10 - H7.1 A-12583.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS 8-10 DRAFT TUBE - SECTIONS
10 - H7.1 C-12638.pdf CANADIAN NIAGARA POWER COMPANY 1915 UNITS 8-10 CAST STEEL DRAFT TUBE APRON
10 - H7.1 10008.pdf CANADIAN NIAGARA POWER CO 1901 TYPICAL CASTINGS TO BE FURNISHED AND SET IN WHEELPIT WALLS
10 - H7.1 10043.pdf CANADIAN NIAGARA POWER CO 1902 PLAN SHOWING CASTINGS SUPPORTING BEAMS AND GIRDERS IN WHEELPIT
10 - H7.1 10044.pdf CANADIAN NIAGARA POWER COMPANY 1902 PLAN SHOWING CASTINGS SUPPORTING BEAMS AND GIRDERS IN WHEELPIT
10 - H7.1 10088.pdf CANADIAN NIAGARA POWER COMPANY 1900 10000 HP. TURBINES PIPE BEND
10 - H7.1 10089.pdf CANADIAN NIAGARA POWER COMPANY 1902 10000 HP. TURBINES PIPE WITH CONSOLS
10 - H7.1 10090.pdf CANADIAN NIAGARA POWER COMPANY 1902 10000 HP. TURBINES PIPES AND SOLE PLATE
10 - H7.1 10091.pdf CANADIAN NIAGARA POWER COMPANY 1902 10000 HP. TURBINES PIPE BEND
10 - H7.1 10145.pdf CANADIAN NIAGARA POWER COMPANY 1902 PROFILE OF BOTTOM OF FACE OF UPPER WHEELPIT CONCRETE LINING
10 - H7.1 10151.pdf CANADIAN NIAGARA POWER CO 1902 CASTINGS TO SUPPORT GIRDERS IN WHEELPIT
10 - H7.1 16461.pdf CANADIAN NIAGARA POWER CO 1954 DRAFT TUBE CUTTING MACHINE DETAILS AND ASSEMBLY
10 - H2 5535.pdf CANADIAN NIAGARA POWER CO 1924 UNIT #11 HEAD GATE DETAILS OF APRON AND GROOVES
10 - H2 11340.pdf CANADIAN NIAGARA POWER COMPANY 1905 GENERAL ARRANGEMENT & DETAILS OF STEEL ENCLOSURES FOR HEAD GATES
10 - H2 11706.pdf CANADIAN NIAGARA POWER CO 1909 1. 23" -11 1/2" BOX GIRDER FOR HEAD GATE
10 - H2 10538.pdf CANADIAN NIAGARA POWER CO 1903 HEAD GATES FOR 10000 HP TURBINES GATE MOTION INDICATOR
10 - H2 B-12259.pdf CANADIAN NIAGARA POWER COMPANY 1912 HEAD GATES FOR 12500 H.P. TURBINES ASSEMBLY OF HANDWHEEL AND HANDWHEEL AND INDICATOR BRACKET
10 - H2 10534.pdf CANADIAN NIAGARA POWER CO 1903 HEAD GATES FOR 10000 H.P. TURBINES DETAILS OF WICKET GATES AND CAST IRON GROOVES
10 - H2 10530_1.pdf CANADIAN NIAGARA POWER CO 1911 HEAD GATES FOR 10000 H.P. TURBINES PLAN SHOWING GENERAL ARRANGEMENT
10 - H2 10533.pdf CANADIAN NIAGARA POWER CO 1911 HEAD GATES FOR 10000 H.P. TURBINES DETAILS OF APRON AND BOX GIRDER
10 - H2 B-12579.pdf CANADIAN NIAGARA POWER COMPANY 1915 HEAD GATES UNITS 8-11 DETAILS OF BEARINGS & HAND HOIST
2-R1-M26 12417.pdf BUFFALO NIAGARA & EASTERN POWER CORP. 1934 25 CYCLE TRANSMISSION SYSTEM BUFFALO POWER RESTORATION DIAGRAM
2-R1-M26 15718.pdf CANADIAN NIAGARA POWER CORANKINE STATION 1933 RANKINE STATION ICE DRAG FOR GATHERING WEIR POOL MECHANICAL ARRANGEMENT
2-R1-M26 15717.pdf CANADIAN NIAGARA POWER CO 1938 RANKINE STATION ICE DRAG FOR GATHERING WEIR POOL GENERAL ARRANGEMENT
2-R1-M26 11881.pdf THE CANADIAN NIAGARA POWER CO. 1908 GENERAL ARRANGEMENT AND DETAILS OF CONTROLLER FOR TUG
10 - H6  C-12433.pdf  CANADIAN NIAGARA POWER COMPANY 1912  PLAN SHOWING TRANSFORMER CHAMBER NORTH OF INLET NO 8
10 - H6  D-12325.pdf  CANADIAN NIAGARA POWER COMPANY 1912  PLAN SHOWING WATER-PROOFING OF CHAMBER NORTH OF INLET NO 6
10 - H6  B-12251.pdf  CANADIAN NIAGARA POWER COMPANY 1912  DYNAMO-ARCH-UNITS NOS 7 - DIMENSION STONE MASONRY AROUND OPENING
10 - H6  11316.pdf  CANADIAN NIAGARA POWER CO 1905  GENERAL PLAN AND DETAILS OF WATERPROOF LINING AT REAR OF CHAMBER NO. 1
10 - H6  11189.pdf  CANADIAN NIAGARA POWER CO 1905  DETAILS OF COPING STONES FOR BENCH UNDER PENSTOCK NO 11
10 - H6  11186.pdf  CANADIAN NIAGARA POWER COMPANY 1905  DETAILS OF DRAFT TUBES IN CHAMBER NO 4
10 - H6  11175.pdf  CANADIAN NIAGARA POWER CO 1905  GENERAL ARRANGEMENT AND DETAILS OF VENTILATING HATCHES AND STAIRWAYS IN SMALL SUBWAY
10 - H6  11094.pdf  CANADIAN NIAGARA POWER COMPANY 1905  GENERAL PLAN AND DETAILS OF SHEET METAL - PLASTER WATERPROOFING FOR RELINING CHAMBER NO 1
10 - H6  11003.pdf  CANADIAN NIAGARA POWER COMPANY 1904  DETAILS OF DRAFT TUBES FOR TURBINES IN CHAMBER NO 3
10 - H6  10888.pdf  CANADIAN NIAGARA POWER CO 1904  STAIRWAY IN CHAMBER NO 3
10 - H6  10887.pdf  CANADIAN NIAGARA POWER CO 1904  STAIRWAY IN CHAMBER NO 3
10 - H6  10857.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10856.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10855.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10854.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10853.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10852.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10851.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10850.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10605.pdf  CANADIAN NIAGARA POWER COMPANY 1903  SKETCH SHOWING SUBWAY FLOOR UNDER SWITCHBOARDS
10 - H6  10526.pdf  CANADIAN NIAGARA POWER CO 1903  CROSS SECTION OF MAIN SUBWAY AND SWITCH BOARD GALLERY
10 - H6  10493.pdf  CANADIAN NIAGARA POWER COMPANY 1903  STONE TEMPLETS FOR 24" BEAMS IN POWERHOUSE FLOOR
10 - H6  10681_2.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10670.pdf  CANADIAN NIAGARA POWER CO 1903  HYDRAULIC MACHINERY IN CHAMBER NO 1
10 - H6  10516.pdf  CANADIAN NIAGARA POWER CO 1903  PLAN SHOWING DIMENSIONS OF CHAMBER NO 2
10 - H6  10075.pdf  CANADIAN NIAGARA POWER COMPANY 1902  SECTION OF GENERATOR ARCH SHOWING LENGTH OF FOUNDATION BOLTS
10 - H6  D-12811.pdf  CANADIAN NIAGARA POWER COMPANY 1917  GENERATOR REACTORS GENERAL ARRANGEMENT OF CHAMBER
10 - H6  D-12805.pdf  CANADIAN NIAGARA POWER COMPANY 1917  GENERATOR REACTORS SECTIONS OF CHAMBERS
10 - H6  C-12662.pdf  CANADIAN NIAGARA POWER COMPANY 1915  TOILET ROOM DRAINS CHAMBER NO 5
10 - H6  C-12649.pdf  CANADIAN NIAGARA POWER COMPANY 1915  EXCITER TRANSFORMER CHAMBER DETAIL OF RAILINGS
10 - H6  C-12648.pdf  CANADIAN NIAGARA POWER COMPANY 1915  EXCITER TRANSFORMER CHAMBER DETAIL OF STAIRWAY
10 - H6  C12454.pdf  CANADIAN NIAGARA POWER COMPANY 1912  DETAILS OF TELEPHONE BOOT IN MAIN SUBWAY
10 - H6  12454.pdf  CANADIAN NIAGARA POWER COMPANY 1912  DETAILS OF TELEPHONE BOOTH IN MAIN SUBWAY
10 - H6  12260.pdf  CANADIAN NIAGARA POWER CO 1903  UNITS NOS 7- FOUNDATION STONES AND ST, FOR 12500 H.P. GENERATOR
10 - H6  C-12129.pdf  CANADIAN NIAGARA POWER COMPANY 1911  COMPLETION OF POWER HOUSE LOCATION OF ANCHORAGE BOLTS FOR COLUMNS
10 - H6  11994.pdf  CANADIAN NIAGARA POWER COMPANY 1909  PLAN & SECTIONS SHOWING SUSPENDED CEILING IN SUBWAY FRAMES & COVERS FOR OPENINGS UNDER HANDHOLES
10 - H6  11188.pdf  CANADIAN NIAGARA POWER CO 1905  DETAILS OF DISCHARGE PIPE FROM CHAMBER NO 5
10 - H6  10908 SHEET 1.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10908 SHEET 2.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10908 SHEET 3.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10908 SHEET 4.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK IN CHAMBER NO 3
10 - H6  10681_1.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10683_2.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10684_2.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10686_2.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10798.pdf  CANADIAN NIAGARA POWER CO 1904  PLAN SHOWING CAST IRON BASE FOR TURBINES AND PUMPS IN CHAMBER NO 2
10 - H6  10789.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK FOR CHAMBER NO 2
10 - H6  10788.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK FOR CHAMBER NO 2
10 - H6  10787.pdf  CANADIAN NIAGARA POWER CO 1904  STEELWORK FOR CHAMBER NO 2
10 - H6  10686_1.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
10 - H6  10685.pdf  CANADIAN NIAGARA POWER CO 1903  STEELWORK FOR CHAMBER NO 1
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