Western Museum of Mining & Industry
Robert Duxbury Collection (1977-2000)

Duxbury was an engineer and spent much of his career working with mining companies on various projects, including those listed below. Of special importance are the folders relating to the Empire IV Project, located on Michigan's Upper Peninsula.

Box 1

Folder 1: Blast Furnace Data

Folder 2: Buckingham Project, Climax Molybdenum, 1981

Folder 3: Davy Company, Promotional Literature

Folder 4: Henderson Mill, Flowsheet and May 1980 issue of *Diggin's*

Folder 5: McKee Company, Promotional Literature
Folder 6: McKee Company, Empire IV Project, Monthly Progress Reports
Folder 7: McKee Company, Empire IV Projects, Monthly Progress Reports Photographs
Folder 8: McKee Company, Empire IV Project, Concentrator & Ancillaries, 1977-1978
Folder 9: McKee Company, Empire IV Project, Concentrator & Ancillaries, Project Plan & Subcontract Documents, 1977-1978
Folder 10: McKee Company, Empire IV Project, Subcontract Documents, 1977-1978
Folder 11: McKee Company, Empire IV Project, Maps, Flowcharts, Blueprints (all copies), 39 sheets

Folder 12: Mount Emmons Project, Volume 1: Surface Facilities Feasibility Estimate, Jan 1980

Folder 13: Mount Tolman Project, Diagram Copies

Folder 14: Pacific Texas Pipeline Project, Articles, Sep 1985-Jun 1988
Folder 15: Pacific Texas Pipeline Project, Environmental Impact Report/Statement, Nov 1985

Folder 16: Stearns-Roger Company, Articles, Jun 1992-Mar 1994
Folder 17: Stearns-Roger Company, Correspondence, 1979, 1982, 1985-1986, 1990, including two copies of the company's 1985 centennial book

Folder 18: Steel Plant Design References

Folder 19: United Engineers & Constructors, Job Award Notices

Folder 20: Washington Group International, *Washington News*, Summer, Fall 2000

Box 2

Folder 1: Brown Folder: McKee Company, Companhia Siderurgica Paulista, 2.300.000 Ton Expansion Plan, Industrial water distribution study, Contract 3816, March 15, 1972 (Original and Revised Report), Revised Report: September, 22, 1972

Folder 2: Green Folder (Number 1): McKee Company, Companhia Siderurgica Paulista - Cospia: A Specification For The 2.3 Million Ton Expansion Plan, Instructions To Bidders, Requisition NO. 3816-33.21.23.37, Consists of the following: Additions to No.1 Pumphouse, Additions to Water Treatment Plant, Water Recirculating Systems, June 26, 1972

Folder 3: Green Folder (Number 2): McKee Company, Companhia Siderurgica Paulista - Cospia: A Specification For The 2.3 Million Ton Expansion Plan, Instructions to Bidders, Requisition NO. 34-1-3577, Basic Oxygen Furnace Shop, Recirculating Water Systems, October 20, 2972

Folder 4: Black Folder (Number 1): McKee Company, Air Handling Design Data, Including: Theory Of Air Conditioning, Underhearth Cooling Design Data (December 27, 1964), Air Duct Design

Table 1: Construction For Medium Pressure Ducts is loose in the Air Duct Design Tab. It is part of Cont. No. 3743-2-01. At the end of the folder there are several pages that are loose. They are titled Fluid Power Design Aids, 3.1-40.

Folder 5: Black Folder (Number 2): Mckee Company, Codes and Standards References, Including: North American Turbo Blowers (March 8, 1974), Hoists and Trolleys, Fluid Terminology, ASME: Performance Test Codes, ISO (July 1, 1972 Cont. No. 3816), Pumps: Materials and Construction, Hydraulic Institute Standards

The first folder has pages titled Selecting.. The Proper Size Cylinder For The Job, Cylinder Bore and Piston Rod Selector Charts, Piston Rod & Cylinder Bore Selector Chart No.1.

Some of the folder tabs are loose and it looks as if one is missing

Folder 6: Black Folder (Number 3): Mechanical References, Including: Bolts, Nuts, Threads (October 1, 1953), Washers- Pins (May 15, 1950), Keyway Dimen. (January 6, 1958), C'Bores and Slots (October 7, 1954), "O" Rings (June 24, 1954), THD. Necks and C'Bore (November 30, 1953), Misc. Information (Including some loose pages), Pipe Ref., Alemite: Lubrications and Fittings, Steel Shapes, and Weld Symbols

Before the first folder there are pages that are loose. The titles are Manufacturing Power,Control, and Instrumentation Systems, Enclosures For Industrial Controls and Systems, a General information Booklet, a List Of Conversions and Definitions, Flow Nomograph NO.1, Crane Safety and Relief Valves, Exactol Crank-Operated Manual Bender. There are also some miscellaneous pages that are loose at the end of the folder.

Some of the folder tabs are loose

Folder 7: B.F. Goodrich Company, Blue Print Drawings, Master Batch- Step I_Mixing- Flow Sheet ‘D’,

Folder 8: McKee Company Drawings, No. 8 Blast Furnace UnderHearth Cooling System Cooling Pipes and Plenum Chamber Arrangements and Details, Cont. No. 3512, March 6, 1968

Folder 9: McKee Company Drawings, Blast Furnace “E” Underhearth Cooling System-Details, Cont. No. CCL-125, May 6, 1966

Folder 10: McKee Company, Runout Table Spray Cooling: Description of Changes, Cont. No. 3577, June 29, 1972

Folder 11: McKee Company Drawing No. 188620, Steel Works No. 2 Blast Furnace: 1975 Rebuild Cast House Cinder Runner Extensions General Arrangements and Details, Cont. No. 4315, May 1, 1975

Folder 12: McKee Company Drawing No. 188621, Steel Works No. 2 Blast Furnace: 1975 Rebuild Cast House Cinder Runner Extensions Support Steel and Concrete, Cont. No. 4315, May 7, 1975

Folder 13: Hot and Cold Blast Line Calculations: Design Material Blast Furnace No. 2, Job No. N-5876, January 3, 1973 and Revised January 29, 1973