



Westerman Companies

Main Office 740-569-414

www.westermancompanies.com

**WESTERMAN COMPANIES
245 NORTH BROAD STREET
BREMEN, OHIO 43107**

AUGUST 2009

Serving the Nuclear Industry since 1986



WESTERMAN COMPANY, INC.

245 NORTH BROAD STREET

BREMEN, OHIO

PLANT SURVEY

General

**Westerman Inc.
245 North Broad Street
Bremen, Ohio 43107**

**800.338.8265 Phone
740.569.4111 Fax
www.westermancompanies.com**

Type of Business: Corporation

**Years in Business 100 In Metal Fabrication (Founded 1909)
23 In Nuclear Applications**

Dun & Bradstreet Rating 4A2

Dun & Bradstreet Number 004302675

Annual Sales (Approximate) \$75,000,000.00 (2008)

Central Contractor Registration: Active

Number of employees:

Draftsman	7	Machinist	27
Shop Production	89	Maintenance	5
Quality Control	8	Office and Other	38
Truck Drivers	11	Total Employees	185

Subsidiaries

**Westerman Rocky Mountain
4201 Industrial Parkway
Evans, CO 80620**

**Westerman Nuclear LLC
299 North Broad St.
Bremen, Ohio 43107**

**Wooster Tool & Supply Company
899 Venture Blvd.
Wooster, OH 44691**

The Westerman Companies

Company Leadership

President/CEO	Terry A. McGhee
Executive Vice President/COO	Barry S. Keller
Executive Vice President/CFO	Melissa J. Eaton
V.P. Operations- Steel Fabrication Division	John M. Sulzmann
V.P. Operations- Wooster Tool & Supply Co.	Brian L. Householder
V.P. Operations- Controls Division	Todd I. Lape
V.P. Engineering	Lowell W “Mel”. Shelly
V.P. of Quality Assurance	Brooke A. Conrad
V.P. Human Resources	Stacy L. Howard
V.P. & General Manager - Nuclear Division	Matthew J. Dodds
V.P. Nuclear Quality Assurance	John D. Bossone
Director of Business Development	James J. Christian
Nuclear Division Sales	William S. Moore
Technical Director	Stephen E. Grimm

Products

Commercial Nuclear Power Plant Components

Radwaste Containers Storage Tanks

ASME Section III & Section VIII Pressure Vessels

Heat Exchangers ANSI UF6 Cylinders Accumulators

Weldments : Structural & Support

Services

ASME Sect. III Material Certification (MO)

Quality Assurance Programs

NQA-1 certified by ASME nuclear program accreditation

ISO 9001:2000

Certifications

10CFR 50 (Appendix B) 10CFR21 10CFR 71 Subpart H

Code	Type	Materials
ASME Sect.III ASME Sect.VIII	NA, N, NPT, NS and N3 U, UM & PP	Stainless & Carbon Steel
NAT. BOARD	R	Stainless & Carbon Steel
API	12F, 650	Carbon Steel
UL	UL58, UL142, UL80	Carbon Steel
ANSI	N14.1	Carbon Steel

Facilities

Approximate Total SQ. Feet of Working Area 230,000 SQ. FT.

A. Welding, Etc.: 173,000 Sq. Ft. * B. Machine Shop: 35,000 Sq. Ft.

C. Assembly 15,000 Sq. Ft. * D. Testing: 10,000 Sq. Ft.

- Welding & Assembly Completed in Same General Area.

A.S.M.E. Code Qualified Welders

Number	Process	Types of Material for Which Qualified
82	Shielded Metal Arc	Carbon Steel / Stainless / Alloy
23	Submerged Arc	Carbon Steel / Stainless
90	GMAW	Carbon Steel / Stainless / Alloy
4	GTAW	Carbon Steel/Stainless

Code Inspection Agency:

Hartford Steam Boiler, CT.
P.O. BOX 30009
HARTFORD CT 06150-0009

Material Scope

Product mix in percents of type of fabrication –
70% Tanks and Pressure Vessels, 30% other fabrications

Product mix in percents of materials of construction:
60% Carbon Steel, 35% Stainless Steel, 5% Alloy

Material	Thickness		O.D.	
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
CARBON STEEL	2-1/2IN.	1/16 IN.	14 FT.	4 IN.
STAINLESS	1 IN.	1/16 IN.	14 FT.	4 IN.
CLAD	3/4 IN.	1/16 IN.	12 FT.	36 IN.
NICKEL	1 IN.	1/16 IN.	12 FT.	4 IN.
NICKEL ALLOYS	1 IN.	1/16 IN.	12 FT.	2 IN.

Building Bay & Crane Data:

NO.	Width x Length	Capacity	Type of Lift	Floor Construction
5	40 FT. X 300 FT.	3 Ton	Electric	Concrete
2	40 FT. X 70 FT.	5 Ton	Electric	Concrete
2	30 FT. X 150 FT.	5 Ton	Electric	Concrete
10	VARIOUS	1 Ton	Electric	Concrete
2	60 FT. X 250 FT.	20 Ton	Electric	Concrete
7	50 FT. X 100 FT.	5 Ton	Electric	Concrete
3	40 FT. X 300 FT.	5 Ton	Electric	Concrete
2	50 FT. X 100 FT.	5 Ton	Electric	Concrete
1	60 FT. X 100 FT.	25 Ton	Electric	Concrete

Largest Physical Dimensions Able To Fabricate

14'0" OD X 50'0" Long (Maximum Tonnage Lift 40 Ton)

Heat Treating by Subcontractor

Location of Subcontractor: Columbus, OH & Cincinnati, OH

Number of Readings Recorded: Customer's Specs

Inside Furnace Dimensions: 14'2" X 14'6" X 44' Long

Automatic or Manual: Manual

Max. Cont. Temp. 1650 Degree F.

Method of Loading: Crane or Rail

NON-DESTRUCTIVE TESTING:

IN ACCORDANCE WITH ASNT-TC-1A & ASME SECT. V

X-RAY: 2 SOURCES IN HOUSE (1 Portable)

PENETRATE 2" DARKROOM INHOUSE LIQUID PENETRATE: VISABLE DYE

VISUAL TESTING (VT): IN HOUSE

ULTRASONIC (UT) & MAGNETIC PARTICLE (MT): SUBCONTRACTED

TEST PRESSURES AVAILABLE:

HYDRAULIC LIMITS:	5000 PSIG
HYDROSTATIC LIMITS:	2,000 PSIG
SHOP AIR LIMITS:	100 PSI

PHYSICAL TESTING SUBCONTRACTED:

BOWSER-MORNER LABS, DAYTON OHIO

TENSILE - YES TYPE - MECH. BENDING CAPACITY 1/2"

IMPACT - YES TYPE - CHARPY LOWEST TEMPERATURE -320 F

CHEMICAL TESTING EQUIPMENT SUBCONTRACTED:

BOWSER-MORNER LABS, DAYTON OHIO

SHIPPING FACILITIES

LARGEST DOOR : 20'0" X 25'0"

SIDING AT PLANT: YES SPUR IN BUILDING: NO

LOADING CAPACITY AT SIDING: CRANE TYPE: 50 TON

RAILROAD NORFOLK SOUTHERN - CONRAIL

NO FACILITIES FOR WATER SHIPMENT

COMPANY TRUCK FLEET: 14

CUTTING EQUIPMENT (MAX. CAPACITY)

PLATE SHEARS 3/4" X 10'0"

PLATE EDGE BEVELED 1/2"

AUTO FLAME CUTTING 3"

POWER CUTTING (SEE MACHINE SHOP)

16" W.F.WELL BAND SAW (2)

END MILL (SEE MACHINE SHOP)

PLATE ROLLS

	1.	2.	3.
MAX. PLATE TH.	1/2"	1/2"	1"
LENGTH	6FT	10FT	10 FT
MINIMUM I.D.	8"	16"	30"

BRAKES

TYPE : HYDRAULIC
CAPACITY: 80 TON
MAX. PLATE THICK : 3/8"
LENGTH: 10'0"

FLANGING MACHINE

TYPE: HYDRAULIC
CAPACITY: 80 TON
MAX. PLATE THICK: 3/8"
MAX. DIV. OF STD. F.G. HEADS 12'0" OD
MAX. DIV. OF STD. F&S HEADS: PURCHASED

ROLLS

ANGLE	TYPE	FLAT	CAPACITY:	1" X 3" FLAT
CONE	TYPE	CONCENTRIC, ECCENTRIC	CAPACITY:	3/4"X6'0" LONG

HYDRAULIC PRESS

NUMBER	TYPE	CAPACITY (TONS)
6' X 12'	VERTICAL	500

6' X 20'

HORIZONTAL

500

TUBE & PIPE BENDING

FACILITIES FOR COLD BENDING INCLUDING TABLE MACHINES & LIMITATIONS ARE SUBCONTRACTED.

FACILITIES FOR HOT BENDING INCLUDING FURNACE DESCRIPTION AND SAND LOADING EQUIPMENT SUBCONTRACTED.

SAND OR SHOT BLASTING EQUIPMENT

SANDBLAST:	IN-HOUSE	SHOT BLAST:	IN-HOUSE
DIMENSIONS:	14'0" X 50'0"		

WELDING EQUIPMENT

NO. AC - 3	CURRENT RANGE	1200 AMP	
NO. DC - 36	CURRENT RANGE	400 -1000 AMP	
WELDING POSITIONERS	QUANTITY:	4	TYPE: POWER
SHELL TURNING ROLL	QUANTITY:	12	TYPE: POWER
SEMI-AUTOMATIC WELDING	QUANTITY:	12	TYPE: SUBMERGED ARC AMPERAGE: 1000
WELDING MANIPULATOR	QTY:	1	TYPE XY 10' X 12'
	QTY:	3	TYPE XY 8" X 8"
	QTY:	1	TYPE XY 16' X 20'

OTHER TYPES OF WELDING EQUIPMENT EMPLOYED GMAW & GTAW

MACHINING DEPARTMENT

MACHINE & FABRICATING FACILITIES

EQUIPMENT LIST

MACHINE SHOP

SQ. BUILDING - FT. 35,000

CRANES

2 TON - 3

3 TON - 1

5 TON - 2

10 TON - 1

ASSEMBLY DEPARTMENT

QTY	TYPE	DESCRIPTION
1	WESTCO	600 TON HOIST TEST FIXTURE
1	STAR	U-BOLT BENDING MACHINE
1	STAR	500 TON HYDRAULIC WHEEL PRESS
1	STAR	100 TON WHEEL TEST STAND
1	ENERPAC	5 TON HYDRAULIC ARBOR PRESS
1	BUDD	BRAKE DYNAMOMETER
1	OSTER	PIPE THREADING MACHINE 2" CAPACITY
1		75 HP TESTING MOTOR
2	RODGERS	400 TON HORIZONTAL PRESS 7' X 30'
1	QUEEN CITY	2 HP GRINDER

LATHES, BORING MACHINES, MILLS AND OTHER EQUIPMENT

VERTICAL LATHES

QTY	TYPE	DESCRIPTION
1	BULLARD	54" VERTICAL LATHES: 56" SWING, UNDER RAIL - 40"
1	VANGUARD	27" VERTICAL LATHE: 23" SWING, 8 POS. TURRET FANUC Oi-T CONTROL
1	VANGUARD	SLANT BED LATHE 39" SWING X 118" LONG 12 POS. TURRET FANUC Oi-T CONTROL

ENGINE LATHES

QTY	TYPE	DESCRIPTION
1	LODGE & SHIPLEY	#50 PROFITURN, 50" X 114", CNC, 7" HOLE THROUGH COLLET, 50" SWING, 24" CHUCK
1	WILLIS	70" X 120", CNC 9" SPINDLE BORE ANILAM 4200T CONTROL, 50 HP AUTOBLOK, 40" HYDRAULIC CHUCK, 60" FACE PLATE WITH 4" JAWS
1	OKUMA	120" OC, 154" OW, 30,000# ENGINE LATHE (DRUM LATHE)
1	DO ALL	MOD 16 16" X 54" ENGINE LATHE
1	LODGE & SHIPLEY	#15/40 PROFITURN 15"X78" CENTERS CNC CONTROLLED UNIVERSAL LATHE

MILLING MACHINES (CNC)

QTY	TYPE	DESCRIPTION
1	VANGUARD	CNC PLANER TYPE HORIZ. MILL X 120", Y 79", Z 79" 22,000# WORK PIECE, 360° ROTARY TABLE, 40 POS. CHANGER F ANUC 18i – M CNC CONTROL
1	WILLIS	RTM 50-15, 15HP CNC VERTICAL MILL X 48", Y28", Z24" TRAVEL ANILAM 6000 CONTROL
1	HAAS	HIS RP 30HP CNC, HORIZONTAL MILL, TWIN PALLET X 24", T22", Z 20" HASS CONTROL

BORING MACHINES

QTY	TYPE	DESCRIPTION
1	VANGUARD	80" CNC VERT. BORING MILL 100" SWING, 80" TURNING HT., 22,000# WORK PIECE, 12 POS. CHANGER ATC, FANUC Oi-T CNC CONTROL
1	BETTS	100" BORING MILL: SWING - 100", UNDER RAIL - 80"
1	GIDDINGS & LEWIS	#350 HORIZONTAL, 5" BAR CROSS TRAVEL-122", HEIGHT-76"
1	GIDDINGS & LEWIS	RIGHT ANGLE HEADS FOR HORIZONTAL MILLS
1	BARNES	CENTERING MACHINE
1	YORK	PORTABLE LINE BORING MACHINE

DRILL PRESSES & TAPPERS

QTY	TYPE	DESCRIPTION
1	AMERICAN	RADIAL DRILL-11" DIA. COLUMN 4' ARM-50" FROM TABLE
1	CARLTON	RADIAL DRILL-18" DIA. COLUMN 7' ARM
1	FRIDEN	FLEXOWRITER FOR CUTTING TAPES
2	ATLAS	TABLE DRILL

KEYSEATERS, BROACHES, PLANERS AND SHAPERS

QTY	TYPE	DESCRIPTION
1	MITTS & MERRILL	#7 KEYSEATER
1	DC MORRISON	KEYSEATER MERRILL

GEAR GENERATORS AND HOBBERERS

2	SYKES	#5B HERRINGBONE GEAR GENERATOR, 61" OD, 22" FACE WIDTH, 2 D.P.
1	SYKES	#5H HERRINGBONE GEAR GENERATOR, 66" OD, 24" FACE WIDTH, 2 D.P.
1	LORENZ 1200	HERRINGBONE GEAR GENERATOR 69" OD, 18" FACE WIDTH
2	FARRELL SYKES	#2C HERRINGBONE GEAR GENERATOR 24" OD, 9" FACE WIDTH, 5 D.P.
2	SYKES	#3C HERRINGBONE GEAR GENERATOR 40" OD, 8" FACE WIDTH, 5 D.P.

TOOL ROOM GRINDERS AND FIXTURES

QTY	TYPE	DESCRIPTION
1	CINCINNATI	CUTTER & TOOL GRINDER #2
1	HAMMOND	MODEL 10HS GRINDER

1	ROYAL OAK	RADIAL RELIEF GRINDING FIXTURE
1	K.O. LEE	MODEL B-600 CUTTER GRINDER FOR SYKES CUTTER
1	BLK. DIAMOND	#2B DRILL GRINDER
1	OLIVER	DRILL POINTER - 3" CAP
1	DELTA	CARBIDE TOOL GRINDER
1	QUEEN CITY	FLOOR GRINDER
1	OPTIMA	UNIVERSAL DRILL POINTING MACHINE - 3/4" CAP

FABRICATING

QTY	TYPE	DESCRIPTION
1	ELECTRO ARC	25 TAP DISITEGRATOR
1	DOALL	C 4100A AUTOMATIC CUT OFF SAW 16" RND., 14" SQ.