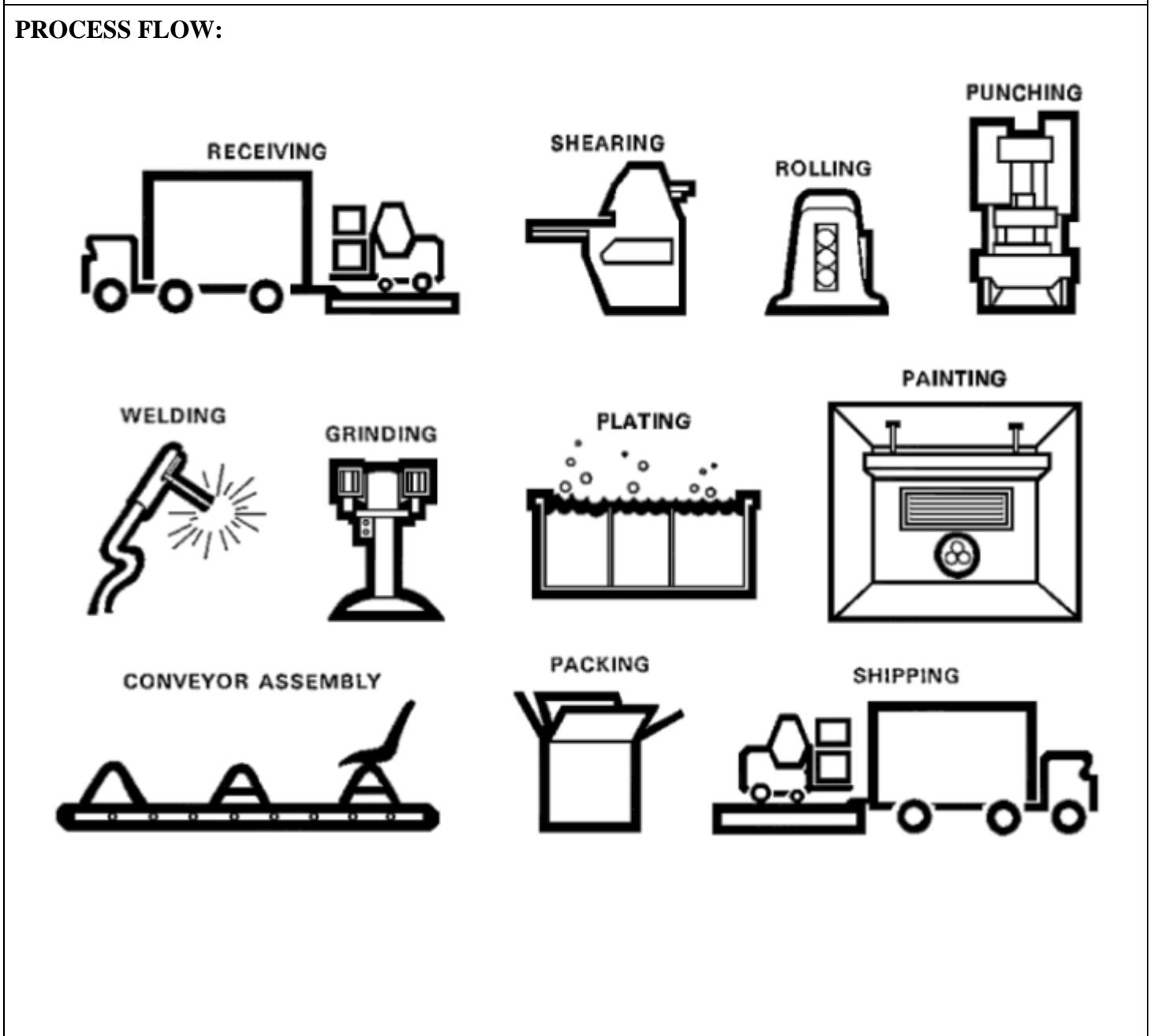



	NORTH CAROLINA DEPARTMENT OF LABOR	No. 25-3
	OSH DIVISION	Date: 10/2009
	OSHNC INDUSTRIAL DATA REPORT	Pages: 3

Industry: Furniture	Sub-Group: Metal Furniture
SIC: 2514	NAICS: 337121, 337124 and 337215

PROCESS DESCRIPTION: Raw materials include steel, dye castings, stamping, high pressure laminates, plastic molded parts, wood, fabric, nuts, bolts, screws, plating chemicals, painting and finishes. Metal is sheared to size, punched, notched, stamped, formed and rolled. Succeeding steps include welding (spot welding, arc welding and projection welding), sanding and/or grinding, dip tank plating, painting or spray painting, buffing and assembling. Packaging and shipping complete the process.



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Hazards Analysis


Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Machine room	Shears, punch presses, brakes, metal rollers	Finger and hand amputation and crushing	Receiving and shipping areas	Forklifts and vehicular accidents	Carbon monoxide and crushed limbs and body
Plating room	Plating chemicals and tanks	Exposure to toxic air contaminants	Throughout	Heavy materials Noise	Back, foot and toe injuries; strains and sprains Hearing loss
Grinding or sanding room	Sanders, grinders	Eye, face and body injuries from flying debris; inhalation of dust			
Welding shop	Spot and arc welders	Flash burns and welding burns; fume inhalation; welding fume fever			
Spray finishing and dip tank areas	Electrical, bonding and grounding, fire and explosion Chemicals	Burns and smoke inhalation Exposure to toxic air contaminants			

Key OSHNC Standards

Reference	29 CFR 1910 — General Industry Standards
ANSI B30.6	Overhead/Underhung hoists
NCGS 95-129	General duty clause - ergonomics
Subpart D	Walking and working surfaces
Subpart E	Exit Routes, Emergency Action Plans, and Fire Prevention Plans
Subpart I	Personal protective equipment
Subpart O	Machinery and machine guarding
Subpart Q	Welding, cutting and brazing
1910.94	Ventilation
1910.95	Occupational noise exposure

SIC: 2514

NAICS: 337121, 337124 and 337215

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1910.106	Flammable and combustible liquid handling and storage		
1910.107	Spray finishing operations using flammable and combustible materials		
1910.122 - 1910.126	Dipping and coating operations		
1910.146	Permit-required confined space entry		
1910.147	Control of hazardous energy (lockout/tagout)		
1910.151	Medical services and first aid (esp. eye wash and emergency shower stations)		
1910.176	Material handling – general requirements		
1910.178	Powered industrial trucks		
1910.1000	Air contaminants		
1910.1200	Hazard communication		
Inspection Analysis			
<p>The inspection should follow the process flow beginning where raw goods are received and passing into the machine room, paying particular attention to the shears, presses and other machinery that may require machine guarding or point of operation guarding. Eye protection may also be needed around these machines. Generally, the welding shop is where the inspector must also look for eye protection, welding screens, frayed cables, harmful fumes and possible point of operation guards on lock down type spot welders. The sanding and grinding department is another area where eye protection and guards on sanding belts and abrasive wheels may be needed. The plating room is the next area where various types of personal protective equipment are needed and where electrical requirements exist for hazardous locations (depending upon the plating materials). In the spray paint or dip tank painting area, fixtures, lights, receptacles and wiring must be approved for that location as well as in any adjacent flammable storage area. The inspection would normally terminate in the shipping area.</p>			
Other Pertinent Comments:			