

Acme Coke
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Chicago IL 60617



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Job Safety Analysis – Door Machine

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JOB SAFETY ANALYSIS <small>15-5808</small>		No. 3	
PLANT COKE		JOB OPERATION TITLE CLEANING DOORS	
DEPARTMENT OVENS		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB DOOR MACHINE OPERATOR	
SUPERVISOR W. LOFGREN			
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard hat 2. Safety glasses 3. Safety shoes 4. Respirator	5. Proper clothing 6. Safety face shields 7. Gauntlet type gloves 8.	1. Hot coke 2. Oven door 3. Falls 4. Oil	5. Hot coke guides 6. Heat from ovens 7. 8. 9. 10. 11. 12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Door removed for cleaning before oven pushed.	SB, CW.	Be aware of falling coke when door removed. Be sure no employees in area.	Wind blown particles. Heat from ovens.
2) Travel to end of battery.	SB, CB, CW.	View for clearance, employee equipment removed.	Hot door falling particle Loose bricks may fall.
3) With air chisel, clean door casting, sealing strip.	E, FB, FS, SA.	Safety shield, gloves, sleeves in use for falling particles. Clean lower door from Battery floor level top. Halt from top of door machine.	Injury from air chisel. Air fan weak hoses.
4) Travel to oven, set coke guides, push oven.	SB, CB, CW.	View for clearance before traveling.	Same as #2.
Place door on oven.	SE, CW.	Avoid moving oven door on jack as movement made to place door. Keep employees away. Check for employees, especially helper's position.	Heat from ovens, especially west wind blowing through oven.
FOREMAN DATE	SAFETY COORDINATOR	DATE	SUPERINTENDENT
one 9/2/75	T. L. Danko	9/30/75	9/28/75
		DATE	
		SIGNATURE AND TITLE OF PERSON MAKING JS	
		9/28/75 W. Lofgren, Over	

JOB SAFETY ANALYSIS
18-5808

No.

PLANT Chicago Coke	JOB OPERATION TITLE CLEANING JAMB
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB DOOR MACHINE OPERATOR
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. gloves	5. monogoggles	1.	9.
2. wristlets	6. safety glasses	2.	10.
3. face shield	7. respirator	3.	11.
4. helmet liner/snoot	8.	4.	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Spot up jamb cleaner	FS, FB CW	1. Move door machine south from south controller. Be certain no one in way. 1b. Check jamb cleaner for proper alignment. Use north controller	1. Pinch points
2. Engage hydraulic pump	CW	2. Start hydraulic pump.	
3. Engage jamb cleaner	SB CW CBY	3. Start jamb cleaner. Do not use bar to clean bottom of jamb while cleaner is operating.	3. Blowing sparks
4. Replace door		4. After jamb cleaner completes cycle move north and replace door. Use center controller.	
5. Clean up		5. Clean still plate & bench area.	

PROVED BY- GEN. FOREMAN DATE <i>B. J. [Signature]</i> 10-24-86	SAFETY COORINATOR <i>[Signature]</i>	DATE 10-24-86	SUPERVISOR <i>[Signature]</i>	DATE 10-24-86	SIGNATURE AND TITLE OF PERSON MAKING J.S.A. <i>[Signature]</i> Safety Engineer
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Cleaning Pusher Side Door (1989, J.C. Jefferson)

JOB SAFETY ANALYSIS
15-3808

No. 6

PLANT
CHICAGO COKE
DEPARTMENT
OVENS
SUPERVISOR
J.C. JEFFERSON

JOB OPERATION TITLE
CLEANING P/S. DOOR
POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB
PUSHERMAN
(#96 W. Murry)

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1.	5.	1. cleaning bars	9.
2.	6.	2. tools on platform	10.
3.	7.	3. carbon particles	11.
4.	8.	4. hot door	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARD
1. SPOT PUSHER	1. SB, SBY, CW	1. Sound warning bell to alert any one on P.S. bench.	
2. REMOVE DOOR	2. SB, CW, CW	2. Sound warning bell. Check immediate area to be sure it is safe to extend door extractors and retract same.	
3. WALK TO CLEANING PLATFORM	3. FS	3. Keep walkway clear of tools and other objects.	
4. CLEAN SEALING STRIP RETAINER CASTING	4. SA, FB, CW	4. Be alert when stepping up to platform, have face shield down. Secure good grip on cleaning bar. Have good stance to maintain balance.	4. Not fly face ing door. make cle fa
5. RETURN TO CAB		5. Be alert to step down from platform.	

Revise 6/6/95 J. Reed

APPROVED BY-GEN. FOREMAN DATE
P. BRIDGEMEN 4-10-89

SAFETY COORINATOR DATE
T. Zaludac 8/7/89

SUPERVISOR DATE
J.C. Jefferson 8/2/89

SIGNATURE AND TITLE
3-30-89 J.C. JEFFERSON

Observing Quench Car & Coke Guides During Push (1975, W. Lofgren)

JOB SAFETY ANALYSIS No. **6**
1E-5503

PLANT COKE		JOB OPERATION TITLE OBSERVING QUENCH CAR & COKE GUIDES DURING PUSH	
DEPARTMENT OVENS		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB DOOR MACHINE OPERATOR	
SUPERVISOR W. LOFGREN			

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat	5. Safety Face Shield	1. Falling Coke	9.
2. Proper Gloves	6. Proper Clothing	2. Hot Coke Guides	10.
3. Safety Glasses	7. Safety Shoes	3. Hot Particles	11.
4. Respirator	8.	4. Air Borne	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Quench car gates are closed	1. SB - CW - FB	1. Visual observance, quench car opr. to employees' in vicinity that could be struck by same.	1. Gates Opening 1. Car Movement
2. Quench car properly aligned at coke guides	2. CB - CW	2. Personnel on coke bench must refrain from safety railing contacts as quench car located close to cs bench level. Pinch points exist to - fingers - legs - body	2. Car Movement
3. Coke guides aligned on oven to be pushed and racked in	3. CBY - FS	3. Arms - hands - body away from coke guides when racked in.	3. Pinch Points
4. Coke guide buckstay clamps in position	4. CB	4. Door machine opr. must avoid contact of hot guides to observe clamps are locked	4. Pinch Points 4. Falls
5. Quench cars movement proper to accept level loads	5. SA - SB - FB	5. Employee must leave area where coke pushes into quench car. Extreme heat conditions movements along cs bench of employees are hazardous.	5. Air borne debris particles can burn
6. Push Ram entering Coke guides completing oven push	SA	6. Ram could strike coke guides & become disengaged, a threat to personnel in vicinity.	6. Serious injury possible if personnel struck.
7. Exit from coke	7. SA	7. Possible ram striking oven floor on entering oven. Could disengage guides. Door machine operator subject to injury.	7. Coupled with quench car movement danger to personnel
8. Coke guides retracted	8. SA - CB - FS	8. Avoid coke guide area when gates opening. Swinging gates could enmesh employees' clothing. Tag victim possibly causing entanglement in coke guide area.	8. Pinch Points 8. Burns to body

DATE: 3/10/75
SIGNATURE AND TITLE OF PERSON MAKING J.S.A.: W. Lofgren Over Foreman

JOB SAFETY ANALYSIS
(5-583)

No. 9

PLANT Chicago Coke	JOB OPERATION TITLE Removing Safety Bars from Problem Doors
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Door Machine Operator
SUPERVISOR H. Thomas	

REQUIRED AND OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY		
1. Hard Hat	5. Good Condition Clothing	1. Oven Door	5. Breeze	9.
2. Safety Glasses	6. FACE SHIELD	2. Bar	6.	10.
3. Hot Mill Gloves	7.	3. Heat	7.	11.
4. Safety Shoes	8.	4. Gas	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Spot Door Machine for taking door off.	SB, CBY, SA, CB	1. Make sure that all people are safely out of way.	
2. Set Door Extractor at door for removing Door.		2. Do not allow any unauthorized person on Door Machine.	
3. Set brakes on Door Machine.	CB, SB		
4. Pull switch for traction motor.			To prevent pinch points.
5. Remove Bar.			

DATE _____ SIGNATURE AND TITLE OF PERSON MAKING JSA
H. Thomas - Oven Foreman

Shimming Door Extractor, Problem Doors (1975, W. Lofgren)

JOB SAFETY ANALYSIS 18-5808 No. 7

PLANT Coke	JOB OPERATION TITLE Shimming Door Extractor, Problem Doors	
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Door Machine Operator	
SUPERVISOR W. Lofgren		

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
Hard Hat	5. Proper Clothing	1. Door Extractor	9. Hot Coke Guides
Gauntlet Gloves	6. Safety Face Shield	2. Falling debris	10.
Safety Shoes	7. Safety Glasses	3. Hot Coke	11.
Respirators	8.	4. Wooden Shims	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Retard door jack for shim addition.	CB, FB, FS.	1) With top latch or bottom engaged, remove extractor slightly enough to place 1/4" wooden shim to problem latch.	Falls. Oil on Floor. Falling Objects.
Engage door jack.	SA, CW.	2) Engage door extractor on latch and added shim will properly place latch on hook.	
Retrieve Shim.	CB, FB, FS.	3) Slightly remove door jack, retrieve shim for future use when necessary.	
Travel.	SB	4) Continue full swing of door jack to retarded position and travel to next oven to be pushed.	

DATE 9/27/75 SAFETY COORDINATOR T. I. Danko DATE 10/23/75 SUPERINTENDENT B. A. Hagan DATE 9/27/75

JOB SAFETY ANALYSIS
15-3808

No. 4

PLANT COKE	JOB OPERATION TITLE REMOVING DOORS
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB DOOR MACHINE OPERATOR
SUPERVISOR WM. LOFGREN	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY		
1. Hard Hat	5. Proper Clothing	1.	5.	9.
2. Safety Glasses	6. Safety Face Shield	2.	6.	10.
3. Safety Shoes	7.	3.	7.	11.
4. Respirator	8.	4.	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Travel to line up door extractor for oven door removal.	1. SB - CB	1. When traveling with door machine be aware of employee in bench area. Keep bench area free of tools & equipment.	1. Steam conditions nitetime visibility limited
2. Start hydraulic pump motor	2. CB - CW	Check & be sure safety guards are in place on motor & pump. Keep employees from pump equipment area while in service.	2. Footing - Falls Pinch Points
3. Start manual controls for door extractor application.	3. CBY - CB	3. Be certain employees not in immediate area. Watch rotation of door extractor to prevent striking objects. Watch footing and check constantly for any oil leaks.	3. Pinch Points
4. With door extractor properly in place, remove door.	4. SB - CBY - CB - E	4. Observe door removal movement to avoid contact. Hot brick lining could cause burns if contacted. Be alert to possible falling brick from door. Falling coke a hazard when door removed. Exposure to coke temperature could cause burns.	4. Coke Debris - Hot Sparks

APPROVED BY - GEN. FOREMAN DATE	SAFETY COORDINATOR	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING JSA
	<i>W. Lofgren</i>	<i>W. Lofgren</i>	4/1/75	Wm. Lofgren, Foreman D. P. Brassel, Door Machine Operator

JOB SAFETY ANALYSIS <small>15-5808</small>		No. 5	
PLANT COKE		JOB OPERATION TITLE RACKING IN & RETRACTING COKE GUIDES	
DEPARTMENT OVENS		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB DOOR MACHINE OPERATOR	
SUPERVISOR WM. LOFGREN			
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Hat 2. Safety Glasses 3. Safety Shoes 4. Respirator	5. Proper Clothing 6. Safety Face Shield 7. 8.	1. Coke Guide Doors 2. Door Jack 3. Coke Guides 4.	5. 6. 7. 8. 9. 10. 11. 12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Start hydraulic pump motor for coke guide operation.	1. CB - CW	1. Be sure safety guards are in place on motor & pump. Keep employees' from pump equipment.	1. Oil Leaks - Falls - Footing
2. While observing, engage manual controls to rack in coke guides.	2. SB - CBY - SA	2. Coke guide doors will close. Be sure employees are not entering. Coke guide doors will move in large arc, avoid contact	2. Hot Coke Guides
3. Observe that guides are in proper position with hooks clamped on buckstay	3. E - CBY - CB	3. Improper position could disengage guides & cause coke spillage presenting hazardous conditions.	
4. After oven pushed be sure Pusher Ram has entered oven chamber before retracting guides.	4. SB	4. Premature disengagement of coke guides would leave Pusher Ram entangled in guides. Hazardous to employee, damaging to equipment.	4. Coke Spillage - Burns from Guides
5. With guides completely retracted, travel & place door on oven.	5. SB - CB	5. See that guides are retracted to fully opened position for positive travel control operation. Check bench area for employees & equipment.	5. Guides striking Oven Doors
ED BY GEN. FOR MAN DATE	SAFETY COORDINATOR	AGENT DATE	SIGNATURE AND TITLE OF PERSON MAKING JS
	<i>W. Lofgren</i>	A. Nagan 4/1/75	Wm. Lofgren Over Foreman

JOB SAFETY ANALYSIS
19-2800

No. 22

PLANT COKE	JOB OPERATION TITLE RACKING IN AND RETRACTING COKE GUIDES
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB
SUPERVISOR C. HAMLIN	DOOR MACHINE OPERATOR

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. Safety Hat	5. Safety Shield	1. Coke Guide Man Doors	9.
2. Safety Glasses (Mono Goggles)	6. Respirator	2. Coke Guides	10.
3. Safety Shoes	7. Gloves	3. Hot Coke	11.
4. Protective Clothing	8.	4.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARD
1. Spot Door Machine properly.	1. SA, FS	1. With use of spotting arrow, spot Door Machine properly with buckstay.	1. Be alert for points, prop balance.
2. Start hydraulic pump for coke guide operation.		2. Press hydraulic pump motor switch to ON position.	2. Loose switch
3. While observing, engage guide control to rack coke guides in.	3. SB, CBY, SA, E	3. Before racking guides in, observe to make sure no employee is in area of guides, then engage hydraulic control lever for guides.	3. Be alert for points, coke, hot proper b
4. Observe that guides are in proper position with safety hooks behind buckstay.	4. CB, CBY, E	4. After guides are racked in, check that safety hooks are behind buckstays.	4. Be alert for coke, hot proper b
5. After oven is pushed, be sure Pusher Ram has entered oven before starting pump and retract guides.	5. SB, E	5. Premature disengagement of guides may result in damage to guides, coke side frame, excess oven spillage, and injury to employee.	5. Be alert for coke, wind hot sparks empty oven proper balanc

APPROVED BY: GEN. FOREMAN DATE: 3-13-89 SAFETY COORDINATOR: T. Zaludac DATE: 5/1/89 SUPERINTENDENT: [Signature] DATE: 4/25/89 SIGNATURE AND TITLE OF PERSON MAKING: C. Hamlin, Top Foreman

JOB SAFETY ANALYSIS <small>15-9309</small>		No. 8	
PLANT Coke DEPARTMENT		JOB OPERATION TITLE Signaling Pusherman over Femco	
SUPERVISOR W. Lofgren		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Door Machine Operator	
REQUIRED AND OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Hard Hat 2. Gloves, Mill 3. Safety Shoes 4. Respirators	5. Proper Clothing 6. Safety Face Shield 7. Safety Glasses 8.	1. Hot Coke 2. Guides may open, striking employee 3. Coke guides may topple 4.	5. Hot airborne particles 6. falling bricks 7. from doors. 8. Contact with 9. falling bricks 10. from doors. 11. Contact with 12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Door removed	1. SB - CW	1. Aware of employees in vicinity when door swings to retracted position.	1. Falling brick Hot coke debris - contact with
2. Traction, line up to push oven.	2. CB - SA	2. Check for employees & equipment before moving door machine	2. Struck by moving door machine.
3. Rack in guides.	3. CB	3. Again check for employees or equipment that may be caught when packing guides into oven for push.	3. Hot coke guides - burns.
4. Place crossbattering elect. Interlock in operation.	4. E	4. Electrical failure to equipment, false starts, faulty wiring, elec. shock.	4. Elect. burns.
5. Contact pusherman verbally, lined up to push oven.	5. E	5. False push could occur, causing injury if verbal contact not part of safe push.	5. Falling
6. Push oven, disengage elect. Interlock when ram received into oven	6. E - CW	6. Hot coke particles - dust - expose employee to burns. Increased wind (storms) thru oven a hazard, burns & exposure. Possible elct. failure to Interlock, verbal contact that push is completed.	6. Coke guide disengagement
7. Traction, place door on oven.	7. CB - SA	7. Employees' position & equipment once again must be noted before traction to place door on oven.	7. Equipment damage.
ID BY - GEN. FOREMAN W. Lofgren	SAFETY COORDINATOR T. Danko	DATE 7-8-75	SUPERINTENDENT R. Nazan
DATE 7-3-75	DATE 7-7-75	DATE 6-29-75	SIGNATURE AND TITLE OF PERSON MAKING JSA W. Lofgren, Oven Foreman

JOB SAFETY ANALYSIS
15-5908

No. **75**

PLANT Chicago Coke Plant	JOB OPERATION TITLE Traveling with Door Machine
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Door Machine Operators
SUPERVISOR C. Kozar	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Hard Hat	5. Respirator	1. Hot coke	9.
2. Mill Gloves	6. Proper Clothing	2. Air leaks	10.
3. Safety Shoes	7. Safety Face Shield	3. Heat from Ovens	11.
4. Safety Glasses	8.	4. Heat from Door Shield	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Release door machine not brake at center control.	1. CB - CW	1. a) Make sure travel control is in neutral. 1. b) Be aware of any people working on Ovens or tracks you travel.	1. a) Hot coke. Oil leaks. 1. b) Objects left in center of rails. (ba hoses, etc)
2. Go to controls for direction of travel. North or South end.	2. CBY - SA - FB	2. Before moving door machine check for any objects that may damage or de-rail door machine.	2. People working on Ovens in either directi
3. Travel to destination you desire. Always be prepared to stop.	3. CB - CW	3. a) Start travel slowly. 3. b) Make sure signal horn is working. 3. c) Always have a clear view of direction you are traveling. 3. d) If not stop, don't move machine. Contact Foreman immediately.	3. a) Be prepared for people coming out of doorway at center batteries.

APPROVED BY: <i>[Signature]</i>	DATE: 5-30-78	SAFETY ROOM IN CHARGE: <i>[Signature]</i>	DATE: 5-9-78	SUPERVISOR: <i>[Signature]</i>	SIGNATURE AND TITLE OF PERSON MAKING JSA: C. Kozar Oven Foreman
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