

Acme Coke  
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Job Safety Analysis – Pusher

*Recovered from site on July 4 2020 and Dec 25 2020*

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REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY			
1. Hard hat	5. Respirator	1. Digger tool	5. Hot coke	9.	
2. Safety glasses	6. Good gloves	2. Wrenches	6. Debris on bench	10.	
3. Safety shoes	7. Proper clothing	3. Hot ram	7. Water hose	11.	
4. Face shield	8.	4. Pusher	8.	12.	
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE		REMAINING HAZARDS	
1) Place sticker digger tool on ram head.	FS, CB, SB.	Run ram out to within one foot of digger tool. Align holes in ram with lugs on digger tool and bring ram up to tool. Secure with bolt and pin provided.		Ram is hot if pusher has been in service.	
2) Proceed with pusher to stuck oven.	SB, FS.	Before moving pusher to destination, strike floor warning bell to warn fellow workers that pusher will be moving.			
3) Commence digging coke from oven.	E, FS.	Run ram into oven up to face of coke - not hitting too hard. Retract ram until digger tool bottom opens and drops coke on pusher side bench. Let coke pile just to below sill level. Move pusher away, quench coke with water hose, and shovel coke on to pusher pad below.		Watch for exposure to steam emitting from quenched coke.	
4) Push out remainder of oven.	SB, E.	Set up door machine and quench car. Push remainder of oven with pusher that has digger tool. Stop ram before tool enters coke guide. Re-			
(OVER)					
APPROVED BY GEN. FOREMAN	DATE	SAFETY COGRINATOR	DATE	SUPERINTENDENT	DATE
				R. C. Rankin	4-30-76
				SIGNATURE AND TITLE OF PERSON MAKING	
				John S. Caturano	

Latching Door When They Hang Up (1985, unsigned)

<b>JOB SAFETY ANALYSIS</b> <small>15-2606</small>		No. _____	PLANT Chicago Coke DEPARTMENT Owens SUPERVISOR		JOB OPERATION TITLE LATCHING DOOR WHEN THEY HANG UP POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB PUSHERMAN	
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT			OBJECTS ON JOB CAPABLE OF INFLECTING INJURY			
1. safety helmet 2. safety shoes 3. safety glasses 4. wristlets 5. respirator 6. snoot 7. faceshield 8. gloves			1. button 2. steel bar 3. ram 4. extractor 5. 6. 7. 8. 9. 10. 11. 12.			
SEQUENCE OF BASIC JOB STEPS		POTENTIAL HAZARDS		RECOMMENDED SAFE JOB PROCEDURE		REMAINING HAZARDS
1. When both latches fail to lock				1a. A bar is placed across door between buckstays top and bottom 1b. Make sure bars are long enough to fit well behind buckstays.		1a. Tripping hazards 1b. Pinch points
2. Place button latch				2a. Place button securely on latch. Remove hand from button before engaging ram.		
3. Use ram to lock latch				3a. Sound footbell, run ram out to lock latch. 3b. Latch is pulled down with bar or hammer. 3c. Operator takes instructions from door cleaner only.		
APPROVED BY- GEN. FOREMAN DATE			SAFETY COORINATOR			DATE
P. Bridgeman   9-5-85						9/5/85
SUPERINTE...				SIGNATURE AND TITLE OF PERSON MAKING J.S.A.		
Moylla / RAH						7

**JOB SAFETY ANALYSIS** No. 10  
15-3809

PLANT  
**COKE**  
DEPARTMENT  
**OVENS**  
SUPERVISOR  
**W. LOFGREN**

JOB OPERATION TITLE  
**OVEN LEVELLING**  
POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB  
**PUSHERMAN**

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety hard hat	5. Proper clothing	1. Fires	5. Stairs (falls)
2. Gauntlet gloves	6. Safety face shield	2. Coke debris	6. Bars
3. Metatarsal safety shoes		3. Emissions	7. Oil on floor
4. Respirator	8.	4. Loose grates	8. Housekeeping
			9.
			10.
			11.
			12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Line pusher on prescribed oven.	SB, CBY, CW.	Line pusher with leveller bar on prescribed oven.	Steam. Ice, snow.
2) Open chuck door.	E, CW.	With approximately full charge in oven, using long bar, open chuck door.	Falls. Pinch points.
3) Engage leveller bar, level oven, and retract.	CBY, SA, CW, CB.	Engage leveller bar through open chuck door for entire oven length and retract. Also, complete coal charged in oven.	Illumination. Emissions.
4) Close chuck door.	CW, CBY.	Using bar, engage chuck door and latch close.	Hot particles. Pinch points.

APPROVED BY - GEN. FOREMAN DATE: SAFETY COORDINATOR DATE: SUPERINTENDENT: **R.C. Rankin** DATE: **4/26/76** SIGNATURE AND TITLE OF PERSON MAKING JSA: **W. Lofgren, Oven Foreman**

JOB SAFETY ANALYSIS No. 12-1808

PLANT <b>Chicago Coke</b>	JOB OPERATION TITLE <b>PUSHER TRAVELING</b>
DEPARTMENT <b>Ovens</b>	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB <b>PUSHERMAN</b>
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. safety hat	5. proper clothing	1. hot ram	9.
2. safety glasses	6. safety face shield	2. flames chuck door	10.
3. safety shoes	7. gloves	3. hot tools	11.
4. respirators	8.	4. hot coke debris	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Climb steps to pusher cab.	FB - FS	1. Keep all tools, equipment from stairway for safe access.	1. Hot ram, coke debris broken stairs.
2. Energize safety switch for traction motor	CB - E	2a. Prior to traveling, check position of door cleaner. 2b. Visually check track & bench for employees and mobile equipment.	2. Possible malfunction of brakes or electrical switches.
3. With controller lever energized, travel motor to move pusher.	SB - CW - CB	3a. Sound foot operated bell alarm then travel slowly in desired direction.	3. Wet track, snow on tracks. Brake failure. Poor visibility. Broken windows.
4. Center controller lever. Apply foot brake & stop pusher.	SB - CW - CB	4. Observe bench & track level for fellow employees.	4. Smoke emissions. Rain. Control board. Electrical exposure.

APPROVED BY - GEN. FOREMAN DATE <i>P. Br...</i> 8/22/84	SAFETY COORDINATOR <i>Richard Woods</i>	DATE 9/1/84	SUPERVISOR <i>[Signature]</i>	DATE 9/4/84	SIGNATURE AND TITLE OF PERSON MAKING J... <i>C. Kozar, Ovens Foreman</i>
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**JOB SAFETY ANALYSIS**  
15-3808

No. \_\_\_\_\_

PLANT <b>Chicago - Coke</b>	JOB OPERATION TITLE <b>PUSHING AND CHARGING OVENS ( NORMAL OPERATIONS )</b>
DEPARTMENT <b>Ovens</b>	POSITION TITLE OF MAN (MEN) WHO DOES (DOES) THE JOB <b>Pusherman</b>
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard hat	5. Wristlets and gloves	1. Fire	5. Moving machinery
2. Safety glasses	6. Flame retardant clothing	2. Heat	6. _____
3. Face shield	7. _____	3. Falling coke	7. _____
4. <del>Sneed</del>	8. _____	4. Sharp bars	8. _____
9. _____			
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Check pushing schedule		Check for possible ovens out of sequence.	
2. Check tools		Dull or defective tools should be removed.	
3. Check pusher machine for proper operation.		Contact supervisor if machine is not operating properly.	
4. Travel to first scheduled oven.	SB, SA, CW, CBY	Signal pusher side door cleaner and people on bench before engaging pusher machine travel. Pusher machine has a mechanical bell that must be sounded prior to movement.	Pusher & cleaner to be in contact with each other at all times in order to avoid injury to cleaner or others.
5. Spot pusher of first oven scheduled to push.			
6. Contact larrycar and lidman to ensure that oven has been dampered off	Exposure to fire.	By using femco to establish contact with larrycar operator or lidman pusherman will determine if oven has been dampered off.	If oven door is open before oven dampered off flames will come out of door.
7. Energize hydraulec pump.			
8. Signal door cleaner, remove door when cleaner is clear.	SB, CBY, SA, CW, CB, E	Positive contact with cleaner must be made before door is removed. Door must be brought out of oven and stopped approx. 1 foot thus allowing coke to fall safely out of oven & door plug. When coke stopped falling & fire	Hot coke from oven may injure cleaner.

MAN DATE <i>1/12/82</i>	SAFETY COORINATOR	DATE	SUPERVISOR <i>D. L. [Signature]</i>	DATE <i>1/12/82</i>	SIGNATURE AND TITLE OF PERSON
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Pushing Ovens, Especially Stickers (1975, J. Caturano)

**JOB SAFETY ANALYSIS** 16-1806 No. 5

PLANT: **Coke** JOB OPERATION TITLE: **Pushing ovens, especially stickers.**

DEPARTMENT: **Oven** POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB: **Pusherman**

SUPERVISOR: **J. Caturano**

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat.	5. Respirator	1. Heat from oven	5. Top many men
2. Safety Shoes.	6. Proper Clothing	2. & hot ram	6. shoveling.
3. Safety Glasses	7. Good Gloves	3. Loose coke	7.
4. Face Shield	8.	4. Shovels lying around <sup>a</sup>	8.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Spot up on oven.	1. SB - CW	1. Watch for men on bench when traveling to spot.	
2. Remove door.	2. SB - CB	2. Make sure area is clear of men before removing door.	May remove wrong door.
3. Push oven.	3. SB	3. Strike foot warning bell before throwing ram control.	
4. Retract ram.	4. SB - CW	4. Keep body & hands away from hot ram.	
5. Sticker digger on pusher ram to dig stuck oven.	5. SB - CW - E	5. Coke is extracted & dumped on bench from bottom of digger. Men on bench stay away from hot coke until it is quenched. Then shoveled off bench. Excessive heat from hot coke, & steam from quenched coke.	Tripping on loose coke or equipment lying on bench.

BY: GEN. FOREMAN DATE: **6-25-75** SAFETY COORDINATOR: **T. Danko** DATE: **7-8-75** SUPERINTENDENT: **B. Nagan** DATE: **7-7-75** SIGNATURE AND TITLE OF PERSON MAKING J.S.A.: **J. Caturano, Oven Foreman**



Remove Oven Doors (1982, unsigned)

<b>JOB SAFETY ANALYSIS</b> 15-5808		<b>No.</b>		<b>PLANT</b> Chicago - Coke		<b>JOB OPERATION TITLE</b> REMOVE OVEN DOORS	
				<b>DEPARTMENT</b> Ovens		<b>POSITION TITLE OF MAN (MEN WHO DOES (DO) THE JOB</b> Pusherman	
				<b>SUPERVISOR</b>			
<b>REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT</b>				<b>OBJECTS ON JOB CAPABLE OF INFLICTING INJURY</b>			
1. Hard hat	5. Face shield	1. Fire	5.	9.			
2. Safety glasses	6. Wristlets	2. Heat	6.	10.			
3. Safety shoes	7. Snoots	3. Falling coke	7.	11.			
4. Gloves	8. Flame retardant clothing	4. Cleaning bar	8.	12.			
<b>SEQUENCE OF BASIC JOB STEPS</b>	<b>POTENTIAL HAZARDS</b>	<b>RECOMMENDED SAFE JOB PROCEDURE</b>		<b>REMAINING HAZARDS</b>			
1. Spots up on proper oven	E, FS, SA	Observe fellow employees & their location in the work area.		Make sure no one enters the area.			
2. Activate door controls	SA, E	Ring foot bell to alert people in the area of activity on pusher.		Watch wind direction and velocity.			
3. Remove door	E	Start to back door off oven. Stop door at one foot out of oven. Allow hot coke and fire to stop before swinging door around.		Fire, falling coke, sparks.			
<b>APPROVED BY - GEN. FOREMAN</b>	<b>DATE</b>	<b>SAFETY COORDINATOR</b>	<b>DATE</b>	<b>SIGNATURE AND TITLE OF PERSON MAKING J.S.A.</b>			
<i>[Signature]</i>	11/14/82			<i>[Signature]</i> 11-22-82			

Removing and Replacing Oven Doors (1985, unsigned)

**JOB SAFETY ANALYSIS** No. 18-2508

PLANT <b>Chicago Coke</b>	JOB OPERATION TITLE <b>REMOVING AND REPLACING PROBLEM DOORS</b>
DEPARTMENT <b>Ovens</b>	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB <b>Pusherman</b>
SUPERVISOR	

  

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. face shield	5. respirator	1. door slack	5. pinch bar
2. wristlets	6. safety helmet	2. heat	6. hammer
3. snoot	7. safety shoes	3. falling coke	7.
4. gloves	8. safety glasses	4. button	8.
			9.
			10.
			11.
			12.

  

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Travel to spot up on oven		1a. Sound foot bell alarm before moving machine. 1b. When moving Pusher, visibility is poor-so be aware of employees on bench	
2. Start hydraulic pump & activate door jack		2a. Sound foot bell alarm before activating door jack. 2b. Be aware of fellow employees working in the area.	
3. Lock latch on door		3a. Sound foot bell alarm before moving ram. 3b. Place button on latch and push in ram. 3c. Push latch down with bar or hammer.	

  

APPROVED BY - GEN. FOREMAN DATE <i>P. Bridgman</i>   9-5-85	SAFETY COORDINATOR _____	DATE _____	SUPERINTENDENT <i>[Signature]</i>   <i>1/2/85</i>	DATE _____	SIGNATURE AND TITLE OF PERSON MAKING J.S.A. _____
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JOB SAFETY ANALYSIS  
18-5822

No.

PLANT  
COKE  
DEPARTMENT  
OVEN  
SUPERVISOR

J. CATURANO

JOB OPERATION TITLE  
RETRACTING RAM WITH DAKE ENGINE  
POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB  
PUSHERMAN - PUSHER SIDE CLEANER LEADER

REQUIRED AND OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. Hard hat	5. Safety shoes	1. Air hose	9.
2. Safety glasses	6. Good gloves	2. Debris on bench	10.
3. Face shield	7. Good work clothes	3. Debris on catwalk	11.
4. Respirator	8.	4. Cover over hose reel	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Pull hose from reel and connect to nearest air outlet provided for Dake Engine.	SB, FB, FS.	When pulling hose, watch your footing to prevent falling. Watch so cover over hose reel does not drop when starting to pull hose.	Debris on floor. Tripping hazard.
2) Loosen brake on ram drive motor.	FB, SB.	Turn brake "wheel" until brake drum will move freely by hand. Secure footing to prevent falling.	Pinch point. Watch fingers. Don't get caught between brake wheel and brake.
3) Engage clutch to Dake Engine.	FB, FS.	Pull clutch handle to west to engage. Again - sure footing to prevent falling.	
4) Turn on air valve to retract ram.	FS.	Turn air valve on to start Dake Engine and ram will retract. Turn face away from valve when opening.	Hose and coke debris on bench floor. Tripping hazard.

APPROVED BY - SEN. FOREMAN DATE

SAFETY COORDINATOR

DATE

SUPERINTENDENT

DATE

SIGNATURE AND TITLE OF PERSON MAKING J.S.A.

R.C. Bank

5/15/76

John S. Caturano

Two Pusher Operation (1985, C. Kozar)

**JOB SAFETY ANALYSIS** No. 18-8608

PLANT <b>Coke Plant</b>	JOB OPERATION TITLE <b>Two Pusher Operation</b>
DEPARTMENT <b>Ovens</b>	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB <b>Pusherman</b>
SUPERVISOR <b>C. R. Kozar</b>	

**REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT**

1. Hard Hat	5. Snoot
2. Gloves	6. Wristlets
3. Safety Shoes	7. Face Shield
4. Safety Glasses	8. Respirator

**OBJECTS ON JOB CAPABLE OF INFLICTING INJURY\***

1. Gas	5. Hot Coke & Sparks	9.
2. Fire	6. Chuckdoor	10.
3. Chipping Bar	7.	11.
4. Ram	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Make sure oven personnel are informed of 2 pushers in service.	SB, SA, CB, FB, FS, E.	1) Contact other pusherman to be sure he is aware of another pusher in service.	
2. Coordinate your activities so each pusherman is aware of others movement.	SB, SA, CB, FB, FS, E.	2) Communicate by use of Femco.	
3. Always be aware of people on the bench level, also observe pusher tracks each time you travel.		3) Look before you move your machine. Give signal with foot bell for door jack movement.	

APPROVED BY- GEN. FOREMAN DATE: **[Signature]** 9-24-85 SAFETY COORDINATOR: **[Signature]** DATE: 9-24-85 SUPERINTENDENT: **[Signature]** DATE: 9-24-85 SIGNATURE AND TITLE OF PERSON MAKING JS: **C. Kozar (PA)**