

Acme Coke
11236 S. Torrence Ave.
Chicago IL 60617



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Job Safety Analysis – Larry Car

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JOB SAFETY ANALYSIS		No.	PLANT	JOB OPERATION TITLE		
15-5808			Chicago Coke	CHARGING BIN PLUGGED WITH COAL		
			DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB LARRY CAR OPERATOR		
AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT			OBJECTS ON JOB CAPABLE OF INFLECTING INJURY			
1. hard hat	5. respirator	1. foreign body	5. tripping hazards	9.		
2. gloves	6. safety shoes	2. air hose	6.	10.		
3. safety glasses	7. wristlets	3. lance	7.	11.		
4. face shield	8. snoots	4. hot rails	8.	12.		
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS			
1. Inform foreman of problem.						
2. Check brakes on larry car bin gate.			2. Loose brake allows gate to close.			
3. Spot up larry car.		3. Visually check to see that the bin gate opener is center with dog on the bin gate.	3. Dog on bin gate may slip allowing gate to close.			
4. Open bin.						
5. Set up air lance & hose.		5. Secure all fittings with a piece of wire.	5. All fittings may come apart. Loose hose whipping around.			
6. Insert air lance into porthole & turn on the air.		6a. On the west hopper work off the north cab of the larry car. 6b. On the center hopper, climb up on the cast hopper ladder & onto the center hopper, work off the lip of the hopper. 6c. On the east hopper work off the rails for the scale platform.				
7. With the air on use lance to rod out coal.		7. When coal breaks loose, shut off air & remove lance.	6. Proper footing tripping hazards.			
8. Make sure porthole cap is returned to it's proper position.						
APPROVED BY - GEN. FOREMAN	DATE	SAFETY COORINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING J.S.A.
	10-18-84	Bob Lamm	10/18/84	[Signature]	10/18/84	A. Arroyo Jr.

Charging Bin Plugged with Coal (1989, C. Hamlin)

JOB SAFETY ANALYSIS No. 29
15-5809

PLANT
Chicago Coke Plant
DEPARTMENT
Ovens
SUPERVISOR

JOB OPERATION TITLE
CHARGING BINS PLUGGED WITH COAL
POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB
Larryman (Larry Car Operator) and Spellman

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat	5. Respirator	1. Foreign Body	5. Tripping Hazard
2. Gloves	6. Safety Shoes	2. Air Hose	6. Moving Equipment
3. Safety Glasses	7. Wristlets	3. Lance	7. Falling/Slipping
4. Face Shield	8. Snoods	4. Hot Rails	8. Sledge Hammer
9. Bars			
			10. Laser
			11.
			12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Inform foreman of problem.			
2. Check larrycar.		2. Check brakes (manual & electrical) limits, bin gate opener, lighting, laser.	2. Loose bin gate
3. Spot up larrycar using laser spotter.		3. Visually check to see that the bin gate opener is centered with dog on bin gate.	3. Dog on slip a gate t
4. Set mechanical brake.		4. Make sure brake is functioning properly. Notify foreman if not.	4. Larry move gate s sudden coal and wind mov while l
5. Lock out switch.		5. Pull power switch, install lock on switch.	
6. Check both north wheels of larry car.		6. Make sure chocks are properly positined.	6. Same as
7. Open bin gate.			
8. Set up lance and air hose.		8. make sure all fittings properly secured.	8. Look all

APPROVED BY GEN. FOREMAN DATE: *J. Rogener* 7-12-89
SAFETY COORDINATOR: *T. Zambalar* DATE: 7/12/89
SUPERINTENDENT: *[Signature]* DATE: _____
SIGNATURE AND TITLE: *C. Hamlin*

Charging Oven Out of Step (1989, E. Brown)

JOB SAFETY ANALYSIS
15-58008

No. 29

PLANT CHICAGO	JOB OPERATION TITLE CHARGING OVEN OUT OF STEP - ABNORMAL CHARGING PROCEDURE
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB LARRYMAN - #1378 C. OWENS
SUPERVISOR E. BROWN	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY		
1. Hard Hat	5. Safety Shoes	1. Cleaning Bar	5. Fire	9. Soup Bucket
2. Safety Glasses	6. Gloves/Wristlets	2. Uptake Cap	6. Steam Lines	10. Soup Dipper
3. Face Shield	7. Fire Retardant clothing	3. Damper	7. Hot Carbon	11. Tripping Hazards
4. Respirator	8. Snoot & Helmet Liner	4. Steam	8. Damper	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS	
Abnormal charging procedure				
Oven out of step				
1. Personally notify Larryman which out of step oven is to be charged.	SB, CBY, SA, CW, FB, FS, E	Follow procedure for normal charging. Be alert of the whereabouts of lidmen and other co-workers who are present on the battery. Use the buddy system. Always work together and watch out for each other	1. Lose exhaust 2. Lose steam 3. Oven plug off	

APPROVED BY- GEN. FOREMAN DATE Bridgemen 2/25/89	SAFETY COORDINATOR T. Zalmalae	DATE 5/1/89	SUPERVISOR E. Brown	DATE 4/25/89	SIGNATURE AND TITLE OF PERSON MAKING ANALYSIS E. Brown - Oven Foreman
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JOB SAFETY ANALYSIS No. 30
15-5808

PLANT CHICAGO	JOB OPERATION TITLE CHARGING TO THE ATMOSPHERE OR CHARGING OVENS OFF THE MAIN
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB TOP FOREMAN, LARRY CAR OPERATOR AND TIDMAN
SUPERVISOR G. Downs	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY		
1. Safety shoes	5. Snood	1. Flames	5. Cleaning bar	9.
2. Safety hat	6. Hat liner (cover ears)	2. Hot surfaces	6. Radiant heat	10.
3. Safety glasses	7. Face shield	3. Larry Car	7.	11.
4. Wristlets	8. Gloves & Fire Proof cloths	Pusher	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Spot Larry Car on proper spot	1. SA, FS, E	1. (A) When moving Larry Car make sure you have good visibility and everyone is in the clear. (B) Set mechanical parking brake. (C) Lower all tines and sleeves. (D) DO NOT put steam into oven, leave oven dampered off the main. (E) Make sure no flames are coming out of uptake due to improper seal of pan or loose coal falling off Larry Car into oven. With shield in place cautiously check the uptake.	1. Poor visibility, loss of exhauster, rainy weather and wet conditions.
2. Clean Cap & Seat	2. CBY, SA, CW, CB, FB, FS, E.	2. (A) With proper length chipping bar, clean riser cap and seat. (B) Be prepared to move quickly, watch your footing. (C) Confirm that both Pusher side and Coke side doors have been replaced. (D) Close the riser cap	2. Loss of exhauster. Flame or radi heat, hot surfaces.
			OVER

APPROVED BY: GEN. FOREMAN P. Bridgeman	DATE 10-18-93	SAFETY COORDINATOR T.A. Zickler	DATE 10/25/93	SUPERINTENDENT L. Payne	DATE 10-25-93	SIGNATURE AND TITLE OF PERSON MAKING JSA G. Downs Ovens
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JOB SAFETY ANALYSIS
18-5008

No.

PLANT Coke	JOB OPERATION TITLE Uptake and gooseneck inspection before charging.
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Larry Man
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat	5. Respirator	1. Gooseneck Bar	5. Trowell
2. Safety Glasses	6. Hot Mill Gloves	2. Flames	6.
3. Safety Shoes	7.	3. Steamlines	7.
4. Face Shield	8.	4. Platform	8.
			9.
			10.
			11.
			12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Close Standpipe cap.	FB, E, SB, CW, FS.	Using gooseneck bar, pull cap closed. Face Shield in place. Watch your footing to prevent falling.	Tools on platform
2. Turn on steam	CW, E, CBY, FB, FS.	Stand back, sure footing, and turn steam on with gooseneck bar.	Steam line may be faulty and ruptured
3. Place oven on main. Open damper.	FB, FS, SA.	Again, sure footing and push damper open with bar.	
4. Raise standpipe cap and inspect gooseneck and uptake.	FB, E.	Face shield in place. Place one foot on standpipe and leave other foot on platform, and check uptake. Stand back on platform and check gooseneck.	Loss of suction. By-products would cause a flame and gas hazard.
5. Clean area around lip of raiser cap seat.	FB, E	Standing on platform, use a sharp wide blade.	All of the above
6. Seal up raiser cap against leaks.	FB, E	Standing on platform	Fire, steam

APPROVED BY-GEN. FOREMAN	DATE	SAFETY COORDINATOR	DATE	SUPERVISOR	DATE	SIGNATURE AND TITLE OF PERSON MAKING JOB
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JOB SAFETY ANALYSIS No. 15-1808

PLANT Coke Plant	JOB OPERATION TITLE Lancing Out Larrycar Hopper with Problem Coal
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Larrycar Operator & Lidman
SUPERVISOR A. Arroyo	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hats	5. Respirator	1. Foreign Body (Coal)	5. Tripping Hazards
2. Gloves	6. Safety Shoes	2. Air Hose	6.
3. Safety Glasses	7. Wristlets	3. Lance	7.
4. Face Shield	8. Snoots	4. Hot Rails	8.
			9.
			10.
			11.
			12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Inform Foreman of problem hopper.		1. a) Make sure slid gate is open. b) Make sure air pressure is at least 80 Lb. or above.	
2. Lidman should bring to Larrycar Operator the necessary equipment.		2. a) Air lance and air hose lance should be 12 ft. b) Secure all air fittings with a piece of wire.	
3. Larrycar Operator should climb up on hopper		3. a) Climbing ladder using both hands and take one step at a time.	
4. Lidman hands up air lance to Larrycar Operator.		4. a) Wear gloves.	
5. Larrycar Operator places air lance in trouble hopper.	5. a) If on the west hopper hot rails. b) If on the east hopper little footage. c) No rails, make sure of footage	5. a) Lance should be poking in the center of hopper.	
6. Larrycar Operator when in position calls Lidman to turn on air.	6. a) Coal being blown up, little footage	6. a) Face shields & all safety equipment on. b) If at night time Lidman should climb on hopper and hold a flashlight for Larrycar Operator.	

(continued)

BY: GEN. FOREMAN DATE	SAFETY COORINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING J.S.
<i>[Signature]</i> 9-24-85	<i>S. McKinley</i>	9-24-85	<i>[Signature]</i>	9-24-85	<i>A. Arroyo (PB)</i>

JOB SAFETY ANALYSIS <small>19-3808</small>		No. 1	
PLANT COKE		JOB OPERATION TITLE AIR LANCING UPTAKES	
DEPARTMENT OVENS		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB LARRYMAN - LEADER, LIDMAN	
SUPERVISOR J. MORAGNE			
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard hat 2. Face shield 3. Asbestos gloves 4. Safety shoes	5. Good condition clothing 6. Respirator 7. Safety glasses 8.	1. Flames 2. Steam lines 3. Standpipes 4. Larry car	5. Charging holes 6. Larry rails 7. Air lance 8. Liquor lines 9. Air hose 10. 11. 12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Damper off oven leaving east lid on.	a) Flames from standpipe. b) Steam lines for aspiration. c) Larry car travel. d) Tripping hazard of larry car traction rails. e) Flames from charging holes.	a) Alert Larryman as to area in which you are working. b) Make sure larry car is off battery while dampering off. c) Be alert to uninsulated steam lines and leaky joints.	Stepping on lids.
2) Insert steam blower with port pointing down and turn on steam.	a) Burns from steam line. b) Leaky steam line joints.	Be aware of closeness of standpipes.	
3) Connect up air lance.	a) Tripping over hose. b) Tripping on liquor lines.	a) Position lance near oven to be lanced before connecting hose. b) Be alert as to position of hoses and liquor lines.	
4) Have Larryman spot larry car at oven to be air lanced.	Possibility of striking Lidman or anyone working on Battery.	Alert everyone working in the area as to movement of car.	
5) Give lance to Larryman to place into uptake.	a) Larryman being struck by lance. b) Burn from open cap on standpipe	a) Use caution when handing lance to Larryman. b) Check to make sure steam blower is on and blowing down.	Possible leak from Pullman valve if
APPROVED BY - GEN. FOREMAN DATE	SAFETY COORDINATOR T.L. Danko	DATE 9/30/75	SUPERINTENDENT R.A.H. 9/5/75
			DATE SIGNATURE AND TITLE OF PERSON MAKING J.S.A. J.E. Moragne, Supervisor, an

General Larry Car Movement (1984, unsigned)

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1.	5.	1.	5.
2.	6.	2.	6.
3.	7.	3.	7.
4.	8.	4.	8.
9.		9.	
10.		10.	
11.		11.	
12.		12.	
1. When traveling north or south be aware of objects or persons in vicinity.	SB - SA - CW - CB	Be aware of your work area.	
2. Always travel cautiously & with some discretion with regard to weather conditions.	SB - SA - CW - CB	Be aware of weather conditions.	
3. Always keep visibility good in regards to the windows on the larry car.	SB - SA - CW - CB	If windows obstruct visibility notify foreman immediately.	
4. Keep larry car clean & free of coal.	Slipping	Keep proper tool to keep larry car free of coal.	
5. Be certain all sleeve limits are functioning.	Damage to car, battery & other personnel	Test before putting in service.	
6. Notify foreman of any irregularities.			

VED BY	GEN. FOREMAN	DATE	SAFETY COORINATOR	DATE	SUP	DATE	SIGNATURE AND TITLE OF PERSON MAKING JSA
	General	8-22-84	Robert L. Wynn	3/4/84	[Signature]	9/4/84	[Signature] 1466

JOB SAFETY ANALYSIS
19-5808

No.

26

PLANT Chicago - Coke		JOB OPERATION TITLE General Larry Car Movement	
DEPARTMENT Ovens		POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB	
SUPERVISOR C. Hamlin		Larry Car Operator (#594, Husband)	
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. Safety Hat	5. Snood	1. Larry Car	5. Debris
2. Fire Retardent Clothing	6. Safety Glasses	2. Fail Safety Limits	6.
3. Safety Shoes (Metatarsals)	7. Gloves	3. Cracked Glass	7.
4. Respirator	8.	4. Piles of Coal	8.
9.			9.
10.			10.
11.			11.
12.			12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Make machine check prior to putting into service, and notify foreman of any malfunctions.	1. SB, CBY, SA, CW, CB, FS	1. Follow machine operator list as provided and notify foreman of any malfunction.	
2. When traveling in either direction be alert for person or objects in path of Larry Car.	2. SB, SA, CW, CB	2. When traveling be alert at all times, and if making any abnormal moves notify persons in area.	2a. Loss of balance b. Sudden stops c. Derails
3. Always be aware of changing weather conditions and adjust operation as needed.	3. SB, SA, CW, CB	3. When conditions that result in moisture build up on rails, operator must make adjustment to insure proper braking of car. Be aware that moisture and other weather conditions may impair operators visibility.	3a. Failure of braking to stop Larry Car, wheel skidding. 3b. Object on wind impairing proper vision
APPROVED BY GEN. FOREMAN Bridgemen	DATE 4/10/89	SAFETY COORDINATOR <i>Zakwaldae</i>	DATE 4/15/89
		SUPERINTENDENT <i>Hamlin</i>	DATE 4/15/89
		SIGNATURE AND TITLE OF PERSON MAKING VISIO C. Hamlin - Top Foreman	