

Acme Coke
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Chicago IL 60617



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Job Safety Analysis – Quench Car

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JOB SAFETY ANALYSIS No. 5
15-3908

PLANT COKE	JOB OPERATION TITLE CHECKING GATES
DEPARTMENT OVEN	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR
SUPERVISOR O. J. Cox	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Glasses	5. Good Gloves	1. Spilling Hot Coke	5. Mechanical Failure
2. Hard Hat	6. <i>RESPIRATOR</i>	2. Derailment	6. 10.
3. Safety Shoes	7.	3. Visibility	7. 11.
4. Proper Clothing	8.	4. Gate Light Failure	8. 12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Gates must be closed before catching oven of hot coke.	CB	1. Check before start of shift and whenever necessary also when spare car is placed in service.	1. If hot coke is caught in car so gates are not closed, hot coke will go on ground and will have to be quenched with fire hose. This can burn ties or overheat rails and slow down operation
2. Gate lights if working show green when gates are closed.	CBY	2. Visual observation can be made to check gates when necessary.	
3. Open gates to check red lights.		3. When gates are open red lights indicate open gates and unless red lights goes off and green light comes on gates may not be closed.	
Close gates with te valves and check ed proceed with operation.	CB	4. The gate operation is of utmost importance as operation of Q. Car cannot proceed unless gates function properly.	4. Steamy conditions make it necessary to have gate lights working properly.

Y-GEN. FOREMAN DATE	SAFETY COORINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING J.S.A.
	T. Danko	7/2/75	A. Nagan	6/27/75	O. J. Cox Oven Foreman

Checking Gates (1989, unsigned)

JOB SAFETY ANALYSIS No. 45

PLANT Coke	JOB OPERATION TITLE CHECKING GATES
DEPARTMENT	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR
Supervisor Ovens	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Glasses	5. Gloves	1. Spilling Hot Coke	5. Mechanical Failure
2. Hard Hat	6. Respirator	2. Derailment	6. 10.
3. Safety Shoes	7.	3. Poor Visibility	7. 11.
4. Proper Clothing	8.	4. Gate Light Failure	8. 12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Gates to be closed before catching oven of hot coke.	CB	1. Check before start of shift and whenever necessary. Also when spare car is placed in service.	Hot coke damage to railroad ties and rails if gates open while catching load. Use fire hose to put out coke.
2. Gate lights show green when gates closed.	CBY	2. Visual observation to be made to check gates.	
Open gates to check red light.	CBY	3.a. Gates open - red light on; green light go off. b. Gates close - green light comes on; red light goes off.	Steamy condition.
Close gates with gate valve - if closed proceed with pushing schedule.		4. Gates must open and close to maintain a safe and efficient operation.	Steam and darkness make it necessary to have gate lights working properly.

PREPARED BY: GEN. BOEHMAN DATE: 9/28/89
 COORDINATOR: [Signature] DATE: 9/28/89
 SUPERVISOR: [Signature] DATE: 9/28/89
 SIGNATURE AND TITLE OF PERSON MAKING J.S.A.: [Signature]

JOB SAFETY ANALYSIS No. 34
18-5808

PLANT CHICAGO COKE PLANT	JOB OPERATION TITLE CLEANING QUENCH SPRAYS
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB OVEN FOREMEN, LEADERS, MECHANICAL TECHNICAL PEOPLE AND QUENCH CAR OPERATOR
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY	
1. Hard Hat	5. Face Shield	1. Hooked Poker Bar	5. Quench Car
2. Safety Glasses	6.	2. Spray & Assembly	6. Foreign Body
3. Safety Shoes	7.	3. Hot Water	7. Hot Rails
4. Good Gloves	8.	4. Struck from Above	8.
			9. Improper Lockout
			10. Movement of Car
			11. Falling Off Car
			12. Rails & Ties Below
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Travel to quench station.	SA, CB, FB, FS, E	1. Confirm job with Oven General Foreman and Oven Foreman to schedule outage. Lock out hydraulic pump at quench station. Make sure you have necessary tools prior to outage. Have experienced operator controlling the quench car. Make sure all alarms and brakes are working properly on the car. Check the quench tracks - make sure no one is on the tracks. Anyone who boards the car must ride inside the locomotive cab. Position travel control to travel south to station at a safe speed.	1. Loose coke on quench car boarding ramps, HKC and coke guides.
2. Spot car under proper spray to be cleaned.	SA, CB, FB, FS, E	2. Set brakes on quench car. Use flashlight to inspect spray and determine if it can be cleaned without removing the nozzle.	2. Loose boards falling above tower
3. Poke out the spray.	SB, CBY, SA, CW, CB, FB, FS, E	3. Safety glasses and safety shield in place to prevent injury to eyes and face from pieces of flying coke and breeze. Use hooked poker bar to dislodge pieces of coke in spray. Make sure footing is secure. Do balance of sprays using same procedure.	3. Ties

APPROVED BY GEN. FOREMAN DATE	SAFETY COORDINATOR DATE	SUPERINTENDENT DATE	SIGNATURE AND TITLE OF
	T. Zaludoc 7/18/89	[Signature] 7/20/89	Reviewed 5-26-95

JOB SAFETY ANALYSIS
15-5808

No.

PLANT Coke	JOB OPERATION TITLE Dumping coke on pad
DEPARTMENT Oven	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Quench car operator
SUPERVISOR O.J. Cox	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat	5.	1. Disr ailment	5. watching out for
2. Safety Glasses	6.	2. Dropping hot coke	6. front loader
3. Safety Shoes	7.	3. Visibility	7.
4. Respirator (if needed)	8.	4. Key conditions	8.
9.			9.
10.			10.
11.			11.
12.			12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
When Q wharf is full & trouble it may be necessary to dump quenched coke on pad to be picked up by front loader			
Quench coke throughly	CW	increase quench time to be sure no fire in coke	damaging front loader tires
2 Move car to south end of transfer house before dumping		coke must be removed to alloy room to dump without piling up in caten	Derailment
3 Open gates & drip coke on pad	SA-SB	Empty coke on pad with enough room to empty car	
4 Move car north & empty coke completely so it don't hand up in gates	SA-SB	Coke must be all out in order to lock gates	hit coke damage ties
5 Check gate lites to be sure white lites are on & gates are closed	CB	Gates must be locked so hot coke don't drop thru when pushing next oven. Coke must be clear of rails to prevent derailment visibility due to steam may make conditions hazardous	steam & water visibility
6 Proceed to next oven pushed & repeat quenching & emptying car	CB	Q car to spot at proper oven	icy conditions
APPROVED BY: GEN. FOREMAN DATE:	SAFETY COORDINATOR DATE	DATE	SIGNATURE AND TITLE OF PERSON MAKING JSA
	T. L. Cox 10/23/75	9/23/75	J.C.F. 9-11-75

JOB SAFETY ANALYSIS No. 42
15-5808

PLANT: CHICAGO COKE PLANT	JOB OPERATION TITLE DUMPING COKE ON PAD
DEPARTMENT	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR
OVENS SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY		
1. Hard Hat	5. Respirator	1. Derailment	5. Watch out for	9.
2. Safety Glasses	6.	2. Dropping Hot Coke	6. Front Loader	10.
3. Safety Shoes	7.	3. Visibility	7.	11.
4. Proper Clothes	8.	4.	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
WHEN THE WHARF IS FULL, IT MAY BE NECESSARY TO DUMP COKE ON THE PAD TO BE PICKED UP BY FRONT END LOADER.			
1. Quench coke thoroughly.	CW	1. Report hot coke to Oven Foreman.	1. Damage front loader tires.
2. Move car south of transfer house before dumping coke.		2. Coke must be removed to allow room to dump from car. Make sure people and tractor are not in the dumping area.	2. Derailment.
3. Open gates and drop coke on pad.	SA, SB	3. Drop coke on pad with enough room to empty car.	3. Derailment.
4. Move car north and empty completely - close gates.	SA, SB	4. Coke must be all out of quench cr so that gates can lock.	4. Hot coke will damage tires.
5. Check gates to be sure they are closed.	CB	5. Gates must be locked and receive a green light in cab.	5. Steam and poor visibility.
6. Proceed to next oven to be pushed and repeat quench cycle.	CB	6. Check quench car to be sure of proper spot up.	6. Steam and poor visibility.

APPROVED BY GEN. FOREMAN DATE	SAFETY COORDINATOR DATE	SUPERINTENDENT DATE	SIGNATURE AND TITLE OF PERSON MAKING JSA
	T. Zaludac 7/18/89	[Signature] 7/20/89	[Signature] 52675 P. Model

JOB SAFETY ANALYSIS No. 41
15-5808

PLANT CHICAGO COKE PLANT	JOB OPERATION TITLE DUMPING COKE ON WHARF - COLD WEATHER & RAIN
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Glasses	5. Face Shield	1. Slippery Rails	5. Hot Coke
2. Hard Hat	6. Respirator	2. Icy Conditions	6. Poor Brakes
3. Safety Shoes	7.	3. Poor Visibility	7. Steam Conditions
4. Proper Clothing	8.	4. Derailment	8. High Wind
9. Mechanical Failure		10. Electrical Failure	
11.		11.	
12.		12.	
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Travel to wharf after quenching coke.	SA, CW	1. Move car at a safe speed if rails are icy or wet.	1. Excessive speed may derail car. Keep windows clean for good visibility.
2. Check for space to drop coke.	FB	2. Must have space on wharf to dump coke, without spillage. Can check wharf on way to quench station with hot load.	2. Cold weather. Excessive steam. Poor visibility.
3. Open gates on quench car. Drop coke on wharf.		3. Watch to be sure coke is dumped on wharf in available space. Wharf holds about 3 ovens. Use wharf in a systematic manner from south to north.	3. Poor visibility.
4. Move car north to avoid spilling coke.	SA	4. Move car to avoid spilling coke tracks.	
5. Close gates after coke drops on wharf.	SB, CB	5. Gates must be closed and locked for spotting up for next oven.	

APPROVED BY GEN. FOREMAN DATE SAFETY COORDINATOR DATE SUPERINTENDENT DATE

T. Zaludac 8/7/89 [Signature] 8-2-89

JOB SAFETY ANALYSIS
18-5808

No. 1

PLANT COKE	JOB OPERATION TITLE MANUAL OPERATION OF QUENCH STATION THROUGH EMERGENCY SPRAYS
DEPARTMENT OVEN	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB ANY OVEN OPERATOR AVAILABLE WITH FOREMAN TO SUPERVISE CHANGEOVER
SUPERVISOR J. CATURANO	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY		
1. Safety shoes	5.	1.	5.	9.
2. Safety glasses	6.	2.	6.	10.
3. Hard hat	7.	3.	7.	11.
4. Good, dry gloves	8.	4.	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Cut power in quench E. control cabinet.		1) Grab switch by wooden handle and pull down to kill power.	
2) Shut off "chain" valve leading to header. Valve is outside between quench station and pump house.	SB.	2) Watch for chain swinging around while pulling so chain won't strike face or other parts of your body.	
3) Open two 12" "chain" valves inside pump house, leading to emergency sprays.	SB.	3) Same as #2 above.	
4) Set #1 quench timer for 2 minutes and #2 quench timer for 1-1/2 minutes. Set #1 drain timer on zero and #2 drain timer for 20 seconds to allow for operation of golden Anderson valve.			

(OVER)

APPROVED BY-GEN. FOREMAN DATE	SAFETY COÖRINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING J.S.A.
			R.A. Nagan	3/16/76	John S. Caturano, Foreman

JOB SAFETY ANALYSIS

No. 38

PLANT CHICAGO COKE	JOB OPERATION TITLE EMERGENCY QUENCH - MANUALLY OPERATED VALVE AT SOUTH EAST END OF WHARF
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB FOREMAN QUENCH CAR OPERATOR
SUPERVISOR E. BROWN	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
hard hat	5. proper clothing	1. quench loco	5. loose coke on walk
safety glasses	6. respirator	2. electrical	6. water
safety shoes	7.	3. control levers	7.
hot mill gloves	8.	4. derailment	8.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
SPOT QUENCH CAR UNDER EMERGENCY SPRAYS	1. CBY, SA, CW, FS	1. Do not allow anyone who is not authorized to ride on car. Stay inside operator's cab. Travel slowly to emergency sprays. Spot car properly for quench.	1. Tripping
2. OPEN MANUALLY OPERATED VALVE TO SPRAYS	2. SB, CBY, SA, CB, FS, O	2. Visually check to make sure Quench Car is spotted properly. Open valve to emergency sprays. Watch your hands, fingers and arms, as not to strike or pinch them between valve stem and protective barriers.	2. Loose coke, pinch points Lose balance
3. ROCK CAR SLOWLY BACK AND FORTH	3. CBY, SA, CW, FS	3. Allow enough time to put fire out in coke. DO NOT over travel during rocking motion and allow cab and hydraulic motor under sprays.	
END OF QUENCH SEE BELOW			

FOREMAN DATE 4-14-89	SAFETY COORDINATOR	DATE	SUPERINTENDENT	DATE 4-14-89	SIGNATURE AND TITLE OF PERSON MAKING E. BROWN Oven Foreman <i>Reviewed 5-26-95 P. Medved</i>
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JOB SAFETY ANALYSIS
15-3828

No. 13

PLANT COKE	JOB OPERATION TITLE GATE LIGHT REPAIRS ON QUENCH CAR
DEPARTMENT OVEN	WHILE IN SERVICE
SUPERVISOR O. J. COX	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR AND MOTOR INSPECTOR

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety glasses	5.	1. Power to lines	5. Poor visibility
2. Safety shoes	6.	2. Movement of car	6. Steamy conditions
3. Hard hat	7.	3. Electrical wiring	7. Icy rails
4. Gloves	8.	4. Ground	8.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Gate lights not working. Electrical trouble.	Motor Inspector to repair.		
2) Set quench car in center off batteries.	CW	A safe position is required for visibility and repairs.	Good footing below car.
3) Motor Inspector to make repairs. Cuts off power for gate lights.		Power cut off to prevent ground while working on wiring.	Cut all power if necessary.
4) Foreman or Motor Inspector removes controller key after placing in neutral position so quench car cannot move.	SB, SA, CB, FB	Car cannot be moved as Motor Inspector will be working below quench car on gate light switches and is in a hazardous position.	Key must be held by responsible person. With Motor Inspector below car, any movement dangerous
5) Open and close gates as needed by Motor Inspector while making repairs.	CW	Motor Inspector check; Wiring and switches for trouble when gates are opened and closed. He then may replace defective switch or wiring.	Locating trouble varies and must be located to make repairs.
(OVER)			

APPROVED BY-GEN. FOREMAN DATE	SAFETY COORDINATOR	DATE	SUPERINTENDENT R.C. Rankin 2/3/76	DATE 3/30/76	SIGNATURE AND TITLE OF PERSON MAKING J.S.A. O. J. Cox
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B SAFETY ANALYSIS No.		PLANT COKE	JOB OPERATION TITLE SAFE OPERATION WHEN GATE LIGHTS ARE NOT WORKING	
		DEPARTMENT OVEN	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR	
		SUPERVISOR O. J. COX		
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT Safety glasses Hard hat Safety shoes		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY 1. Hot coke 5. Derailment 9. 2. Quench car 6. Smoke from 10. 3. Steam 7. oven pushed 11. 4. Icy or wet tracks 8. 12.		
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS	
Check gate lights.		1) Check to be sure green lights indicate gates are closed and locked. 2)		
If not working satisfactorily, report condition to Foreman.		Normally, motor inspector will be called and repairs made to gate lights when not working.		
At times it will necessitate a delay to make repairs by motor inspector.		3) When gate lights fail, it may be necessary to continue operation until time can be arranged for repairs.	3) If gates open up while catching an oven "hot" coke it will fall along side tracks which	
If, for mechanical or electrical conditions, repairs cannot be made, it may be necessary to operate without gate lights for a period of time.		4) Quench car operator must be sure gates are closed and locked. Visual inspection most times is sufficient. However, when necessary, the gates may have to be checked and closed by using a long pipe on gate arm to lock from below. Control directional key must be removed when this is done.	must be quenched to protect track and wooden ties from burning and warping. This means using fire hoses to extinguish and quench hot coke, which causes steam. And	
Close gates with air valves. When gate	SB, CBY, SA.	5) If weather conditions are favorable, visual inspection by opera-	in cold weather, freezing condi-	
APPROVED BY GEN. FOREMAN DATE	SAFETY COORDINATOR	DATE	SIGNATURE AND TITLE OF PERSON MAKING I&A.	
		R. A. Nagan 3/16/76	DATE 4/13/76	O. J. Cox, Oven Turn Foreman

JOB SAFETY ANALYSIS
18-5808

No. 44

PLANT Coke	JOB OPERATION TITLE Safe operation gate lights not working.
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Quench Car Operator #151 L. V. Crockett
SUPERVISOR Kozar	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Safety Glasses	5. Respirator	1. Hot Coke	9.
2. Hard Hat	6.	2. Steam	10.
3. Safety Shoes	7.	3. Quench Car	11.
4. Proper Clothing	8.	4. Icy or Wet Conditions	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Check gate lights.		Make sure light bulbs are not burned out.	
2. Report condition to foreman immediately		Motor inspector (Electrical Tech) is called to see if repairs can be made right away.	
3. If repairs can't be made and car has to be in service.		a. Operator to make a visual inspection each time gates are opened or closed. b. He may seek help from other employees.	Steam from quenched coke. Steam from coke.

APPROVED BY GEN. FOREMAN DATE P. Bridgeman 4/25/89	SAFETY COORINATOR T. Zaludow	DATE 5/31/89	SUPERVISOR C. Kozar	DATE 6/28/89	SIGNATURE AND TITLE OF PERSON MAKING JSA C. R. Kozar, Oven Foreman Reviewed 5-26-95 P. Medved
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One Motor Operation on Quench Locomotive (1976, O.J. Cox)

REQUIRED AND OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard hat	5.	1. Electrical shock	9.
2. Safety clothes	6.	2. Grounding	10.
3. Safety shoes	7.	3. Insufficient power	11.
4.	8.	4. Icy or wet rails	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) When trouble occurs with quench locomotive operation, it may be necessary to operate with one motor instead of two.	SA, SB.	When malfunction to motor gears or mounts, etc., it becomes necessary to operate with one motor.	Weather conditions
2) Motor Inspector called to quench locomotive.	E.	Motor Inspector given instructions on trouble and power is pulled to eliminate chance of shuck while changing switch position. Foreman is present to take necessary precautions.	Wet or icy conditions.
3) Cut power on rails.	CW.		Coke or Breeze on track.
4) Motor Inspector opens switch to cut out north or south motor.	CW.		Operate control on locomotive.
5) Restore power to locomotive.	CW.	Check to make sure quench car has sufficient power to move along track.	
6) Quench Car Operator operates car at re-	SA, CW.	Quench Car Operator must check movement of car for proper speed and	

(OVER)

APPROVED BY - GEN. FOREMAN	DATE	SAFETY COORINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING JSA
				R.C. Rankin	4/14/76	O.J. Cox, Turn Foreman

JOB SAFETY ANALYSIS <small>15-5808</small>		No. _____	
PLANT COKE		JOB OPERATION TITLE IMPROVING VISIBILITY ON QUENCH CAR	
DEPARTMENT OVEN		POSITION TITLE OF MAN/ MEN WHO DOES/ DO THE JOB QUENCH CAR OPERATOR	
SUPERVISOR O. J. COX			
REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard hat 2. Glasses 3. Safety shield 4. Proper clothing	5. Rubber gloves 6. 7. 8.	1. Scraper 2. Icy conditions 3. Protect hands 4. Slippery footing	5. Coke or breeze 6. 7. 8. 9. 10. 11. 12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1) Clean windows on quench car.	CBY.	Freezing conditions make it necessary to remove ice.	Good visibility is necessary to make proper catches of "hot" coke.
2) In winter, ice accumulates from quenching water.	CW.	a) Use scraper to remove ice. b) Use winter glass cleaner to remove and coat. c) A solvent with alcohol base will help prevent ice formation. d) Watch footing outside car to prevent slipping on ice, water, or coke.	Protect hands with rubber gloves. Watch for broken glass as pinch points.
3) Dust from smoke also causes poor visibility.			
APPROVED BY- GEN. FOREMAN DATE	SAFETY COORDINATOR	DATE	SUPERINTENDENT DATE SIGNATURE AND TITLE OF PE
			R. C. Rankin 5/3/76 O. J. Cox, Oven 169 W. Rushing Que

JOB SAFETY ANALYSIS No. 35
13-5800

PLANT CHICAGO COKE PLANT	JOB OPERATION TITLE IMPROVING VISIBILITY ON QUENCH CAR
DEPARTMENT OVENS	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB QUENCH CAR OPERATOR
SUPERVISOR	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLICTING INJURY		
1. Hard Hat	5. Respirator	1. Scraper	5. Coke	9.
2. Safety Glasses	6. Rubber Gloves	2. Icy Conditions	6. Cleaning Tools	10.
3. Safety Shield	7.	3. Windows & Structure	7.	11.
4. Fire Retardant Clothing	8.	4. Slippery Footing	8.	12.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Clean window on quench car.	SB, CBY, SA, CB, FB, FS	1. Freezing conditions and when winds are from the south during quench make it necessary to clean the windows. Always be aware of the hood car and its position. Watch your footing. Use proper cleaning agent and tools. Pull main power switch inside car before starting to insure no one moves quench car.	1. Tripping hazards. Strike hand on structure. Hood Movement.
2. Icy conditions.	SB, CBY, SA, CB, FB, FS	2. a. Use scraper to remove heavy ice. b. Use winter glass cleaner to remove and coat windows. c. A solvent with alcohol base will help prevent ice formation during cold weather. d. Watch your footing.	2. Tripping hazards, pinch points, hood movement.
3. Remove accumulation dust.	SB, CBY, SA, CB, FB, FS	3. Use spray window cleaner and paper towels to clean dust accumulations. Only clean the windows with safe and easy access. If side windows need cleaning outside, car should be setting out and a ladder with proper feet and smooth level surface	3. Loose balance. Ladder tip over. Tripping hazards

APPROVED BY-GEN. FOREMAN DATE 4-10-89	SAFETY COORDINATOR T. Zaludac	DATE 7/8/89	SUPERVISOR <i>[Signature]</i>	DATE 7/8/89	SIGNATURE AND TITLE OF PERSON MAKING ANALYSIS E. Brown Reviewed 5-26-95 P. Madala
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JOB SAFETY ANALYSIS No. / /

PLANT Coke	JOB OPERATION TITLE Traveling to and from Quench Station
DEPARTMENT Ovens	POSITION TITLE OF MAN (MEN) WHO DOES (DO) THE JOB Quench Car Operator
SUPERVISOR O.J. Cox	

REQUIRED AND/OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT		OBJECTS ON JOB CAPABLE OF INFLECTING INJURY	
1. Hard Hat	5. Safe Working Clothes	1. Q Loco	9.
2. Safety Glasses	6. Respirator (on bench)	2. Q Car	10.
3. Safety Shoes	7.	3. Rails	11.
4. Gloves	8.	4. Hot Water	12.
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	RECOMMENDED SAFE JOB PROCEDURE	REMAINING HAZARDS
1. Walks on Q loco platform to cab	FB, SB, CR	Watch out for moving machinery	Slippery walk, coke on platform
2. Checking operating equipment			
a. Air Pressure			
b. Gate Lites			
c. Window Visibility	SB, CW	Air compressor must be working to insure breaking. Gate lites must be in working condition to insure locking of gates to catch coke and dumping.	Steamy conditions in cold weather Visibility from weather conditions
3. Positioned directional control	SA	Good visibility necessary to observe track conditions. Travel in proper direction to or from wharf.	
4. Move traction controller to move train	SB	Move at safe speed as conditions warrant	Possibility of derailling car
5. Travel slowly to Q station	FB		
6. Apply brakes to stop at quench station of wharf or at oven to push	SA	Stop slowly to avoid sliding if wet or icy conditions.	Allow plenty of space for braking.

APPROVED BY - GEN. FOREMAN DATE	SAFETY COORDINATOR	DATE	SUPERINTENDENT	DATE	SIGNATURE AND TITLE OF PERSON MAKING SA
	T.L. Danko	2/20/75	A. Nagan	12/4/74	O.J. Cox, Oven SR Foreman