RISK MANGEMENT PLAN FORM

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Expiration Date XX/XX/XXXX

Risk Management Plan Form Section 112(r) of the Clean Air Act

Control Number 2050-0144

Submission 1	Гуре:	Where to Send Completed Forms:
☐ First-Time F	RMP Submission	U.S. Environmental Protection Agency Attention:RMP Reporting Center
☐ Correction t	o the Current RMP	P.O. Box 10162 Fairfax, VA 22038
(Submission T	ype = "C")	80.000 S 80.1
C01 C02 C03 C04 C05 C06 C07 C08 C09	Clerical error corrected Additional information supplied Minor administrative change Notification of facility ownership change New accident history information Change in emergency contact information New data element required by EPA Optional data element requested by EPA Removed OCA description from executive summary	If you prefer to send this Risk Management Plar Form by certified mail, courier or overnight mail (e.g. Fed Ex, UPS, Etc.), please address it to: RMP Reporting Center c/o CGI Federal, Inc. 12601 Fairlakes Circle Fairfax, VA 22033
☐ Re-Submiss	sion (all 9 sections are updated and certified)	
(Submission T	ype = "R")	
R01	Newly regulated substance listed by EPA (40 CFR 68.190(b)(2))	
R02	Newly regulated substance above TQ in already covered process (40 CFR 68.190(b)(3))	
R03	Regulated substance present above TQ in new (or previously not covered) process (40 CFR 68.190(b)(4))	
R04	Revised PHÁ / Hazard Review due to process change (40 CFR 68.190(b)(5))	
R05	Revised OCA due to change (40 CFR 68.190(b)(6))	
R06	Change in program level of covered process (40 CFR 68.190(b)(7))	
R07 R08	5-year update (40 CFR 68.190(b)(1)) Process no longer covered (source has other processes that remain covered) (40 CFR	
R09	68.190(b)(7)) Voluntary update (not described by any of the above reasons)	





Executive Summary (attach a separate piece of paper if you need additional space)

Facility Name:				
Section 1. Registrat		D# (leave bl	ank for first submission only)	
1.1 Source Identification				
1.1.a. Facility Name (maximum 50 character	s)			
1.1.b. Parent Company #1 Name (maximum	50 characters)			
1.1.c. Parent Company #2 Name (maximum	50 characters)			
1.2 EPA Facility Identifier (12 characters) (leave blank for first submission only)				
1.3 Other EPA Systems Facility Identifier (15 characters)			
1.4 Dun and Broadcast Numbers (DUNS) (9 characters)			
1.4.a. Facility DUNS	1.4.b Parent Company	y#1 DUNS	1.4.c. Pare	ent Company #2 DUNS
		<u></u>		
1.5 Facility Location				
1.5.a. Street - Line 1 (maximum 35 character	s)			
1.5.b. Street - Line 2 (maximum 35 character	s)			
1.5.c. City (maximum 19 Characters)				1.5.d. State
100				
1.5.e. Zip Code Zip +4 Code		1.5.f. County (maximum 20 characters)		
1.5.g. Facility Latitude (report in decimal degrees)		1.5.h. Facility Longitu	de (report in c	lecimal degrees)
		<u>.</u>	<u> </u>	
+/- D DD D DDDD D		+/- D DD D DDDD D 1.5.j. Description of location identified by Lat/Long		
		1.5.j. Description of lo (see User Manual for Codes		tified by Lat/Long
<u> </u>				
1.5.k. Horizontal accuracy measure (meters)		1.5.I. Horizontal refere	ence datum	code
		1.5.m. Source Map S	cale Numbe	er
	9			

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Facility Name:	
Section 1. Registration	EPA Facility ID# (leave blank for first submission only)
1.6 Owner or Operator	
1.6.a. Name (maximum 35 characters)	
1.6.b. Phone () =	
Owner or Operator Mailing Address	
1.6.c. Street - Line 1 (maximum 35 characters)	
1.6.d. Street - Line 2 (maximum 35 characters)	
1.6.e. City (maximum 19 characters)	1.6.f. State
1.6.g. Zip Code Zip +4 Code	
	_
1.7 Name, title, and email address of person or position resp	
1.7.a. Name of person (maximum 35 characters)	1.7.b. Title of person or position (maximum 35 characters)
1.7.c. Email address of person or position (maximum 35 characte	rs)
1.8.a. Emergency Contact	
1.8.a. Name (maximum 35 characters)	1.8.b. Title of person or position (maximum 35 characters)
1.8.c. Phone ()	1.8.d. 24-Hour Phone () =
1.8.e. 24-Hour Phone Extension/PIN # (maximum 10 characters)	
1.8.f. Email address for emergency contact (maximum 100 chara	cters) Enter N/A if not applicable

Facility Name:	
Section 1. Registration	EPA Facility ID# (leave blank for first submission only)
1.9. Other Points of Contact (Optional)	
1.9.a. Facility or Parent Company E-mail Address (maximum 100 characters)	1.9.b. Facility Public Contact Phone Number
1.9.c. Facility or Parent Company WWW Homepage Address (maximum 100 characters)
1.10 Local Emergency Planning Committee (LEPC) (options	al) (maximum 30 characters)
1.11 Number of full-time equivalent (FTEs) employees on s	site
1.12. Covered by (select all that apply)	
☐ 1.12.a. OSHA PSM	
☐ 1.12.b. EPCRA section 302	
☐ 1.12.c. CAA Title V Air Operating Permit Program. If covere	rd, specify permit ID# below.
	4
1.13. OSHA Star or Merit Ranking (optional)	□NO
1.14. Last Safety Inspection (by an External Agency) Date	MM DD YYYY
1.15. Last Safety Inspection Performed by an External Ager	ncy (select one)
□ 1.15.a. OSHA □ 1.15.b. State occupational safety agency □ 1.15.c. EPA □ 1.15.d. State Environmental Agency □ 1.15.e. Fire Department	☐ 1.15.f. Never had one ☐ 1.15.g. Other (specify) (maximum 50 characters)
4.4C Will this BMD involve Berlieffer Ellis 20 (Oriller)	
1.16. Will this RMP involve Predictive Filing? (Optional)	☐ YES ☐ No

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Facility Name:	
Section 1. Registration	EPA Facility ID# (leave blank for first submission only)

1.17 Process Specific Information. For each covered process, fill in this page. If you are reporting more than one process, make a photocopy of this page and report each process on a separate sheet.

Process ID# (optional - for your reference only)

Process Description (optional - for your reference only)

1.17.a. Program Level (select one)

1.17.b. NAICS Code(s) (five or six digits)

1.17.c. Chemical(s) (regulated substance(s))

1.17.c.1. Name (maximum 100 characters)	1.17.c.2. CAS Number (10 characters)	1.17.c.3. Quantity (lbs) (max. 12 chars.)

If you need more space to list NAICS codes or chemicals, please make a photocopy of this sheet.

Facility Name:	
	Caracan - Caracan - Caracan
	FPA Facility ID# (leave blank for first submission only)



Section 1. Registration

If an outside contractor prepared this risk management plan,
please enter information concerning this contractor in the fields below.

please enter information cor 1.18 RMP Preparer Information	cerning this contractor in the fields b	elow.
1.18.a. Name (maximum 70 characters)		
1.18.b. Phone ()		
1.18.c. Street - Line 1 (maximum 35 characters)		
1.18.d. Street - Line 2 (maximum 35 characters)		
1.18.e. City (Maximum 30 characters)		
1.18.f. State or Province (Maximum 35 characters)	1.18.g. Zip Code Zip+ 4 Code	or Foreign Country (Max 2 characters)
1.18.h. RMP Preparer Foreign Zip Code		

Facility Name:		
Section 2. Toxics: Worst Case (If you need to report more than one worst case scenario, make	EPA Facility ID# (leave blank for first submission only) e a photocopy of pages in this section and report each scenario separately)	
2.1. Chemical		
2.1.a. Name (maximum 100 characters)		
2.1.b. Percent weight of chemicals (if in a mixture)	 . _ %	
2.2. Physical state (select one)	No.	
□ 2.2.a. Gas □ 2.2.b. Liquid	☐ 2.2.c. Gas liquified by pressure ☐ 2.2.d. Gas liquified by refrigeration	
2.3. Model Used (select one or enter another model name in Ot	her below)	
 □ 2.3.a. EPA's OCA Guidance Reference Tables or Equations □ 2.3.b. EPA's RMP Guidance for Ammonia Refrigeration Reference Tables or Equations □ 2.3.d. EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations □ 2.3.e. EPA's RMP Guidance for Warehouses Reference Tables or Equations □ 2.3.f. EPA's RMP Guidance for Chemical Distributors Reference Tables or Equations □ 2.3.g. EPA's RMP* Comp™ □ 2.3.h. Areal Locations of Hazardous Atmospheres (ALOHA®) □ 2.3.z. Other model (specify) (maximum 255 characters) 		
2.4. Scenario (select one) ☐ 2.4.a. Gas Release ☐ 2	2.4.b. Liquid Spill and Vaporization	
2.5. Quantity released (lbs)	2.6. Release rate (Ibs/minute)	
2.7. Release duration (minutes)	2.8. Wind speed (meters/second)	
2.9. Atmospheric stability class (A-F)		
2.10. Topography (select one)		
☐ 2.10.a. Urban	□ 2.10.b. Rural	
2.11. Distance to endpoint (miles)		

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Facility Name:	
Section 2. Toxics: Worst Case	EPA Facility ID# (leave blank for first submission only)
2.12. Estimated residential population within distance to en	dpoint (numeric)
	,,
2.13. Public receptors within distance to endpoint (select al	that apply)
☐ 2.13.a. Schools	2.13.g. Other (specify) (maximum 200 characters)
☐ 2.13.b. Residences	
☐ 2.13.c. Hospitals	
☐ 2.13.d. Prison/Correctional Facilities	
☐ 2.13.e. Recreation Areas	
☐ 2.13.f. Major commercial, office, or industrial areas	-
2.14. Environmental receptors within distance to endpoint ((select all that apply)
2.14.a. National or State Parks, Forests, or Monuments	☐ 2.14.d. Other (specify) (maximum 200 characters)
☐ 2.14.b. Officially Designated Wildlife Sanctuaries, Preserves, or Refuges	
☐ 2.14.c. Federal Wilderness Area	
2.15. Passive mitigation considered (select all that apply)	
☐ 2.15.a. Dikes	☐ 2.15.f. Other (specify) (maximum 200 characters)
☐ 2.15.b. Enclosures	
□ 2.15.c. Berms	
☐ 2.15.d. Drains	
☐ 2.15.e. Sumps	

2.16. Graphics file name (optional) (maximum 12 characters)

Facility Name:				
Section 3. Toxics: Alternative Release EPA Facility ID# (leave blank for first submission only) (If you need to report more than one alternative release scenario, make a copy of pages in this section and report each scenario separately) 3.1. Chemical				
3.1.a. Name (maximum 100 characters)				
3.1.b. Percent weight of chemical (if in a mixture)	%			
3.2. Physical State (select one)				
☐ 3.2.a. Gas ☐ 3.2.b. Liquid	3.2.c. Gas liquified by pressure3.2.d. Gas liquified by refrigeration			
3.3. Model Used (select one or enter another model name in Ot	her below)			
 □ 3.3.a. EPA's OCA Guidance Reference Tables or Equations □ 3.3.b. EPA's RMP Guidance for Ammonia Refrigeration Reference Tables or Equations □ 3.3.d. EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations □ 3.3.e. EPA's RMP Guidance for Warehouse Reference Tables or Equations □ 3.3.f. EPA's RMP Guidance for Chemical Distributors Reference Tables or Equations □ 3.3.g. EPA's RMP*Comp™ □ 3.3.h. Areal Locations of Hazardous Atmospheres (ALOHA®) □ 3.3.z. Other model (specify) (maximum 200 characters) 				
3.4. Scenario (select one) 3.4.a. Transfer hose failure 3.4.b. Pipe Leak 3.5.c. Vessel Leak 3.4.d. Overfilling 3.4.e. Rupture disk/relief valve failure				
3.5. Released (lbs)	3.6. Release Rate (lbs/minute)			
3.7. Release Duration (minutes)	3.8. Wind Speed (meters/second)			
3.9. Atmospheric stability class (A-F)				

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Facility Name:	
Section 3. Toxics: Alternative Release	EPA Facility ID# (leave blank for first submission only) o, make a copy of pages in this section and report each scenario separately)
3.10. Topology (select one)	☐ 3.10.b. Rural
3.11. Distance to endpoint (miles)	
3.12. Estimated residential population within distance to endpoi	int,
3.13. Public receptors within distance to endpoint (select all that ☐ 3.13.a. Schools ☐ 3.13.b. Residences ☐ 3.13.c Hospitals ☐ 3.13.d. Prisons/Correctional facilities	at apply) 3.13.e. Recreation Areas 3.13.f. Major commercial, office, or industrial areas 3.13.g. Other (specify) (maximum 200 characters)
 3.14. Environmental receptors within distance to endpoint (selection) 3.14.a. National or State Parks, Forests, or Monuments 3.14.b. Officially Designated Wildlife Sanctuaries, Preserves, or Refuges 3.14.c. Federal Wilderness Area 	ect all that apply) 3.14.d. Other (specify) (maximum 200 characters)
 3.15. Passive mitigation considered (select all that apply) 3.15.a. Dikes 3.15.b. Enclosures 3.15.c. Berms 3.15.d. Drains 	3.15.e. Sumps 3.15.f. Other (specify) (maximum 200 characters)
3.16. Active mitigation considered (select all that apply) 3.16.a. Sprinkler systems 3.16.b. Deluge systems 3.16.c. Water curtain 3.16.d. Neutralization 3.16.e. Excess flow valve 3.16.f. Flares 3.17. Graphics file name (optional) (maximum 12 characters)	□ 3.16.g. Scrubbers □ 3.16.h. Emergency shutdown systems □ 3.16.i. Other (specify) (maximum 200 characters)

Facility Name:	
Section 4. Flammables: Worst Case	EPA Facility ID# (leave blank for first submission only)
4 (If you need to report more than one worst-case scenario, make	e a photocopy of pages in this section and report each scenario separately)
(ii you need to report more than one worst-case sections, make	a priococpy of pages in this section and report each section of separately,
4.1.a. Chemical Name (maximum 100 characters)	
4.2. Model Used (select one or enter another model name in Oth	ner below)
☐ 4.2.a. EPA's OCA Guidance Reference Tables or Equation	ns
\square 4.2.c. EPA's RMP Guidance for Ammonia Refrigeration Re	
☐ 4.2.d. EPA's RMP Guidance for Waste Water Treatment P	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
☐ 4.2.e. EPA's RMP Guidance for Warehouse Reference Tal	
 □ 4.2.f. EPA's RMP Guidance for Chemical Distributors Refe □ 4.2.g. EPA's RMP*Comp™ 	erence Tables or Equations
☐ 4.2.z. Other model (specify) (maximum 235 characters)	
4.2.2. Other model (openly) (maximum 200 originator)	
4.3. Scenario (only one option)	
Vapor Cloud Explosion	l .
4.4. Quantity released (lbs)	4.5. Endpoint Used (only one option)
4.4. Quality released (103)	1 PSI
	1 F31
4.6. Distance to endpoint (miles)	4.7. Estimated residential population within distance to
	endpoint
	·••, ·•••, ·••
NATIONAL WINDOWS IN A SECOND OF THE	WE 199
4.8. Public Receptors within distance to endpoint (select all the	at apply)
☐ 4.8.a. Schools	4.8.f. Major commercial, office, or industrial areas
☐ 4.8.b. Residences ☐ 4.8.c Hospitals	4.8.g. Other (specify) (maximum 200 characters)
☐ 4.8.d. Prisons/Correctional facilities	8
☐ 4.8.e. Recreation Areas	-
1975 200 00 00 81 00 98800 120 20 00 00 00 00 A 10	10 2000 No. No. No. No.
4.9. Environmental receptors within distance to endpoint (sele-	AND GRADE AND THE MEDICAL PROPERTY OF THE STANDARD OF THE STAN
4.9.a. National or State Parks, Forests, or Monuments	☐ 4.9.d. Other (specify) (maximum 200 characters)
4.9.b. Officially Designated Wildlife Sanctuaries,	
Preserves, or Refuges 4.9.c. Federal Wilderness Area	
4.9.c. Federal Wilderness Area	· .

Facility Name:	
4. Section 4. Flammables: W	EPA Facility ID# (leave blank for first submission only)
4.10. Passive mitigation considered (select scenario)	all that were considered in defining the release quantity or rate for the worst-case
☐ 4.10.a. Blast walls	☐ 4.10.b. Other (specify) (maximum 200 characters)
4.11. Graphics file name (optional) (maximu	um 12 characters)

Facility Name:	
5 Section 5. Flammables: Alternative Release (If you need to report more than one alternative release scena scenario separately)	EPA Facility ID# (leave blank for first submission only) ease ario, make a photocopy of pages in this section and report each
5.1. Chemical Name (maximum 100 characters)	
5.2. Model Used (select one or enter another model name in Of	ther below)
 □ 5.2.a. EPA's OCA Guidance Reference Tables or Equatio □ 5.2.c. EPA's RMP Guidance for Propane Storage Referen □ 5.2.d. EPA's RMP Guidance for Waste Water Treatment F □ 5.2.e. EPA's RMP Guidance for Warehouse Reference Ta □ 5.2.f. EPA's RMP Guidance for Chemical Distributors Ref □ 5.2.g. EPA's RMP*Comp™ □ 5.2.z. Other model (specify) (maximum 235 characters) 	nce Tables or Equations Plants Reference Tables or Equations ables or Equations
5.3. Scenario (select one)	
☐ 5.3.a. Vapor cloud explosion ☐ 5.3.b. Fireball ☐ 5.3.c. BLEVE ☐ 5.3.d. Pool fire ☐ 5.3.e. Jet fire	☐ 5.3.f. Vapor cloud fire ☐ 3.4.g. Other (specify) (maximum 30 characters)
5.4. Quantity released (lbs)	
5.5 Endpoint used (select one)	
☐ 5.5.a. 1 PSI ☐ 5.5.b. 5 kw/m² for 40 seconds	

5.6. Distance to endpoint (miles)	5.7. Estimated residential population within distance to endpoint
	·•·, ·••·, ·••·

☐ 5.5.c. Lower flammability limit (specify percent volume)

Facility Name:		

Section 5. Flammables: Alternative Release EPA Facility ID# (leave blank for first submission only)			
5.8. Public Receptors within distance to endpoint (select all that apply)			
□ 5.8.a. Schools □ 5.8.b. Residences □ 5.8.c Hospitals □ 5.8.d. Prisons/Correctional facilities □ 5.8.e. Recreation Areas	☐ 5.8.f. Major commercial, office, or industrial areas ☐ 5.8.g. Other (specify) (maximum 200 characters)		
5.9. Environmental receptors within distance to endpoint (select all that apply)			
 □ 5.9.a. National or State Parks, Forests, or Monuments □ 5.9.b. Officially Designated Wildlife Sanctuaries, Preserves, or Refuges □ 5.9.c. Federal Wilderness Area 	□ 5.9.d. Other (specify) (maximum 200 characters)		
5.10. Passive mitigation considered (select all that apply)			
□ 5.10.a. Dikes □ 5.10.b. Fire walls □ 5.10.c. Blast walls □ 5.10.d. Enclosures	□ 5.10.e. Other (specify) (maximum 200 characters)		
5.11. Active mitigation considered (select all that apply)	☐ 5.11.e. Other (specify) (maximum 200 characters)		
□ 5.11.a. Sprinkler systems □ 5.11.b. Deluge systems □ 5.11.c. Water curtain □ 5.11.d. Excess flow valve			
5.12. Graphics file name (optional) (maximum 12 characters)			

Facility Name:				-
Section 6. Five-Year Accident History EPA Facility ID# (leave blank for first submission only) (If you need to report more than one accident history, make a photocopy of pages in this section and report each scenario separately)				
Would you like to certify that your facility <i>did not</i> had \(\text{Yes};\) leave the rest of this section blank	ive any repo	ortable accidents in the la		nt
6.1. Date of accident (day, month, and year) MM DD Y	Y Y Y	6.2. Time accident beg	an (hours and minut □ a.m. □ p.m.	es)
63. NAICS code of process involved		6.4. Release duration (hours and minutes) H H H M M M		
6.5.a.i. Chemical name (maximum 100 characters)	6.5.a.ii. CAS Number		6.5.b. Quantity released (lbs.)	6.5.c. Percent weight of chemical if in a mixture (toxics only)
		<u> </u>		
6.6. Release event (select at least one) □ a. Gas release □ b. Liquid spills/evaporation □ c. Fire		☐ d. Explosion☐ e. Uncontrolled/Rur	naway Reaction	
6.7. Release Source (select at least one) a. Storage vessel b. Piping c. Process vessel d. Transfer hose e. Valve f. Pump		g. Joint h. Other (specify) (n	naximum 200 chara	cters)

Facility Name:				
Section 6. Five-Year Accident History EPA Facility ID# (leave blank for first submission only)				
22 1925 35 NO 10 US	6.8. Weather conditions at time of event a.i. Wind speed (numerical) Wind speed unit a.ii. Wind direction			
<u></u>	miles/hr. □ knots □	meters/sec.		
b. Temperature (°F)	c. Atmospheric stabil	ity class (A-F)	☐ d. Precipitation present	
☐ e. Unknown weather conditions (check if a	a-d are all unknown)			
6.9 On-site Impacts	-			
a. Deaths (enter numbers)		b. Injuries (enter num	nbers)	
a.i. Employees or contractors		b.i. Employee	es or contractors	
a.ii. Public responders		b.ii. Public re:	sponders	
a.iii. Public		b.iii. Public		
c. Property damage	\$,	.,		
6.10. Known off-site impacts (enter numb	ere)			
a. Deaths	•	d. Evacua	ated	
b. Hospitalizations			red-in-place	
c. Other medical treatments	7250721 V2 10		1000-01000-0100-0100-0100-0100-0100-01	
c. Other medical treatments		f. Property damage (\$)		
6.10.g. Environmental damage (select all that apply)				
□ g.1. Fish or animal kills □ g.2. Tree, lawn, shrub, or crop damages g.3. Water contamination □ g.4. Soil contamination □ g.5. Other (specify) (maximum 200 c	y 80 49			

Facility Name:	
Section 6. Five-Year Accident History	EPA Facility ID# (leave blank for first submission only)
6.11. Initiating event (select one)	
□ a. Equipment failure □ b. Human error	□ c. Natural (weather conditions, earthquake)□ d. Unknown
6.12. Contributing factors (select all that apply)	
□ a. Equipment failure □ b. Human error □ c. Improper procedure □ d. Over pressurization □ e. Upset condition □ f. By-pass condition □ g. Maintenance activity/inactivity □ h. Process design failure	 i. Unsuitable equipment j. Unusual weather conditions k. Management error l. uncontrolled/runaway reaction m. Other (specify) (maximum 200 characters)
6.13. Off-site responders notified (select one)	
a. Notified only b. Notified and responded	□ c. No, not notified □ d. Unknown
6.14. Changes introduced as a result of the accident	
(select at least one) a. Improved/upgraded equipment b. Revised maintenance c. Revised training d. Revised operating procedures e. New process controls f. New mitigation systems g. Revised emergency response plan h. Changed process i. Reduced inventory	☐ j. None ☐ k. Other (specify) (maximum 200 characters)

Facility N	Name:				
7	Section 7. Prevention Program: Program 3 EPA Facility ID# (leave blank for first submission only) (If you need to report more than one prevention program, make a photocopy of pages in this section and report each scenario separately)				
Preventio	on Program descripti	on:			
7.1. NAIC	S code for process				
	nical name(s) n 100 characters)				
	If you nee	d more space to list chemica	als, please make a photo copy of this sheet.		
7.3. Date	on which the safety inf	ormation was last reviewed o	or revised M M D D Y Y Y Y		
7.4. Proce	ess Hazards Analysis (l	PHA)			
7.4.a. Date	e of last PHA or PHA upo	date			
			M M D D Y Y Y Y		
7.4.b.1 7.4.b.2 7.4.b.3 7.4.b.4	hnique used (select at . What if 2. Checklist 3. What if/Checklist co 4. HAZOP 6. Failure Mode & Effe	ombined	☐ 7.4.b.6. Fault Tree Analysis ☐ 7.4.b.7. Other (specify) (maximum 200 characters)		

Facility Name:	
Section 7. Prevention Program: Progra	EPA Facility ID# (leave blank for first submission only)
7.4.c. Expected or actual date of completion of all changes res	sulting from last PHA or PHA update
	MM DD YYYY
7.4.d. Major hazards identified (select at least one)	 7.4.d.10. Equipment failure 7.4.d.11. Loss of cooling, heating, electricity,
☐ 7.4.d.1. Toxic release	Instrument air
☐ 7.4.d.2. Fire	☐ 7.4.d.12. Earthquake
7.4.d.3. Explosion	☐ 7.4.d.13. Floods (flood pain)
7.4.d.4. Runaway reaction	☐ 7.4.d.14. Tornado
☐ 7.4.d.5. Polymerization☐ 7.4.d.6. Over pressurization☐	7.4.d.15. Hurricanes
7.4.d.o. Over pressurization 7.4.d.7. Corrosion	☐ 7.4.d.16. Other (specify) (maximum 200 characters)
7.4.d.7. Confosion 7.4.d.8. Overfilling	
7.4.d.9. Contamination	
2 7.4.d.s. Sondamination	
	9
7.4.e. Process controls in use (select at least one)	
☐ 7.4.e.1. Vents	☐ 7.4.e.12. Emergency power
☐ 7.4.e.2. Relief valves	☐ 7.4.e.13. Backup pump
☐ 7.4.e.3. Check valves	☐ 7.4.e.14. Grounding equipment
☐ 7.4.e.4. Scrubbers	☐ 7.4.e.15. Inhibitor addition
☐ 7.4.e.5. Flares	☐ 7.4.e.16. Rupture disks
☐ 7.4.e.6. Manual shutoffs	☐ 7.4.e.17. Excess flow device
☐ 7.4.e.7. Automatic shutoffs	7.4.e.18. Quench system
7.4.e.8. Interlocks	☐ 7.4.e.19. Purge system ☐ 7.4.e.20. None
7.4.e.9. Alarms and procedures	☐ 7.4.e.21. Other (specify) (maximum 200 characters)
☐ 7.4.e.10. Keyed bypass ☐ 7.4.e.11. Emergency air supply	1.4.e.21. Other (specify) (maximum 200 characters)
7.4.e. 11. Emergency all supply	
	<u>-</u>
7.4.f. Mitigation systems in use (select at least one)	
☐ 7.4.f.1. Sprinkler system	☐ 7.4.f.7. Enclosure
☐ 7.4.f.2. Dikes	☐ 7.4.f.8. Neutralization
☐ 7.4.f.3. Fire walls	☐ 7.4.f.9. None
☐ 7.4.f.4. Blast walls	7.4.f.10. Other (specify)(maximum 200 characters)
7.4.f.5. Deluge system	
☐ 7.4.f.6. Water curtain	***
7.4 m. Manitarina/datastian outtons in use (aslast at least	
7.4.g. Monitoring/detection systems in use (select at least one)	☐ 7.4.g.4. Other (specify)(maximum 200 characters)
one,	- 7.4.g.4. Other (specify)(maximum 200 originaters)
☐ 7.4.g.1. Process area detectors	
☐ 7.4.g.2. Perimeter monitors	
☐ 7.4.g.3. None	

Facility Name:	
8.500 874 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	m 3 EPA Facility ID# (leave blank for first submission only)
7.4.h. Changes since last PHA update (select at least one) 7.4.h.1. Reduction in chemical inventory 7.4.h.2. Increase in chemical inventory 7.4.h.3. Change in process parameters 7.4.h.4. Installation of process controls 7.4.h.5. Installation of process detection systems 7.4.h.6. Installation of perimeter monitoring systems 7.4.h.7. Installation of mitigation systems	☐ 7.4.h.8. None recommended ☐ 7.4.h.9. None ☐ 7.4.h.10. Other (specify) (maximum 200 characters)
7.5. Date of most recent review or revision of operating proced	M M D D Y Y Y Y
7.6. Training 7.6.a. Date of most recent review or review of operating procedures	M M D D Y Y Y Y
7.6.b. Type of training provided (select at one) 7.6.b.1. Classroom 7.6.b.2. On the job 7.6.b.3. Other (specify) (maximum 200 characters)	
7.6.c. Type of competency testing used (select at least one) 7.6.c.1. Written test 7.6.c.2. Oral Test 7.6.c.3. Demonstration	☐ 7.6.c.4. Observation ☐ 7.6.c.5. Other (specify)(maximum 200 characters)

7.7. Maintenance

7.7. Waliteliance	
7.7.a. Date of most recent review or revision of maintenance procedures	MM DD YYYY
7.7.b. Date of most recent equipment inspection or test	MM DD YYYY
7.7.c. Equipment most recently inspected or tested (list equipment) (maximur	n 200 characters)

Facility Name:	
Section 7. Prevention Program: Program 3 EPA Facility ID#	f (leave blank for first submission only)
7.8 Management of Change	
7.8.a. Date of most recent changes that triggered management of change procedures.	MM DD YYYY
7.8.b. Date of most recent changes that triggered management of change procedures.	MM DD YYYY
7.9. Date of most recent pre-startup review	M M D D Y Y Y Y
7.10. Compliance audits	
7.10.a. Date of most recent compliant audit	MM DD YYYY
7.10.b. Expected or actual date of completion of all changes resulting from the compliance audit	M M D D Y Y Y Y
7.11. Incident investigation	
7.11.a. Date of most recent incident investigation (if any)	MM DD YYYY
7.11.b. Expected or actual date of completion of all changes resulting from the incident investigation	MM DD YYYY
7.12. Date of most recent review or revision of employee participation plans	M M D D Y Y Y Y
7.13. Date of most recent review or revision of hot work permit procedures	MM DD YYYY
7.14. Date of most recent review or revision of contractor safety procedures	M M D D Y Y Y Y
7.15. Date of most recent review or revision of contractor safety performance	

DD YYYY

ММ

Facility Name:	
8	EPA Facility ID# (leave blank for first submission only) ke a photocopy of pages in this section and report each scenario separately)
Prevention Program description: 8.1. NAICS code for process	
8.2. Chemical name(s) (maximum 100 characters)	s, please make a photo copy of this sheet.
8.3 Safety Information	s, please make a photo copy of this sheet.
8.3. Date of most recent review or revision of safety information	M M D D Y Y Y Y
8.3.b. Federal/state regulations or industry-specific design codes and standards used to demonstrate compliance with safety information requirement (select at least one) 8.3.b.1. NFPA 58 (or state law based on NFPA 58) 8.3.b.2. OSHA (29 CFR 1910.111) 8.3.b.3. ASTM Standards 8.3.b.4. ANSI Standards 8.3.b.5. ANSME Standards 8.3.b.6. None 8.3.b.8. Comments (100 characters)	□ 8.3b.7. Other (specify) (maximum 200 characters)

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Facility Name:	
10 100 100 100 100 100 100 100 100 100	m 2 EPA Facility ID# (leave blank for first submission only)
8.4. Hazard review	
8.4.a. Date of completion of most recent hazard review or update	MM DD YYYY
8.4.b. Expected or actual date of completion of all changes resulting	g from the hazard review MM DD YYYY
8.4.c. Major hazards identified (select at least one)	
□ 8.4.c.1. Toxic release □ 8.4.c.2. Fire □ 8.4.c.3. Explosion □ 8.4.c.4. Runaway reaction □ 8.4.c.5. Polymerization □ 8.4.c.6. Over pressurization □ 8.4.c.7. Corrosion □ 8.4.c.8. Overfilling □ 8.4.c.9. Contamination □ 8.4.c.10. Equipment failure	 8.4.c.11. Loss of cooling, heating, electricity, instrument air 8.4.c.12. Earthquake 8.4.c.13. Floods (flood pain) 8.4.c.14. Tornado 8.4.c.15. Hurricanes 8.4.c.16. Other (specify) (maximum 200 characters)
8.4.d. Process controls in use (select at least one)	
□ 8.4.d.1. Vents □ 8.4.d.2. Relief valves □ 8.4.d.3. Check valves □ 8.4.d.4. Scrubbers □ 8.4.d.5. Flares □ 8.4.d.6. Manual shutoffs □ 8.4.d.7. Automatic shutoffs □ 8.4.d.8. Interlocks □ 8.4.d.9. Alarms and procedures □ 8.4.d.10. Keyed bypass □ 8.4.d.11. Emergency air supply □ 8.4.d.12. Emergency power	 8.4.d.13. Backup pump 8.4.d.14. Grounding equipment 8.4.d.15. Inhibitor addition 8.4.d.16. Rupture disks 8.4.d.17. Excess flow device 8.4.d.18. Quench system 8.4.d.19. Purge system 8.4.d.20. None 8.4.d.21. Other (specify) (maximum 200 characters)

Facility Name:	
8 Section 8. Prevention Program: Program 2	EPA Facility ID# (leave blank for first submission only

Section 8. Prevention Program: Progra	EPA Facility ID# (leave blank for first submission only) am 2
8.4.e. Mitigation systems in use (select at least one) 8.4.e.1. Sprinkler system 8.4.e.2. Dikes 8.4.e.3. Fire walls 8.4.e.4. Blast walls 8.4.e.5. Deluge system 8.4.e.6. Water curtain 8.4.e.7. Enclosure	□ 8.4.e.8. Neutralization □ 8.4.e.9. None □ 8.4.e.10. Other (specify)(maximum 200 characters)
8.4.f. Monitoring/detection systems in use (select at least one)	
□ 8.4.f.1. Process area detectors □ 8.4.f.2. Perimeter monitors □ 8.4.f.3. None	□ 8.4.f.4. Other (specify)(maximum 200 characters)
8.4.g. Changes since last hazard review or hazard review update (select at least one) 9.4.g.1. Reduction in chemical inventory 9.4.g.2. Increase in chemical inventory 9.8.4.g.3. Change in process parameters 9.8.4.g.4. Installation of process controls 9.8.4.g.5. Installation of process detection systems 9.8.4.g.6. Installation of perimeter monitoring systems 9.8.4.g.7. Installation of mitigation systems	□ 8.4.g.8. None recommended □ 8.4.g.9. None □ 8.4.g.10. Other (specify) (maximum 200 characters)
8.5. Date of most recent review or revision of safety inf	ormation M M D D Y Y Y Y
8.6. Training	
8.6.a. Date of most recent review or revision of training programs	M M D D Y Y Y Y
8.6.b. Type of training provided (select at one) 8.6.b.1. Classroom 8.6.b.2. On the job 8.6.b.3. Other (specify) (maximum 200 characters)	

Facility Name:	
Section 8. Prevention Program: Program 2	PA Facility ID# (leave blank for first submission only)
8.6.c. Type of competency testing used (select at least one)	c.5. Other (specify)(maximum 200 characters)
□ 8.6.c.1. Written test □ 8.6.c.2. Oral Test □ 8.6.c.3. Demonstration □ 8.6.c.4. Observation	
8.7. Maintenance	
8.7.a. Date of most recent review or revision of maintenance procedures	MM DD YYYY
8.7.b. Date of most recent equipment inspection or test	MM DD YYYY
8.7.c. Equipment most recently inspected or tested (list equipment) (maximur	m 200 characters)
8.8. Compliance audits	
8.8.a. Date of most recent compliant audit	MM DD YYYY
8.8.b. Expected or actual date of completion of all changes resulting from the audit	compliance
	MM DD YYYY
8.9. Incident investigation	
8.9.a. Date of most recent incident investigation (if any)	MM DD YYYY
8.9.b. Expected or actual date of completion of all changes resulting from the investigation	incident M.M. D.D. Y.Y.Y.Y
8.10. Date of most recent change that triggered a review or a revision o information, the hazard review, operating or maintenance procedures, o	

Appendix A: Risk Management Plan Form

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