

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 VEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

SEP 2 5 2007

REPLY TO THE ATTENTION OF:

SC-6J

## CERTIFIED MAIL RETURN RECEIPT REQUESTED

Tom Porritt Environmental Manager S.D. Warren Co. 2400 Lakeshore Drive Muskegon, MI 49441

RE: Complaint and Expedited Settlement Agreement

ESA Docket No: RMP-07-ESA-004

Docket No. CAA-05-2007-0031

Bit 2150 113AUS3

Dear Mr. Porritt:

Enclosed please find a copy of the fully executed Expedited RMP Settlement Agreement (ESA). The ESA is binding on U.S. EPA and Respondent. U.S. EPA will take no further action against Respondent for the violations cited in the ESA. The ESA requires no further action on your part.

Please feel free to contact Monika Chrzaszcz at (312) 886-0181 if you have any questions regarding the enclosed document or if you have any other question about the program. Thank you for your assistance in resolving this matter.

Sincerely yours,

Mark J. Horwitz, Chief.

Chemical Emergency

Preparedness & Prevention Section

Enclosure(s)



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

# EXPEDITED SETTLEMENT AGREEMENT (ESA)

DOCKET NO: RMP-07-ESA-004

This ESA is issued to: S. D. Warren Co.

At: 2400 Lakeshore Drive, Muskegon, Michigan 49443-0119

for violating Section 112(r)(7) of the Clean Air Act.

CAA-05-2007-0031

BD#1:2950903A033

This Expedited Settlement Agreement (ESA) is being entered into by the United States Environmental Protection Agency (EPA), Region 5, by its duly delegated official, the Director, Division, and by Respondent pursuant to Section 113(a)(3) and (d) of the Clean Air Act, 42 U.S.C. § 7413(a)(3) and (d), and by 40 C.F.R. § 22.13(b). On November 30, 2006, EPA obtained the concurrence of the U.S. Department of Justice, pursuant to Section 113(d)(1) of the Act, 42 U.S.C. §7413(d)(1), to pursue this administrative enforcement action.

#### **ALLEGED VIOLATIONS**

On August 10, 2006 an authorized representative of the EPA conducted a compliance inspection of the subject facility (Respondent) to determine compliance with the Risk Management Plan (RMP) regulations promulgated at 40 C.F.R. Part 68 under Section 112(r) of the Act. EPA found that the Respondent had violated regulations implementing Section112(r) of the Act by failing to comply with the regulations as noted on the attached RISK MANAGEMENT PLAN INSPECTION FINDINGS, ALLEGED VIOLATIONS AND PROPOSED PENALTY SHEET (FORM), which is hereby incorporated by reference.

#### SETTLEMENT

In consideration of Respondent's size of business, its full compliance history, its good faith effort to comply, and other factors as justice may require, and upon consideration of the entire record the parties enter into the ESA in order to settle the violations, described in the attached FORM for the total penalty amount of \$3,850.00

This settlement is subject to the following terms and conditions:

The Respondent by signing below waives any objections that it may have regarding jurisdiction, neither admits nor denies the specific factual allegations contained in herein and in the FORM, and consents to the assessment of the penalty as stated above. Respondent waives its rights to a hearing afforded by Section 113(d)(2)(A) of the Act, 42 U.S.C §7413(d)(2)(A), and to appeal this ESA. Each party to this action shall bear its own costs and fees, if any. Respondent also certifies, subject to civil and criminal penalties for making a false submission to the United States Government, that the Respondent has corrected the violations listed in the attached FORM and has sent a cashier's check or certified check (payable to the "Treasurer, United States of America") in the amount of \$3,850.00 in payment of the full penalty amount to the following address:

U.S. EPA Region 5 P.O. Box 371531 Pittsburg, PA 15251-7531 The DOCKET NUMBER OF THIS ESA must be included on the check. (The DOCKET NUMBER is located at the top left corner of this ESA.)

This original ESA and a copy of the check must be sent by certified mail to:

Monika Chrzaszcz Chemical Emergency Preparedness and Prevention Section (SC-6J) U.S. Environmental Protection Agency 77 West Jackson Boulevard Chicago, Illinois 60604-3590

Upon Respondent's submission of the signed original ESA, EPA will take no further civil action against Respondent for the alleged violations of the Act referenced in the FORM. EPA does not waive any other enforcement action for any other violations of the Clean Air Act or any other statute.

If the signed original ESA with an attached copy of the check is not returned to the EPA Region 5 office at the above address in correct form by the Respondent within 45 days of the date of Respondent's receipt of it (90 days if an extension is granted), the proposed ESA is withdrawn, without prejudice to EPA's ability to file an enforcement action for the violations identified herein and in the FORM.

This ESA is binding on the parties signing below.

FOR RESPONDENT:

This ESA is effective upon filing with the Regional Hearing Clerk.

Signature:	Date: <u>9-6-37</u>
Name (print): NETEROY A. Moranicron	_
Title (print): 10 TERIAM MARKEING DINGS	201
S. D. Warren Co.	
FOR COMPLAINANT:  Alichard C. Karl, Director Superfund Division  I hereby ratify the ESA and incorporate it herein by reference  Mary A. Gade, Regional Administrator	Date: 9/2009  e. It is so ORDERED.  Date: 9/2009

20) SFP 25 AM IO. 10



#### U.S. ENVIRONMENTAL PROTECTION AGENCY

### RISK MANAGEMENT PROGRAM INSPECTION FINDINGS, ALLEGED VIOLATIONS AND PROPOSED PENALTY SUMMARY

**REASON FOR INSPECTION:** This inspection is for the purpose of determining compliance with the accidental release prevention requirements of Section 112(r)(7) of the Clean Air Act (Act), 42 U.S.C. § 7412(r)(7), and the regulations set forth at 40 C.F.R. Part 68. The scope of this inspection may include, but is not limited to: reviewing and obtaining copies of documents and records; interviews and taking of statements; reviewing chemical storage, handling, processing, and use; taking samples and photographs; and any other inspection activities necessary to determine compliance with the Act.

EAGULTIVALISE	x PRIVATE   GOVERNMENTAL/MUNICIPAL
FACILITY NAME S.D. Warren Co.	258 EMPLOYEES POPULATION SERVED
FACILITY ADDRESS 2400 Lakeshore Drive PO Box 0119	INSPECTION START DATE AND TIME: 08/10/2006, 9:00am
Muskegon. MI 49443-0119	INSPECTION END DATE AND TIME: 06/10/2006, 3:00pm
RESPONSIBLE OFFICIAL, TITLE, PHONE NUMBER Monika Chrzaszcz, Environmental Engineer, (312) 886-0181	EPA FACILITY ID# 100000134213
FACILITY REPRESENTATIVE(S), TITLE(S). PHONE NUMBER(S) Tom Porritt, Environmental Engineer, (617) 423-7300 Mike Wolffis, Safety Manager, (617) 423-7300 Mike Theiler, Mill Manager, (617) 423-7300	INSPECTOR NAME(S), TITLE(S), PHONE NUMBER(S) Monika Chrzaszcz, Environmental Engineer, (312) 886-0181
FACILITY REPRESENTATIVE, SIGNATURE DATE	INSPECTOR SIGNATURE (MANAGED DATE
INSPEC	TION FINDINGS
IS FACILITY SUBJECT TO RMP REGULATION (40 CFR 68)?	x YES 🗖 NO
DID FACILITY SUBMIT AN RMP AS PROVIDED IN 68.150 TO 68.185?	x YES 🗆 NO
DATE RMP FILED WITH EPA: 6/18/1999 DAT	E OF LATEST RMP UPDATE: 9/27/2001
PROCESS/NAICS CODE: 22131 Water Supply and Irrigation Systems	GRAM LEVEL: 1 🗓 2 🖸 3 x
REGULATED SUBSTANCE: Chlorine MAX	QUANTITY IN PROCESS: 20,000 (lbs.)
PROCESS/NAICS CODE: 322121 Paper (except Newsprint) Mills     PROCESS/NAICS CODE: 322121 Paper (except Newsprint) Mills	GRAM LEVEL: 1 2 2 3x
REGULATED SUBSTANCE: Chlorine dioxide MAX	QUANTITY IN PROCESS: 13,255 (lbs.) * Reported but no longer a process covered under RMP
3) PROCESS/NAICS CODE:PRO	GRAM LEVEL: 1 0 2 0 3 0
REGULATED SUBSTANCE: MA	QUANTITY IN PROCESS:(lbs)
4) PROCESS/NAICS CODE: PRO	OGRAM LEVEL: 1 0 2 0 3 0
REGULATED SUBSTANCE: MA	(, QUANTITY IN PROCESS: (lbs)
5) PROCESS/NAICS CODE: PROCESS/NAICS CODE: PROCESS/NAICS CODE:	OGRAM LEVEL: 1 0 2 0 3 0
REGULATED SUBSTANCE: MA	(. QUANTITY IN PROCESS:(lbs)
DID FACILITY CORRECTLY ASSIGN PROGRAM LEVELS TO PROCESSES?	xYES 🗆 NO
ATTACHED CHECKLIST(S):	
☐ PROGRAM LEVEL 1 PROCESS CHECKLIST ☐ PROGRAM LEVEL 2 PROCESS CHE	CKLIST x PROGRAM LEVEL 3 PROCESS CHECKLIST
OTHER ATTACHMENTS: 1) Risk Management Program Inspection Findings, Alleged Violations and proposed penalt 2) Inspection Report 3) Picture Attachment 1	
INSPECTION SYMBOL KEY: Y - YES, N - NO, N/A - NOT APPLICABLE, S - SATISFACTOR	7, M - MARGINAL, U - UNSATISFACTORY

### Program Level 3 Process Checklist

Date RMP submitted: Initial: 06/18/1999, Update 03/01, 09/01, 12/01  All comments and suggestions are in bold and italicized.	cess(es	) came	onlin	e: 
Section A-Management [68.15]				
Management system developed and implemented as provided in 40 CFR 68.15?  Comments:	⊠S	ΠМ	u U	□ N/A
Has the owner or operator:				
Developed a management system to oversee the implementation of the risk management progra elements? [68.15(a)]	am	⊠Y	□N	□ N/A
2. Assigned a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements? [68.15(b)]		⊠Y	□N	□ N/A
3. Documented other persons responsible for implementing individual requirements of the risk management program and defined the lines of authority through an organization chart or similar document? [68.15(c)]  At the time of the inspection an organization chart was available. The owner or operator shows the time of the inspection and organization chart was available.	uld	⊠Y	□N	□ N/A
make sure that the organizational chart is updated accordingly to reflect employees currently responsible at the company.				
Section B: Hazard Assessment [68.20-68.42]				
Hazard assessment conducted and documented as provided in 40 CFR 68.20-68.42? Comments:	⊠S	□М	□U	□ N/A
Hazard Assessment: Offsite consequence analysis parameters [68.22]				
<ol> <li>Used the following endpoints for offsite consequence analysis for a worst-case scenario: [68.22(a)]</li> <li>■ a. For toxics: the endpoints provided in Appendix A of 40 CFR Part 68? [68.22(a)(1)]</li> <li>■ b. For flammables: an explosion resulting in an overpressure of 1 psi? [68.22(a)(2)(i)]</li> </ol>		⊠Y	□N	□ N/A
or  c. For flammables: a fire resulting in a radiant heat/exposure of 5 kw/m² for 40 seconds?  [68.22(a)(2)(ii)]  or				
d. For flammables: a concentration resulting in a lower flammability limit, as provided in NF documents or other generally recognized sources? [68.22(a)(2)(iii)]	PA			
<ul> <li>Used the following endpoints for offsite consequence analysis for an alternative release scenario [68.22(a)]</li> <li>☑ a. For toxics: the endpoints provided in Appendix A of 40 CFR Part 68? [68.22(a)(1)]</li> <li>☑ b. For flammables: an explosion resulting in an overpressure of 1 psi? [68.22(a)(2)(i)]</li> <li>☑ c. For flammables: a fire resulting in a radiant heat/exposure of 5 kw/m2 for 40 seconds? [68.22(a)(2)(ii)]</li> <li>☑ d. For flammables: a concentration resulting in a lower flammability limit, as provided in NFP documents or other generally recognized sources? [68.22(a)(2)(iii)]</li> </ul>		⊠Y	□N	□ N/A
3. Used appropriate wind speeds and stability classes for the release analysis? [68.22(b)]		⊠Y	□N	□ N/A
4. Used appropriate ambient temperature and humidity values for the release analysis? [68.22(c)]		⊠Y	ΠN	□ N/A
5. Used appropriate values for the height of the release for the release analysis? [68.22(d)]		⊠Y	ΠN	□ N/A
6. Used appropriate surface roughness values for the release analysis? [68.22(e)]		⊠Y	ΠN	□ N/A
<ol> <li>Do tables and models, used for dispersion analysis of toxic substances, appropriately account for dense or neutrally buoyant gases? [68.22(f)]</li> </ol>	r	⊠Y	□N	□ N/A

### Program Level 3 Process Checklist

8. Were liquids, other than gases liquefied by refrigeration only, considered to be released at the highest daily maximum temperature, based on data for the previous three years appropriate for a stationary source, or at process temperature, whichever is higher? [68.22(g)]	ΩY	□N	⊠ N/A
Hazard Assessment: Worst-case release scenario analysis [68.25]			
9. Analyzed and reported in the RMP one worst-case release scenario estimated to create the greatest distance to an endpoint resulting from an accidental release of a regulated toxic substance from covered processes under worst-case conditions? [68.25(a)(2)(i)]	⊠Y	□N	□ N/A
Analyzed and reported in the RMP one worst-case release scenario estimated to create the greatest distance to an endpoint resulting from an accidental release of a regulated flammable substance from covered processes under worst-case conditions? [68.25(a)(2)(ii)]	ΠY	□N	⊠ N/A
11. Analyzed and reported in the RMP additional worst-case release scenarios for a hazard class if the a worst-case release from another covered process at the stationary source potentially affects public receptors different from those potentially affected by the worst-case release scenario developed under 68.25(a)(2)(i) or 68.25(a)(2)(ii)? [68.25(a)(2)(iii)]	ΠY	□N	⊠ N/A
<ul> <li>12. Has the owner or operator determined the worst-case release quantity to be the greater of the following: [68.25(b)]</li> <li>☑ a. If released from a vessel, the greatest amount held in a single vessel, taking into account administrative controls that limit the maximum quantity? [68.25(b)(1)]</li> <li>The worst case release scenario analyzed the release of 6,025 lbs of chlorine dioxide over 60 minutes, within a diked area of 2,741 squared meters. This was a release from the 60,194 gal storage tank. As of August 18<sup>th</sup>, 2005, the facility no longer has chlorine dioxide on site, so the worst case release should reflect the largest vessel of chlorine, the only other process chemical on site that is above threshold. This vessel would be the 2,000 lb vessel that chlorine is stored in. On September 5, 2006, US EPA received a letter that reflected information on the 2,000 lbs consequence analysis.</li> <li>□ b. If released from a pipe, the greatest amount held in the pipe, taking into account administrative controls that limit the maximum quantity? [68.25(b)(2)]</li> </ul>	⊠Y	ΠN	□ N/A
13a. Has the owner or operator for <u>toxic substances</u> that are <u>normally gases</u> at <u>ambient temperature and</u> <u>handled as a gas or liquid under pressure</u> :			
13.a.(1) Assumed the whole quantity in the vessel or pipe would be released as a gas over 10 minutes? [68.25(c)(1)]	ΠY	ΠN	⊠ N/A
13.a.(2) Assumed the release rate to be the total quantity divided by 10, if there are no passive mitigation systems in place? [68.25(c)(1)]	ΠY	ΠN	⊠ N/A
13.b. Has the owner or operator for toxic gases handled as refrigerated liquids at ambient pressure:			
13.b.(1) Assumed the substance would be released as a gas in 10 minutes, if not contained by passive mitigation systems or if the contained pool would have a depth of 1 cm or less? [68.25(c)(2)(i)]	ΠY	□N	⊠ N/A
passive mitigation systems or if the contained pool would have a depth of 1 cm or less?	□Y □Y		⊠ N/A
passive mitigation systems or if the contained pool would have a depth of 1 cm or less? [68.25(c)(2)(i)]  13.b.(2) [ Optional for owner / operator ] Assumed the quantity in the vessel or pipe would be spilled instantaneously to form a liquid pool, if the released substance would be contained by			
passive mitigation systems or if the contained pool would have a depth of 1 cm or less?  [68.25(c)(2)(i)]  13.b.(2) [ Optional for owner / operator ] Assumed the quantity in the vessel or pipe would be spilled instantaneously to form a liquid pool, if the released substance would be contained by passive mitigation systems in a pool with a depth greater than 1 cm? [68.25(c)(2)(ii)]  13.b.(3) Calculated the volatilization rate at the boiling point of the substance and at the conditions	ΟY	□N	⊠ N/A
passive mitigation systems or if the contained pool would have a depth of 1 cm or less?  [68.25(c)(2)(i)]  13.b.(2) [ Optional for owner / operator ] Assumed the quantity in the vessel or pipe would be spilled instantaneously to form a liquid pool, if the released substance would be contained by passive mitigation systems in a pool with a depth greater than 1 cm? [68.25(c)(2)(ii)]  13.b.(3) Calculated the volatilization rate at the boiling point of the substance and at the conditions specified in 68.25(d)? [68.25(c)(2)(ii)]	ΟY	□N	⊠ N/A

### Program Level 3 Process Checklist

pool? [68.25(d)(1)]			
13.c.(2) Determined the surface area of the pool by assuming that the liquid spreads to 1 cm deep, if there is no passive mitigation system in place that would serve to contain the spill and limit the surface area, or if passive mitigation is in place, the surface area of the contained liquid shall be used to calculate the volatilization rate? [68.25(d)(1)(i)]	⊠Y	□N	□ N/A
13.c.(3) Taken into account the actual surface characteristics, if the release would occur onto a surface that is not paved or smooth? [68.25(d)(1)(ii)]	⊠Y	□N	□ N/A
13.c.(4) Determined the volatilization rate by accounting for the highest daily maximum temperature in the past three years, the temperature of the substance in the vessel, and the concentration of the substance if the liquid spilled is a mixture or solution? [68.25(d)(2)]	⊠Y	ΠN	□ N/A
13.c.(5) Determined the rate of release to air from the volatilization rate of the liquid pool? [68.25(d)(3)]	⊠Y	ΠN	□ N/A
13.c.(6) Determined the rate of release to air by using the methodology in the RMP Offsite Consequence Analysis Guidance, any other publicly available techniques that account for the modeling conditions and are recognized by industry as applicable as part of current practices, or proprietary models that account for the modeling conditions may be used provided the owner or operator allows the implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request? [68.25(d)(3)]	⊠Y	□N	□ N/A
13.d. Has the owner or operator for <u>flammables</u> :			
13.d.(1) Assumed the quantity in a vessel(s) of flammable gas held as a gas or liquid under pressure or refrigerated gas released to an undiked area vaporizes resulting in a vapor cloud explosion? [68.25(e)]	ΠY	ΠN	⊠ N/A
13.d.(2) For refrigerated gas released to a contained area or liquids released below their atmospheric boiling point, assumed the quantity volatilized in 10 minutes results in a vapor cloud? [68.25(f)]	ΩY	ΠN	⊠ N/A
13.d.(3) Assumed a yield factor of 10% of the available energy is released in the explosion for determining the distance to the explosion endpoint, if the model used is based on TNT-equivalent methods? [68.25(e)]	ΠY	□N	⊠ N/A
14. Used the parameters defined in 68.22 to determine distance to the endpoints? [68.25(g)]	⊠Y	ΠN	□ N/A
15. Determined the rate of release to air by using the methodology in the RMP Offsite Consequence Analysis Guidance, any other publicly available techniques that account for the modeling conditions and are recognized by industry as applicable as part of current practices, or proprietary models that account for the modeling conditions may be used provided the owner or operator allows the implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request? [68.25(g)] a. What modeling technique did the owner or operator use? [68.25(g)]  SLAB & INPUFF Models were used. Also used EPA Guidance for WWTP.	ΣY	□N	□ N/A
16. Ensured that the passive mitigation system, if considered, is capable of withstanding the release event triggering the scenario and will still function as intended? [68.25(h)]	ΠY	□N	⊠ N/A
17. Considered also the following factors in selecting the worst-case release scenarios: [68.25(i)]  a. Smaller quantities handled at higher process temperature or pressure? [68.25(i)(1)]  b. Proximity to the boundary of the stationary source? [68.25(i)(2)]	ΠY	□N	⊠ N/A
Hazard Assessment: Alternative release scenario analysis [68.28]			

acility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443			
18. Identified and analyzed at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes? [68.28(a)]	⊠Y	□N	□ N/A
19. Selected a scenario: [68.28(b)]  ☑ a. That is more likely to occur than the worst-case release scenario under 68.25?  [68.28(b)(1)(i)]	⊠Y	□N	□ N/A
b. That will reach an endpoint off-site, unless no such scenario exists? [68.28(b)(1)(ii)]	<u> </u>		
20. Considered release scenarios which included, but are not limited to, the following: [68.28(b)(2)]  □ a. Transfer hose releases due to splits or sudden hose uncoupling? [68.28(b)(2)(i)]  □ b. Process piping releases from failures at flanges, joints, welds, valves and valve seals, and drains or bleeds? [68.28(b)(2)(ii)]  One alternative release scenario identified, analyzed the release of 373 lbs of chlorine dioxide	¥	□N	□ N/A
over 15 minutes, resulting in a release rate of 25 lbs.min.			
A Second alternative release scenario identified, analyzed the release of 400 lbs of chlorine over 20 minutes, resulting in a release rate of 20 lbs/min.			
d. Vessel overfilling and spill, or overpressurization and venting through relief valves or rupture disks? [68.28(b)(2)(iv)]			
<ul> <li>e. Shipping container mishandling and breakage or puncturing leading to a spill?</li> <li>[68.28(b)(2)(v)]</li> </ul>			
21. Used the parameters defined in 68.22 to determine distance to the endpoints? [68.28(c)]	⊠Y	ΠN	□ N/A
22. Determined the rate of release to air by using the methodology in the RMP Offsite Consequence Analysis Guidance, any other publicly available techniques that account for the modeling conditions and are recognized by industry as applicable as part of current practices, or proprietary models that account for the modeling conditions may be used provided the owner or operator allows the implementing agency access to the model and describes model features and differences from publicly available models to local emergency planners upon request? [68.28(c)]	⊠Y	□N	□ N/A
23. Ensured that the passive and active mitigation systems, if considered, are capable of withstanding the release event triggering the scenario and will be functional? [68.28(d)]	ΠY	ΠN	⊠ N/A
24. Considered the following factors in selecting the alternative release scenarios: [68.28(e)]  a. The five-year accident history provided in 68.42? [68.28(e)(1)]  b. Failure scenarios identified under 68.67? [68.28(e)(2)]	ΠY	ΠN	⊠ N/A
Hazard Assessment: Defining off-site impacts-Population [68.30]			
25. Estimated population that would be included in the distance to the endpoint in the RMP based on a circle with the point of release at the center? [68.30(a)]	⊠Y	ΠN	□ N/A
26. Identified the presence of institutions, parks and recreational areas, major commercial, office, and industrial buildings in the RMP? [68.30(b)]	⊠Y	ΠN	□ N/A
27. Used most recent Census data, or other updated information to estimate the population? [68.30(c)]	⊠Y	ΠN	□ N/A
28. Estimated the population to two significant digits? [68.30(d)]	⊠Y	ΠN	□ N/A
Hazard Assessment: Defining off-site impacts-Environment [68.33]			
29. Identified environmental receptors that would be included in the distance to the endpoint based on a circle with the point of release at the center? [68.33(a)]	⊠Y	□N	□ N/A
30. Relied on information provided on local U.S.G.S. maps, or on any data source containing U.S.G.S. data to identify environmental receptors? [ Source may have used LandView to obtain information ]	⊠Y	□N	□ N/A

Program Level 3 Process Checklist

[68.33(b)]			
Hazard Assessment: Review and update [68.36]			
31. Reviewed and updated the off-site consequence analyses at least once every five years? [68.36(a)]	⊠\	′ □N	□ N/A
32. Completed a revised analysis and submit a revised RMP within six months of a change in processes, quantities stored or handled, or any other aspect that might reasonably be expected on increase or decrease the distance to the endpoint by a factor of two or more? [68.36(b)]	ΟY	□N	⊠ N/A
Hazard Assessment: Documentation [68.39] Has the owner/operator maintained the following records:			
33. For worst-case scenarios: a description of the vessel or pipeline and substance selected, assumptions and parameters used, the rationale for selection, and anticipated effect of the administrative controls and passive mitigation on the release quantity and rate? [68.39(a)]	⊠\	′ 🗆 N	□ N/A
34. For alternative release scenarios: a description of the scenarios identified, assumptions and parameters used, the rationale for the selection of specific scenarios, and anticipated effect of the administrative controls and mitigation on the release quantity and rate? [68.39(b)]	⊠\	′ □N	□ N/A
35. Documentation of estimated quantity released, release rate, and duration of release? [68.39(c)]	⊠\		□ N/A
36. Methodology used to determine distance to endpoints? [68.39(d)]	⊠\		□ N/A
37. Data used to estimate population and environmental receptors potentially affected? [68.39(e)]	⊠\	/ <b>□</b> N	□ N/A
Hazard Assessment: Five-year accident history [68.42]			
38. Has the owner or operator included all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage? [68.42(a)] According to the owner or operator, there have been no accidents at the facility in the past 5 years.	ΟY	′ □N	⊠ N/A
39. Has the owner or operator reported the following information for each accidental release: [68.42(b)]  a. Date, time, and approximate duration of the release? [68.42(b)(1)]  b. Chemical(s) released? [68.42(b)(2)]  c. Estimated quantity released in pounds and percentage weight in a mixture (toxics)? [68.42(b)(3)]  d. NAICS code for the process? [68.42(b)(4)]  e. The type of release event and its source? [68.42(b)(5)]  f. Weather conditions (if known)? [68.42(b)(6)]  g. On-site impacts? [68.42(b)(7)]  h Known offsite impacts? [68.42(b)(8)]  i. Initiating event and contributing factors (if known)? [68.42(b)(9)]  j. Whether offsite responders were notified (if known)? [68.42(b)(10)]  k. Operational or process changes that resulted from investigation of the release? [68.42(b)(11)]	ΩY	'□N	⊠ N/A
Section C: Prevention Program			
Implemented the Program 3 prevention requirements as provided in 40 CFR 68.65 - 68.87? Comments:	os ⊠i	<b>⁄</b> □ l	J 🗆 N/A
Prevention Program- Process Safety information [68.65]			
Has the owner or operator compiled written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information	X	/ <b>O</b> N	□ N/A

Facility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443			
pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by the rule? [68.65(a)]  At the time of the inspection, the facility had on site and MSDS from PCI Chemicals, Inc. dated			
Does the process safety information contain the following for hazards of the substances: [68.65(b)]  □ a. Toxicity information? [68.65(b)(1)]  □ b. Permissible exposure limits? [68.65(b)(2)]  □ c. Physical data? [68.65(b)(3)]  □ d. Reactivity data? [68.65(b)(4)]  □ e. Corrosivity data? [68.65(b)(5)]  □ f. Thermal and chemical stability data? [68.65(b)(6)]  □ g. Hazardous effects of inadvertent mixing of materials that could foreseeably occur? [68.65(b)(7)]			
<ul> <li>2. Has the owner documented information pertaining to technology of the process?</li> <li>☑ A block flow diagram or simplified process flow diagram? [68.65(c)(1)(i)]</li> <li>Have diagrams for both chlorine dioxide and chlorine processes.</li> <li>☑ Process chemistry? [68.65(c)(1)(ii)]</li> </ul>	⊠Y	□N	□ N/A
<ul> <li>☑ Maximum intended inventory? [68.65(c)(1)(iii)]</li> <li>Specified in RMP</li> <li>☑ Safe upper and lower limits for such items as temperatures, pressures, flows, or compositions?</li> </ul>			
[68.65(c)(1)(iv)]  Pressure specifications in P&ID's, some operating limits specified in HAZOP, other limits specified in Doc #WI-LCL-017.			
<ul> <li>☑ An evaluation of the consequences of deviation? [68.65(c)(1)(iv)]</li> <li>Specified in HAZOP</li> <li>☑ Does the process safety information contain the following for the equipment in the process: [68.65(d)(1)]</li> <li>☑ Materials of construction? 68.65(d)(1)(i)]</li> <li>☑ Piping and instrumentation diagrams [68.65(d)(1)(ii)]</li> <li>☑ Electrical classification? [68.65(d)(1)(iii)]</li> </ul>			
<ul> <li>☑ Relief system design and design basis? [68.65(d)(1)(iv)]</li> <li>At the time of the inspection, documentation was reviewed that specified fusible plugs, pressure relief valves, rupture disks, vacuum regulators and relief valves. This information is included in the PSM information book.</li> <li>☑ Ventilation system design? [68.65(d)(1)(v)]</li> </ul>			
At the time of the inspection, documentation was reviewed that specified one room air change every 4 minutes, which also was included in the PSM information book.  \[ \subseteq \text{ Design codes and standards employed? [68.65(d)(1)(vi)]} \]  Codes included Chlorine Institute, Inc., Chlorine Manual, 1986, Pamphlets #6 and #9.  \[ \subseteq \text{ Material and energy balances for processes built after June 21, 1999? [68.65(d)(1)(vii)]} \]			
Safety systems? [68.65(d)(1)(viii)]	FIV		
Has the owner or operator documented that equipment complies with recognized and generally accepted good engineering practices? [68.65(d)(2)]	⊠Y	<u> </u>	□ N/A
4. Has the owner or operator determined and documented that existing equipment, designed and constructed in accordance with codes, standards, or practices that are no longer in general use, is designed, maintained, inspected, tested, and operating in a safe manner? [68.65(d)(3)]	⊠Y	□N	□ N/A
Prevention Program- Process Hazard Analysis [68.67]			
<ol> <li>Has the owner or operator performed an initial process hazard analysis (PHA), and has this analysis identified, evaluated, and controlled the hazards involved in the process? [68.67(a)]</li> <li>An initial PHA was conducted in 1996.</li> </ol>	⊠Y	ΠN	□ N/A
6. Has the owner or operator determined and documented the priority order for conducting PHAs, and was it based on an appropriate rationale? [68.67(a)]	⊠Y	□N	□ N/A
7. Has the owner used one or more of the following technologies to conduct process PHA: [68.67(b)]	⊠Y	ΠN	□ N/A

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<ul><li>☑ Checklist? [68.67(b)(2)]</li><li>☐ What-if/Checklist? [68.67(b)(3)]</li></ul>			
☐ What-in-Checkhist: [08.07(0)(3)] ☐ Hazard and Operability Study (HAZOP) [68.67(b)(4)]			
☐ Failure Mode and Effects Analysis (FMEA) [68.67(b)(5)]			
☐ Fault Tree Analysis? [68.67(b)(6)] ☐ An appropriate equivalent methodology? [68.67(b)(7)]	•		
8. Did the PHA address:  The hazards of the process? [68.67(c)(1)]  Identification of any incident which had a likely potential for catastrophic consequences? [68]  Engineering and administrative controls applicable to hazards and interrelationships? [68.67(C)(E) Consequences of failure of engineering and administrative controls? [68.67(c)(4)]  Stationary source siting? [68.67(c)(5)]  Human factors? [68.67(c)(6)]		□N	□ N/A
<ul> <li>✓ An evaluation of a range of the possible safety and health effects of failure of controls? [68.6]</li> </ul>	67(c)(7)]		
9. Was the PHA performed by a team with expertise in engineering and process operation the team include appropriate personnel? [ 68.67(d)]	ns and did 🔻 🖂 Y	□N	□ N/A
10. Has the owner or operator established a system to promptly address the team's finding recommendations; assured that the recommendations are resolved in a timely manner documented; documented what actions are to be taken; completed actions as soon as developed a written schedule of when these actions are to be completed; and communications to operating, maintenance, and other employees whose work assignments are process and who may be affected by the recommendations? [68.67(e)] At the time of the inspection, the recommendations specified on the PHA that resulted MOC were addressed, but the recommendations from the January 10 <sup>th</sup> , 2004 revalidation and addressed. US EPA received a letter on September 5, 2006, that included the stated January 10 <sup>th</sup> , 2004 PHA recommendations status. The owner or operator should main status report as part of its records and make sure that all recommendations are promaddressed.	and possible; icated the in the ed from an tion were tus of the ntain this	⊠N	□ N/A
<ol> <li>Has the PHA been updated and revalidated by a team every five years after the comple initial PHA to assure that the PHA is consistent with the current process? [68.67(f)]</li> </ol>	etion of the	□N	□ N/A
12. Has the owner or operator retained PHAs and updates or revalidations for each process well as the resolution of recommendations for the life of the process? [68.67(g)]	s covered, as 🖂 Y	□N	□ N/A
Prevention Program- Operating procedures [68.69]			
13. Has the owner or operator developed and implemented written operating procedures th instructions or steps for conducting activities associated with each covered process con the safety information? [68.69(a)]		□N	□ N/A

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<ul> <li>         ∑Safety and health considerations: [68.69(a)(3)]         <ul> <li>□ Properties of, and physical hazards presented by, the chemicals used in the process[68.69(a)(3)(i)]</li> <li>□ Precautions necessary to prevent exposure, including engineering controls, administrative controls, and personal protective equipment? [68.69(a)(3)(ii)]</li> <li>□ Control measures to be taken if physical contact or airborne exposure occurs? [68.69(a)(3)(iii)]</li> <li>□ Quality control for raw materials and control of hazardous chemical inventory levels? [68.69(a)(3)(iv)]</li> <li>□ Any special or unique hazards? [68.69(a)(3)(v)]</li> <li>□ Safety systems and their functions? [68.69(a)(4)]</li> </ul> </li> </ul>			
15. Are operating procedures readily accessible to employees who are involved in a process? [68.69(b)]	⊠Y	ΠN	□ N/A
16. Has the owner or operator certified annually that the operating procedures are current and accurate and that procedures have been reviewed as often as necessary?[68.69(c)]  At the time of the inspection, there was documentation showing that the operating procedures were reviewed on 8/4/2006. Prior to that, the owner or operator stated that the procedures were reviewed after the 2005 HAZOP. The owner or operator does not have documentation that shows operating procedures are certified annually. US EPA received a letter on September 5, 2006 that included a Log of revisions and reviews of operating procedures. This log only includes dates from 2004-2006 and in 1994, when most of the procedures were first created. The owner or operator should keep a log of all annual certifications.	ΞY	⊠N	□ N/A
17. Has the owner or operator developed and implemented safe work practices to provide for the control of hazards during specific operations, such as lockout/tagout? [68.69(d)]	⊠Y	ΠN	□ N/A
Prevention Program - Training [68.71]			
18. Has each employee involved in operating a process, and each employee before being involved in operating a newly assigned process, been initially trained in an overview of the process and in the operating procedures?[68.71(a)(1)] At the time of the inspection, the owner or operator stated that initially there is an operator-operator mentoring/ training process. This process usually lasts between 2-4 months and includes change out of cylinders. Seasoned operators monitor and notify when new employees are capable to work on their own without supervision.	⊠Y	□N	□ N/A
19. Did initial training include emphasis on safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks? [68.71(a)(1)]	⊠Y	ΠN	□ N/A
20. In lieu of initial training for those employees already involved in operating a process on June 21, 1999, an owner or operator may certify in writing that the employee has the required knowledge, skills, and abilities to safely carry out the duties and responsibilities as specified in the operating procedures [68.71(a)(2)]	ΟY	□N	⊠ N/A
21. Has refresher training been provided at least every three years, or more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process? [68.71(b)] At the time of the inspection, the owner or operator stated that the facility has a Working Bird system that monitors both mandatory and elective training that employees take. This system is a track record for the company. Annually the company has awareness training. In addition, the facility has operator training, which consists of a video, PSM training and awareness, and 8 hour, Hazwoper annual training. At the time of the inspection, the following records were reviewed: 8/1/2006 PSM Awareness Video Review for Bruce Waterman, Ron Firlit, Dan Preston, Dennis Schulet, 4/28/2005 Chlorinator System O&M & Safety, 4/18/2005 CL2 Safety, 1/23/2001 PSM/RMP Training, 2/16/2001 additional PSM overview for those that were not in attendance for the 1/23/2001 training.	⊠Y	□N	□ N/A
Has owner or operator ascertained and documented in record that each employee involved in operating a process has received and understood the training required? ]	⊠Y	□N	□ N/A
23. Does the prepared record contain the identity of the employee, the date of the training, and the			

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Facility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443 means used to verify that the employee understood the training? [68.71(c)] |X|Y□ N/A Prevention Program - Mechanical Integrity [68.73] ⊠Y □N □ N/A 24. Has the owner or operator established and implemented written procedures to maintain the ongoing integrity of the process equipment listed in 68.73(a)? [68.73(b)] The facility is in current transition of maintenance activities. Prior to June 2006, engineering and maintenance were responsible for all maintenance at the facility. ABB has been contracted to do mechanical integrity work at the facility. The owner or operator should make sure that require that ABB employees stay up to date with training, seeing that approximately 40 of these employees are on site at the facility. At the time of the inspection, mechanical integrity procedures were reviewed, these procedures need to be updated to accurately reflect the current actions at the facility. A SAP system is used to enter inspection and test information, which the facility started using in 1998, the newest version being 2004. This systems generates work orders for all maintenance work that is needed, contracted or not. There is a weekly planning meeting where work orders are reviewed and prioritized. ⊠Y □N □ N/A 25. Has the owner or operator trained each employee involved in maintaining the on-going integrity of process equipment? [68.73(c)] 26. Performed inspections and tests on process equipment? [68.73(d)(1)] ⊠Y □N □ N/A At the time of the inspection, the following inspection documentation was reviewed: 7/10/2003 Longview inspection, 3/19/2005 US Filter/RS Technical pressure relief valves, 3/30/2005 Gas feeder, 8/30/2005 and 4/6/2005 crane, 2004 and 2005 record of calibrations of CL Water flow meter. Recommend obtaining procedures on storage tank maintenance or documentation on tank inspection by supplier. Also, recommend changing out pressure relief valves every 5 years. Piping work is contracted out to North Shore for maintenance. Scale calibration and maintenance is conducted by DC Martin. ⊠Y □N □ N/A 27. Followed recognized and generally accepted good engineering practices for inspections and testing procedures? [68.73(d)(2)] 28. Ensured the frequency of inspections and tests of process equipment is consistent with applicable ⊠Y □N □ N/A manufacturers' recommendations, good engineering practices, and prior operating experience? [68.73(d)(3)] 29. Documented each inspection and test that had been performed on process equipment, which ⊠Y □N □ N/A identifies the date of the inspection or test, the name of the person who performed the inspection or test, the serial number or other identifier of the equipment on which the inspection or test was performed, a description of the inspection or test performed, and the results of the inspection or test? [68.73(d)(4)] 30. Corrected deficiencies in equipment that were outside acceptable limits defined by the process □Y □N ⊠ N/A safety information before further use or in a safe and timely manner when necessary means were taken to assure safe operation? [68.73(e)] 31. Assured that equipment as it was fabricated is suitable for the process application for which it will be ⊠Y □N □ N/A used in the construction of new plants and equipment? [68.73(f)(1)] 32. Performed appropriate checks and inspections to assure that equipment was installed properly and ⊠Y □N □ N/A consistent with design specifications and the manufacturer's instructions? [68.73(f)(2)] 33. Assured that maintenance materials, spare parts and equipment were suitable for the process ⊠Y □N □ N/A application for which they would be used? [68.73(f)(3)] Prevention Program - Management Of Change [68.75] 34. Has the owner or operator established and implemented written procedures to manage changes to ⊠Y □N □ N/A process chemicals, technology, equipment, and procedures, and changes to stationary sources that

Program Level 3 Process Checklist

Facility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443 affect a covered process? [68.75(a)] At the time of the inspection, the management of change procedures were reviewed. In addition, a 2005 completed MOC #480 for the Water Chlorination System Equipment was reviewed. This MOC specified pipe changes, and a not-in-kind pressure gauge. 35. Do procedures assure that the following considerations are addressed prior to any change: ⊠Y □N □ N/A [68.75(b)]  $\boxtimes$  The technical basis for the proposed change? [68.75(b)(1)] ☑ Impact of change on safety and health? [68.75(b)(2)]  $\boxtimes$  Modifications to operating procedures? [68.75(b)(3)]  $\boxtimes$  Necessary time period for the change? [68.75(b)(4)] ☑ Authorization requirements for the proposed change? [68.75(b)(5)] 36. Were employees, involved in operating a process and maintenance, and contract employees, ⊠Y □N □ N/A whose job tasks would be affected by a change in the process, informed of, and trained in, the change prior to start-up of the process or affected parts of the process? [68.75(c)] 37. If a change resulted in a change in the process safety information, was such information updated □N □ N/A accordingly? [68.75(d)] 38. If a change resulted in a change in the operating procedures or practices, had such procedures or ⊠Y □N □ N/A practices been updated accordingly? [68.75(e)] Prevention Program - Pre-startup Safety Review [68.77] 39. Did the pre-startup safety review confirm that prior to the introduction of a regulated substance to a ⊠Y □N □ N/A process: [68.77(b)] ☑ Construction and equipment was in accordance with design specifications? [68.77(b)(1)] ☒ Safety, operating, maintenance, and emergency procedures were in place and were adequate? [68.77(b)(2)] 🗵 For new stationary sources, a process hazard analysis had been performed and recommendations had been resolved or implemented before startup? [68.77(b)(3)] ☑ Modified stationary sources meet the requirements contained in management of change? [68.77(b)(3)] ☑ Training of each employee involved in operating a process had been completed? [68.77(b)(4)] Prevention Program - Compliance audits [68.79] 1. Has the owner or operator certified that the stationary source has evaluated compliance with the ⊠Y □N □ N/A provisions of the prevention program at least every three years to verify that the developed procedures and practices are adequate and being followed? [68.79(a)] At the time of the inpsection, a Compliance audit completed by DEI on Jauary 12, 2001, for both the water treatment and the chlorine dioxide processes was reviewed. An additional audit was completed on August 25, 2003 for the R-8/Bleach Plant. The next compliance audit is due August 2006. Has the audit been conducted by at least one person knowledgeable in the process? [68.79(b)]  $\square$ Y  $\square$ N □ N/A John O'Brien conducted the audit. Are the audit findings documented in a report? [68.79(c)]  $\boxtimes Y$  $\square$ N □ N/A Has the owner or operator promptly determined and documented an appropriate response to each □Y ⊠N □ N/A of the findings of the audit and documented that deficiencies had been corrected? [68.79(d)] At the time of the inspection, documents were reviewed that documented recommendations for a compliance audit, but were not dated to show which compliance audit they reflected. The recommendation page should also include the date when things were actually completed. Has the owner or operator retained the two most recent compliance reports? [68.79(e)] ⊠Y □N □ N/A Prevention Program - Incident investigation [68.81]

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Facility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443 Has the owner or operator investigated each incident which resulted in, or could reasonably have ⊠Y □N □ N/A resulted in a catastrophic release of a regulated substance? [68.81(a)] At the time of the inspection, Incident Investigations reports were reviewed for a 1/27/2005 Chlorine leak from a flex hose, of less than 1 pound. Also a report was reviewed from a 6/23/2005 release of 2 lbs of Cl2 over 5 minutes. Were all incident investigations initiated not later than 48 hours following the incident? [68.81(b)]  $\boxtimes Y$ □N □ N/A Was an accident investigation team established and did it consist of at least one person  $\boxtimes Y$  $\square$ N □ N/A knowledgeable in the process involved, including a contract employee if the incident involved work of a contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident? [68.81(c)] Was a report prepared at the conclusion of every investigation?[68.81(d)]  $\boxtimes Y$ □ N/A Does every report include: [68.81(d)]  $\boxtimes Y$ □ N/A **■** Date of incident? [68.81(d)(1)] ☑ Date investigation began? [68.81(d)(2)]  $\boxtimes$  A description of the incident? [68.81(d)(3)]  $\boxtimes$  The factors that contributed to the incident? [68.81(d)(4)] Any recommendations resulting from the investigation? [68.81(d)(5)] Has the owner or operator established a system to address and resolve the report findings and ⊠Y □N □ N/A recommendations, and are the resolutions and corrective actions documented? [68.81(e)] Was the report reviewed with all affected personnel whose job tasks are relevant to the incident ⊠Y □N □ N/A findings including contract employees where applicable? [68.81(f)] Has the owner or operator retained the incident investigation reports for five years? [68.81(g)] ⊠Y □N □ N/A Section D - Employee Participation [68.83] Has the owner or operator developed a written plan of action regarding the implementation of the  $\boxtimes Y$ □ N/A employee participation required by this section?[68.83(a)] 2. Has the owner or operator consulted with employees and their representatives on the conduct and ⊠Y □N □ N/A development of process hazards analyses and on the development of the other elements of process safety management in chemical accident prevention provisions? [68.83(b)] Has the owner or operator provided to employees and their representatives access to process ⊠Y □N □ N/A hazards analyses and to all other information required to be developed under the chemical accident prevention rule? [68.83(c)] Section E - Hot Work Permit [68.85] Has the owner or operator issued a hot work permit for each hot work operation conducted on or ⊠Y □N □ N/A near a covered process? [68.85(a)] At the time of the inspection, the owner or operator stated that the only hot work conducted on the process was when the new vacuum system was put into place. Does the permit document that the fire prevention and protection requirements in 29CFR ⊠Y □N □ N/A 1910.252(a) have been implemented prior to beginning the hot work operations? [68.85(b)] Does the permit indicate the date(s) authorized for hot work and the object(s) upon which hot work is  $\boxtimes Y$ □ N/A to be performed? [68.85(b] Are the permits being kept on file until completion of the hot work operations? [68.85(b)]  $\boxtimes Y$ □ N/A Section F - Contractors [68.87]

Facil	lity Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443			
1. At wa fo th	Has the owner or operator obtained and evaluated information regarding the contract owner or operator's safety performance and programs when selecting a contractor? [68.87(b)(1)] It the time of the inspection, documentation for the North Shore Construction Company, Inc. as reviewed. Contract procedures were also reviewed, that were dated 2003. The forms used or qualification of North Shore Construction Company, Inc. do not reflect the forms included in the procedures dated 2003. The owner or operator must updated these procedures accordingly to reflect what is actually done at the facility.	ΣY	□N	□ N/A
2.	Informed contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process? [68.87(b)(2)]	⊠Y	ΠN	□ N/A
3.	Explained to the contract owner or operator the applicable provisions of the emergency response or the emergency action program? [68.87(b)(3)]	⊠Y	□N	□ N/A
4.	Developed and implemented safe work practices consistent with §68.69(d), to control the entrance, presence, and exit of the contract owner or operator and contract employees in the covered process areas? [68.87(b)(4)]	⊠Y	ΠN	□ N/A
Se	ection G - Emergency Response [68.90 - 68.95]			
re ha	omments: At the time of the inspection, the owner or operator stated that the facility is designated sponder. There are 9 employees Hazwop trained, annually by the MI Hazardous Association. These an Integrated Contingency Plan, which was reviewed at the time of the inspection. This plan is been at the facility and accessible throughout the plant. The local Fire Department has been at the facility.	e facility s also ility for a	st	□ N/A
Wa Ha 7/2 ac th	alkthrough, approximately 3 months ago. The facility has three emergency response vehicles, in azmat trailer on site. The Hazmat trailer was viewed during the inspection. At the time of the ins 29/2006 and 1/28/2006 SCBA and Escape inspections performed by Antonio Gutierrez were viewed didition July 31, 2006 vehicle inspection and month apparatus inspection forms were viewed. Mike Safety and Emergency Response manager is responsible for emergency response equipment is pair.	pection, ed. In e Wolffis,		d
Had The acceptance of the region 1.	azmat trailer on site. The Hazmat trailer was viewed during the inspection. At the time of the ins 29/2006 and 1/28/2006 SCBA and Escape inspections performed by Antonio Gutierrez were viewed didition July 31, 2006 vehicle inspection and month apparatus inspection forms were viewed. Mik he Safety and Emergency Response manager is responsible for emergency response equipment.	pection, ed. In te Wolffis, replaceme		d □ N/A
Had The acceptance of the region 1.	azmat trailer on site. The Hazmat trailer was viewed during the inspection. At the time of the instance of the	pection, ed. In te Wolffis, replaceme	ent an	
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Had The acceptance of the region 1.	azmat trailer on site. The Hazmat trailer was viewed during the inspection. At the time of the inspector and 1/28/2006 SCBA and Escape inspections performed by Antonio Gutierrez were viewed dition July 31, 2006 vehicle inspection and month apparatus inspection forms were viewed. Mike Safety and Emergency Response manager is responsible for emergency response equipment apair.  Is the facility designated as a "first responder" in case of an accidental release of regulated abstances"  1.a. If the facility is not a first responder:  1.a.(1) For stationary sources with any regulated substances held in a process above threshold quantities, is the source included in the community emergency response plan developed under 42 U.S.C. 11003? [68.90(b)(1)]  1.a.(2) For stationary sources with only regulated flammable substances held in a process above threshold quantities, has the owner or operator coordinated response actions with the local fire department? [68.90(b)(2)]	pection, ed. In the Wolffis, replacement  Y	ent an	□ N/A  ⊠ N/A

Program Level 3 Process Checklist

Facility Name: S. D. Warren Co. (SAPPI Ltd.) 2400 Lakeshore Drive, P.O. Box 0119, Muskegon, Mi 49443 4. Training for all employees in relevant procedures? [68.95(a)(3)] ⊠Y □N □ N/A At the time of the inspection, 8 hour refresher certificates were reviewed, dated 3/9/2006, for Mike Wolffis, Tom Porrit, Derek Schraoeder, David Freitas, Ed Bagaky, Shaw Quimbach, Josh Howell, and Tim Dickinson. 5. Procedures to review and update, as appropriate, the emergency response plan to reflect changes ⊠Y □N □ N/A at the stationary source and ensure that employees are informed of changes? [68.95(a)(4)] Did the owner or operator use a written plan that complies with other Federal contingency plan ☑ N/A regulations or is consistent with the approach in the National Response Team's Integrated Contingency Plan Guidance ("One Plan")? If so, does the plan include the elements provided in paragraph (a) of 68.95, and also complies with paragraph (c) of 68.95? [68.95(b)] 7. Has the emergency response plan been coordinated with the community emergency response plan ⊠Y □N □ N/A developed under EPCRA? [68.95(c)] Section H - Risk Management Plan [68.190 - 68.195] Has the owner or operator reviewed and updated the RMP and submitted it to EPA [68.190(a)]? □Y ⊠N □ N/A Reason for update. Five-year update. [68.190(b)(1)]Within three years of a newly regulated substance listing. [68.190(b)(2)] At the time a new regulated substance is first present in an already regulated process above threshold quantities. [68.190(b)(3)] At the time a regulated substance is first present in a new process above threshold quantities. [68.190(b)(4)] Within six months of a change requiring revised PHA or hazard review. [68.190(b)(5)] MOC #480 required a PHA to be conducted. A PHA was conducted on 2/7/2005 and within six months of this required date, the facility should of updated their RMP. Within six months of a change requiring a revised OCA as provided in 68.36. [68.190(b)(6)] As of August 18th, 2005, the facility no longer has chlorine dioxide on site and is required to update their revised OCA within six months of this change. Within six months of a change that alters the Program level that applies to any covered process. [68.190(b)(7)] If the owner or operator experienced an accidental release that met the five-year accident history □Y □N ⊠ N/A reporting criteria (as described at 68.42) subsequent to April 9, 2004, did the owner or operator submit the information required at 68.168, 68.170(j) and 68.175(l) within six months of the release or by the time the RMP was updated as required at 68.190, whichever was earlier. [68.195(a)] 3. If the emergency contact information required at 68.160(b)(6) has changed since June 21, 2004, did □Y ⊠N □ N/A the owner or operator submit corrected information within thirty days of the change? [68.195(b)] Tom Porrit is the emergency contact at the facility, Evert W. Vanderberg, who was specified in the submitted RMP is no longer at the company.

#### U.S. ENVIRONMENTAL PROTECTION AGENCY

RISK MANAGEMENT PROGRAM INSPECTION REPORT

FACILITY NAME AND ADDRESS	INSP. START DATE / TIME			RMP SUBMITTAL DA	TE:		
S. D. Warren Co.	08/10/2006, 9:00am		Initial: 06/18/1999				
2400 Lakeshore Drive	08/10/2000, 9:00am			Updates: 03/2001, 09/2001. 12/2001, 9/2007			
PO Box 0119	INSP. END DATE / TIME			Opulates. 03/2001, 03/20	01. 12/2	301, 3/2007	
	08/10/2006, 3:00pm						
Muskegon, MU 49443-0119							
RESPONSIBLE OFFICIAL	TITLE			PHONE NUMBER			
Monika Chrzaszcz	Environmental Engineer			(312) 886-0181			
FACILITY REPRESENTATIVE(S)	TITLE(S)			PHONE NUMBER(S)		CONTACTED	
Tom Porritt	Environmental Engineer			(617) 423-7300		X YES NO	
Mike Wolffis	Safety Manager	-					
Mike Theiler	Mill Manager						
	INSPECTION F	INDING	S				
(S = Satis)	factory, M = Marginal, U = Unsatisfacto	ory, N = N	Not Evaluat	ed, X = Not Applicable			
S Management System S	Haz Assess Back Up Docs	S	Training	g	S	Hot Work Permits	
S Hazard Assessment X	Five Year Accident	S	Mechan	ical Integrity	S	Contractors	
S OCA Parameters	History				S	Emergency	
	l	S	Manage	ement of Change	$\prod^{3}$	1 - 1	
S Offsite Impact Analysis M	Prevention Program	M	Compli	ance Audits	<u> </u>	Response	
S Alternative Release S	Process Safety	S			S	Certifications	
Scenario M	Hazard Analysis			Investigations	M	Implementation of	
S Review and Update M	SOP'S	S	Employ	ee Participation	11	Program	
·		ICA DII	1/EV/		<u> </u>		
	SECTION C: APPI	LICABIL	ITY	Linna		T 1	
Program Level	Regulated Substance			LEPC		Attachments	
Program Level 3	Chlorine			Allen County LEPC		Program Level 3 Process	
Trogram Bever B	Chlorine Dioxide					Checklist	
SE	CTION D: PROCESS DESCRIPTION (	Attach ac	ditional sho	eets if necessary)			
S. D. Warren Co. operates an integrated pulp and p					above the	hreshold quantities of RMP	

S. D. Warren Co. operates an integrated pulp and paper mill. The Pulp Mill and Utility Department operated two process units, which had above threshold quantities of RMP covered chemicals. Chlorine is used in the Utility Treatment Plant. Chlorine is received approximately every 3 weeks, 6-7 ton cylinders received per order. At the time of the inspection, it was noted that the facility no longer uses chlorine dioxide which supplied the Bleach Plan with 1.2% solution. Operation of chlorine dioxide ceased on August 18, 2005. The facility also stated that in April 2001, they stopped receiving chlorine rail cars because of too many chlorine byproducts. The chlorine process only allows for two chlorine cylinders to be online, one on standby at a time. The facility operates 24 hours a day, seven days a week, with security monitoring at all times. The facility has 258 employees, but plan to cut down their staff to 220 employees, 4 employees who actually work with the chlorine.

SECTION E: SUMMARY FINDINGS/COMMENTS (Attach additional sheets if necessary)

On August 10, 2006, a Risk Management Program inspection was conducted at the S.D. Warren Co. facility in Muskegon, MI. The purpose of the inspection was to determine the facilities compliance with the Risk Management Program, or CAA 112(r) regulations. Dave Freitas, Ken Callow, Mike Theiler, Ray Carlson, Eric Anderson, Dan Krieger, Tom Porritt, and Mike Wolffis greeted the inspector and were notified that the inspector would need to see documentation as well as take a walk through of the facility, especially taking note of the chlorine and chlorine dioxide process equipment.

The following recommendations and violations are being noted as a result of reviewing documentation and interviewing individuals during the RMP inspection:

-At the time of the inspection, it was noted that as of August 18<sup>th</sup>, 2005, the facility no longer used or had on site, chlorine dioxide. This process should be removed from the submitted RMP.

#### Management

-At the time of the inspection, an organization chart was available and was reviewed. The owner or operator should make sure that the organizational chart is updated accordingly to reflect employees currently responsible at the company.

#### Hazard Assessment - Offsite consequence Analysis

-The worst case release scenario analyzed the release of 6, 025 lbs. of chlorine dioxide over 60 minutes, within a diked area of 2, 741 squared meters. This was a release from the 60,194 gallon storage tank. As of August 18<sup>th</sup>, 2005, the facility no longer has chlorine dioxide on site, so the worst case release should reflect the largest vessel of chlorine, the only other process chemical on site that is above threshold quantities. This vessel would be the 2, 000 lb. vessel that chlorine is stored in. On September 5, 2006, US EPA received a letter that reflected information on the 2,000 lb. consequence analysis. This information must be updated in the facilities submitted RMP.

#### Prevention Program - Process Hazard Analysis

**68.67(e)** At the time of the inspection, the recommendations specified on the PHA that resulted from an MOC were addressed, but the recommendations from the January 10<sup>th</sup>, 2004 revalidation were not addressed. US EPA received a letter on September 5, 2006 that included the status of the January 10<sup>th</sup>, 2004 PHA recommendations. The owner or operator should maintain this status report as part of its records and make sure that all recommendations are addressed as soon as possible.

- The facility must make sure that PHA's are conducted at least every five years.

#### Prevention Program - SOP's

**68.69(c)** At the time of the inspection, there was documentation showing that the operating procedures were reviewed on 8/4/2006. Prior to that, the owner or operator stated that the procedures were reviewed after the 2005 HAZOP. The owner or operator does not have documentation that shows operating procedures are certified annually. US EPA received a letter on September 5, 2006 that included a Log of revisions and reviews of operating procedures. This long only includes dated from 2004-2006 and in 1994, when most of the procedures were first created. The owner or operator should keep a log of all annual certifications.

Prevention Program - Compliance Audits

68.79(d) At the time of the inspection, documents were reviewed that documented recommendations for a compliance audit, but were not dated to show which compliance audit they reflected. The recommendation page should also include the date when the recommendations were and if they were actually completed/addressed.

Risk Management Plan

**68.190(b)(5)** MOC #480 required a PHA to be conducted. A PHA was conducted on 2/7/2005 and within six months of this required date, the facility should have updated their RMP.

68.190(b)(6) At the time of the inspection, the owner or operator failed to update their RMP within six months of a change requiring a revised OCA. As of August 18<sup>th</sup> 2005, the facility no longer has chlorine dioxide on site.

**68.195(b)** At the time of the inspection, Tom Porrit is the emergency contact at the facility, Evert W. Vanderberg, who was specified in the submitted RMP, is no longer at the company. The owner or operator did not update emergency contact information within thirty days of the change in personnel.

At the conclusion of the inspection, an exit interview was conducted, notifying company representatives of areas of concern of the inspector. In addition, the inspector notified company representatives of contact information as well as possible enforcement actions that are available.

Names(s) and Signature Work Inspector(s) Age
Monika Chrzaszcz 18

Agency/Office/Telephone Number US EPA/ CEPPS/ (312) 886-0181

Date

November 15, 2006

ATTACHMENT#1					
PHOTOGRAPHS					
SUBJECT Chlorine cylinder storage area, all seven cylinders were full.					
FACILITY S.D. Warren Co. (	SAPPI Ltd.).	2400 Lakeshore [	Orive, P.O. Box	c 0119. Musk	egon. MI 49443
PHOTOGRAPHER Monika Chrzaszcz			WITNESSES Tom Porritt. Mike Tyler. Mike Wolffis		
DATE August 10, 2006	<b>TIME</b> 9:30am	DIRECTION	CAMERA	FILM	PHOTOGRAPH NO.

