

Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*
Mark R. Vickery, P.G., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 17, 2012

Bridget Bohac, Chief Clerk
Texas Commission on Environmental Quality
Office of the Chief Clerk (MC-105)
P.O. Box 13087
Austin, Texas 78711-3087

RE: Sherwin Alumina Company, LLC
TCEQ DOCKET NO. 2011-1215-AIR

Dear Ms. Bohac:

Enclosed is a copy of the following documents for inclusion in the background material for the Commissioner's Agenda scheduled for this permit application:

- The compliance summary of the Applicant; and
- The summary of the technical review of the permit application; and
- A copy of the draft permit Special Conditions.

Please do not hesitate to call me at 512-239-1439 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Betsy Peticolas".

Betsy Peticolas
Staff Attorney
Texas Commission on Environmental Quality
Environmental Law Division



Main Query Page Program Area Search

Compliance History					
RE Name:	SHERWIN ALUMINA PLANT			RN:	RN102318847
Classification:	AVERAGE	Rating:	4.33	Publication Date:	Oct 1, 2011
Customer Name	Sherwin Alumina Company, LLC			CN:	CN603527359
Classification:	AVERAGE	Rating:	4.49	Publication Date:	Oct 10, 2010
Repeat Violator Ind:	NO				

Compliance History Start: 12/06/2010 End: 12/06/2005 **Submit**

1-12 of 12 Enforcement Action Records

Enforcement Actions				
Type	Effective Date	Citation/Requirement Provision	Abbv. Description	Violation Classification (Trk No)
ADMINORDER	Aug 10, 07	30 TAC Chapter 111, SubChapter A 111.111(a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter D 382.086(b); PERMIT Special Condition No. 7; PERMIT Special Condition No. 1	Failure to comply with the Maximum Allowable Emission Rates Table. Specifically, Sherwin Alumina exceeded the Particulate Matter limit from Emission Point No. 12, Source Name Klin 8 Stack - ESP by greater than 16 percent.	MODERATE (181401)
ADMINORDER	Aug 10, 07	30 TAC Chapter 111, SubChapter A 111.111(a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter D 382.086(b); PERMIT Special Condition No. 7; PERMIT Special Condition No. 1	Failure to satisfy all demonstrations criteria as listed under 30 TAC 101.222 and gain regulatory authority for the emissions released from an emissions event, Incident No. 26867, that occurred on August 31, 2003.	MODERATE (182398)
ADMINORDER	Apr 29, 06	30 TAC Chapter 111, SubChapter A 111.111(a)(1)(C); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter A 382.086(b); PERMIT Special Condition No. 4; PERMIT Special Condition No. 1	Failed to prevent an avoidable emissions event that occurred on April 2, 2006.	MODERATE (211694)
ADMINORDER	Aug 10, 07	30 TAC Chapter 111, SubChapter A 111.111(a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter D 382.086(b); PERMIT Special Condition No. 7; PERMIT Special Condition No. 1	Failure to comply with the Maximum Allowable Emission Rates Table attached to the permit. Specifically, Sherwin Alumina exceeded the Particulate Matter limit from Emission Point No. 32, Klin 1 Hydrate Dryer-ESP by greater than 16 percent.	MODERATE (182636)
ADMINORDER	Dec 4, 08	30 TAC Chapter 111, SubChapter A 111.111(a)(4); 30 TAC Chapter 116, SubChapter B 116.116(o); 30 TAC Chapter 116, SubChapter F 116.616; 6C THS Chapter 382.086(b); OP FOP Number O-01469	Failed to adhere to permit limitations for opacity emissions and permitted limits for particulate matter. Specifically, TCEQ Air Permit 48456 states that opacity emissions from the Klin 8 ESP stack shall not exceed 20% avg over a 6 minute period, and the quantity of emissions released from the Klin 8 ESP stack shall not exceed 9.76 lbs/hr. On March 10, 2006, the Klin 8 ESP stack was documented to be operating at 63.7% opacity over a 6 hr and 31 min period and released 6.2 lbs of alumina dust.	MODERATE (311663)
ADMINORDER	Dec 4, 08	30 TAC Chapter 111, SubChapter A 111.111(a)(4); 30 TAC Chapter 116, SubChapter B 116.116(o); 30 TAC Chapter 116, SubChapter F 116.616; 6C THS Chapter 382.086(b); OP FOP Number O-01489; PERMIT Permit 48456	Failed to adhere to permit limitations for opacity emissions and permitted limits for particulate matter. Specifically, TCEQ Air Permit 48456 states that opacity emissions from the Klin 8 ESP stack shall not exceed 20% avg over a 6 min period, and the quantity of emissions released from the Klin 8 ESP stack shall not exceed 9.76 lbs/hr. On January 15, 2008, the Klin 8 ESP stack was documented to be operating at 99.1% opacity over a 20 minute period and released 66 lbs of alumina hydrate dust.	MODERATE (311644)
ADMINORDER	Apr 29, 08	30 TAC Chapter 101, SubChapter A 101.201(i); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter A 382.086(b); 40 CFR Chapter 60, SubChapter C, PT 60, SubPT A 60.11(d); PERMIT Special Condition No. 2	Failed to maintain and operate an affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Specifically, the emission event that occurred on April 2, 2006 was due to an inadequate alarm system.	MODERATE (211702)
ADMINORDER	Dec 4, 08	30 TAC Chapter 111, SubChapter A 111.111(a)(4); 30 TAC Chapter 116, SubChapter B 116.116(o); 30 TAC Chapter 116, SubChapter F 116.616; 6C THS Chapter 382.086(b); PERMIT Permit 48456; OP FOP No. O-01489	Failed to adhere to permit limitations for opacity emissions and permitted limits for particulate matter. Specifically, TCEQ Air Permit 48456 states that opacity emissions from the Klin 8 ESP stack shall not exceed 20% avg over a 6 min period, and the quantity of emissions released from the Klin 8 ESP stack shall not exceed 9.76 lbs/hr. On January 22, 2008, the Klin 8 ESP stack was documented to be operating at 44.8% opacity over a 13 minute period and released 16.9 lbs of alumina hydrate dust.	MODERATE (311649)
ADMINORDER	Dec 4, 08	30 TAC Chapter 111, SubChapter A 111.111(a)(4); 30 TAC Chapter 116, SubChapter B 116.116(o); 30 TAC Chapter 116, SubChapter F 116.616; 6C THS Chapter 382.086(b); OP FOP Number O-01489; PERMIT TCEQ Air Permit Number 48456	Failed to adhere to permit limitations for opacity emissions and permitted limits for particulate matter. Specifically, TCEQ Air Permit 48456 states that opacity emissions from the Klin 8 ESP stack shall not exceed 20% avg over a 6 minute period, and the quantity of emissions released from the Klin 8 ESP stack shall not exceed 9.76 lbs/hr. On March 6, 2008, the Klin 8 ESP stack was documented to be operating at 44.1% opacity over a 49 minute period and released 1.3 lbs of alumina hydrate dust.	MODERATE (311652)
ADMINORDER	Aug 10, 07	30 TAC Chapter 101, SubChapter F 101.201(a)(2)(i); 6C THS Chapter 382, SubChapter D 382.086(b)	Failure to meet the minimum reporting requirements for a reportable emissions event.	MINOR (181386)
ADMINORDER	Aug 10, 07	30 TAC Chapter 111, SubChapter A 111.111(a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(o); 6C THS Chapter 382, SubChapter D 382.086(b); PERMIT Special Conditions 1 and 7	Failure to prevent an unauthorized emissions event which occurred on May 28, 2004 from EPN 12.	MODERATE (182630)
ADMINORDER	Aug 10, 07	30 TAC Chapter 101, SubChapter F 101.201(a)(2)(H); 6C THS Chapter 382, SubChapter D 382.086(b)	Failure to meet the minimum reporting requirements for reportable emissions events on August 31, 2003, May 11 and 29, 2004.	MINOR (182802)

0 convictions returned

Criminal Convictions

Conviction Date	Number of		Violations		
	Felonies	Misdemeanors	Citation/Requirement Provision	Abb. Description	Classification (Trk No)

0 events returned

Chronic Excessive Emissions Events			
Start Date	Status Code	Status Date	Track Number

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Investigations		
Investigation Start Date	Type	Investigation Status Date
Sep 7, 2006	Compliance Invest File Review	Dec 13, 2006
Dec 30, 2006	Compliance Invest File Review	Jan 11, 2006
Dec 27, 2006	Compliance Invest File Review	Jan 20, 2006
Dec 27, 2006	Compliance Invest File Review	Jan 23, 2006
Jan 9, 2006	Compliance Invest File Review	Jan 28, 2006
Feb 9, 2006	Compliance Invest File Review	Feb 21, 2006
Mar 13, 2006	Compliance Invest File Review	Mar 27, 2006
Mar 13, 2006	Compliance Invest File Review	Mar 27, 2006
Mar 13, 2006	Compliance Invest File Review	Mar 27, 2006
Mar 20, 2006	Compliance Invest File Review	Apr 10, 2006
Apr 7, 2006	Compliance Invest File Review	Apr 18, 2006
Apr 7, 2006	Compliance Invest File Review	Apr 13, 2006
Apr 10, 2006	Compliance Invest File Review	Apr 13, 2006
Mar 14, 2006	Compliance Invest File Review	Apr 17, 2006
Apr 19, 2006	Compliance Invest File Review	Apr 25, 2006
Apr 27, 2006	Compliance Invest File Review	May 30, 2006
Jul 14, 2006	Compliance Invest File Review	Jul 19, 2006
Jul 24, 2006	Compliance Invest File Review	Aug 2, 2006
Aug 7, 2006	Compliance Invest File Review	Aug 16, 2006
Jul 14, 2006	Compliance Invest File Review	Aug 16, 2006
Jul 17, 2006	Compliance Invest File Review	Aug 21, 2006
Jul 8, 2006	Compliance Invest File Review	Aug 30, 2006
Sep 1, 2006	Compliance Invest File Review	Sep 13, 2006
Sep 14, 2006	Compliance Invest File Review	Sep 25, 2006
Jan 5, 2006	Compliance Invest File Review	Oct 2, 2006
Sep 27, 2006	Compliance Invest File Review	Oct 2, 2006
Oct 2, 2006	Compliance Invest File Review	Oct 18, 2006
Sep 29, 2006	Compliance Invest File Review	Oct 10, 2006
Aug 16, 2006	Compliance Invest File Review	Oct 31, 2006
Sep 8, 2006	Compliance Invest File Review	Nov 1, 2006
Sep 1, 2006	Compliance Invest File Review	Nov 17, 2006
Nov 27, 2006	Compliance Invest File Review	Dec 14, 2006
Sep 1, 2006	Compliance Invest File Review	Dec 22, 2006
Dec 6, 2006	Compliance Invest File Review	Dec 26, 2006
Oct 20, 2006	Compliance Invest File Review	Jan 5, 2007
Dec 18, 2006	Compliance Invest File Review	Jan 17, 2007
Oct 6, 2006	Compliance Invest File Review	Jan 23, 2007
Dec 20, 2006	Compliance Invest File Review	Jan 26, 2007
Oct 27, 2006	Compliance Invest File Review	Jan 31, 2007
Jan 30, 2007	Compliance Invest File Review	Jan 31, 2007
Jan 31, 2007	Compliance Invest File Review	Feb 1, 2007
Oct 26, 2006	Compliance Invest File Review	Feb 2, 2007
Feb 2, 2007	Compliance Invest File Review	Feb 12, 2007
Feb 7, 2007	Compliance Invest File Review	Feb 15, 2007
Feb 9, 2007	Compliance Invest File Review	Feb 16, 2007
Feb 9, 2007	Compliance Invest File Review	Feb 16, 2007
Feb 9, 2007	Compliance Invest File Review	Feb 16, 2007
Jan 20, 2007	Compliance Invest File Review	Mar 1, 2007
Mar 14, 2007	Compliance Invest File Review	Apr 4, 2007

Apr 2, 2007	Compliance Invest File Review	Apr 13, 2007
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Investigations: (Page 1 2 3 4 1-50 of 140 Records)

1-32 of 32 Notice of Violation Records

Notice of Violations					
NOV Date	Status Code	Citation	Allegation	Classification (Trk No)	Self-Report
Dec 21, 2006	RESOLVED	30 TAC Chapter 116, SubChapter B 116.116 (a)	Failure to test Kiln 5 (EPN12) per EPA reference Method 28A outlined in 40 CFR Part 60. The submitted report shows that the sample was analyzed for VOCs on a dry basis when the method requires a wet basis.	MODERATE (260173)	NO
Feb 8, 2007	RESOLVED	30 TAC Chapter 101, SubChapter F 101.201 (a)(1)(B)	Failure to submit an initial notification for a reportable emissions event within 24 hours after the discovery. Specifically, the initial notification was made 18 hours and 25 minutes after the 24 hours.	MODERATE (260116)	NO
Jun 26, 2007	RESOLVED	30 TAC Chapter 101, SubChapter A 101.20 (1); 30 TAC Chapter 111, SubChapter A 111.11(a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(a); 40 CFR Chapter 60, SubChapter C, PT 60, SubPT UUU 60.732; PERMIT Special Condition 7; PERMIT Special Condition 3	Failure to prevent the occurrence of visible emissions released with an opacity of greater than 20 percent averaged over a six-minute period and greater than 10 percent.	MODERATE (278240)	NO
Dec 11, 2007	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115 (c); PERMIT TCEQ Air Permit Number 48455	Failure to gain an affirmative defense for alumina hydrate dust released and opacity exceedances at the Calcination Process Unit Kiln Number 5 (50-k-5) during emissions events (Incident Numbers 93496 and 97508) which were discovered on July 2, and September 14, 2007, at 1637 hours and 1661 hours, respectively.	MODERATE (298064)	NO
May 30, 2008	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115	SC 24(E) states in part two copies of the final sampling report shall be forwarded to the TCEQ within 45 days after sampling is completed. The sampling was performed on September 19, 2007 but the report was received by the TCEQ Corpus Christi Regional Office on February 18, 2008. The final report due date based on the above information should have been November 3, 2007. Therefore, the report was submitted 453 days after the completion of testing which is a violation of Permit No. 48455, SC 24E.	MINOR (335093)	NO
Jun 5, 2008	RESOLVED	30 TAC Chapter 111, SubChapter A 111.111 (a)(1)(A); 30 TAC Chapter 116, SubChapter B 116.116(b); 30 TAC Chapter 116, SubChapter B 116.116(c); 30 TAC Chapter 122, SubChapter B 122.143(4); 6C THSC Chapter 382.382.085(b); OP Special Terms and Conditions No. 2	Failure to adhere to permit limitations for opacity. Specifically, Sherwin Alumina's Gregory Plant failed to prevent visible emission from exceeding 30 and 20 percent opacity averaged over a six-minute period. Sherwin Alumina's Gregory Plant failed to meet the affirmative defense by failure to satisfy the demonstration criteria in 30 TAC §101.222(b)(2), (b)(3), (b)(4), and (b)(9) for Incident Nos. 104141, 106886, 106881, 106283, 106812, and 106838.	MODERATE (336860)	NO
Jun 5, 2008	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PERMIT TCEQ Air Permit No. 48455, SC 1 and GC 8	Failure to gain regulatory authority for contaminants released from the #8 Kiln ESP on February 24, 2008 and April 4th, 6th, 12th, 20th, and 21st, 2008, as reported in Incident Nos. 104141, 106881, 106886, 106283, 106812, and 106838. The demonstration criteria in 30 TAC §101.222(b), specifically (2), (3), (4), and (9), were not met, therefore the total estimated 11.5 pounds of alumina hydrate dust emitted during the six events was unauthorized.	MODERATE (336911)	NO
Jun 5, 2008	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PERMIT TCEQ Air Permit No. 48455, SC 17 & 18	Failure to maintain the #8 Kiln ESP's (FIN: 50-k-8) outer housing free of holes, cracks, and other conditions that would reduce the collection efficiency of the emission capture system. Additionally, Sherwin Alumina's Gregory Plant failed to perform cleaning and maintenance of the #8 Kiln ESP, as necessary, to ensure that the equipment efficiency can be adequately maintained.	MODERATE (336916)	NO
Dec 2, 2008	RESOLVED	30 TAC Chapter 101, SubChapter F 101.201 (a)(1); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PA Special Condition No. 13	Failure to notify the TCEQ Region 14 Office of a reportable emissions event within 24 hours after the discovery.	MODERATE (348859)	NO
Dec 2, 2008	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PA General Condition No. 6; PA Special Condition No. 1	Failure to prevent unauthorized emissions during an emissions event at the No. 2 GSC that occurred on June 10, 2008. Specifically, Sherwin Alumina released 4.30 pounds of alumina dust during the event at an average opacity of 36.40%.	MODERATE (348861)	NO
Dec 2, 2008	RESOLVED	30 TAC Chapter 111, SubChapter A 111.111 (a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PA Special Condition No. 4	Failure to maintain an opacity not to exceed 7 percent (%) over a six-minute period at the No. 2 GSC, as required by SC 4 of the affected air permit. Furthermore, the average opacity of 36.40% from the calciner's electrostatic precipitator (ESP) stack (Emission Point Number 60) exceeded the 20 % allowed by state rule.	MODERATE (348869)	NO
May 26, 2010	RESOLVED	30 TAC Chapter 290, SubChapter D 290.46(e) (3)(A) (Not applicable to CH)	Failure by a purchased water system serving no more than 250 connections to employ an operator who holds a Class "D" or higher license.	MODERATE (399391)	NO
May 28, 2010	RESOLVED	30 TAC Chapter 290, SubChapter D 290.46(e) (2)(C)(i) (Not applicable to CH)	Failure to verify the accuracy of manual disinfectant residual analyzers at least once every 30 days using chlorine solutions of known concentrations.	MINOR (399392)	NO
May 28, 2010	RESOLVED	30 TAC Chapter 290, SubChapter D 290.46(e) (Not applicable to CH)	Failure to use accurate testing equipment or some other means of monitoring the effectiveness of any chemical treatment or pathogen inactivation process.	MINOR (399393)	NO
May 28, 2010	RESOLVED	30 TAC Chapter 290, SubChapter D 290.46 (m)(1) (Not applicable to CH)	Failure to inspect each of the system's ground, elevated, and pressure tanks by water system personnel or a contracted inspection service.	MINOR (399394)	NO
May 28, 2010	RESOLVED	30 TAC Chapter 290, SubChapter D 290.44(n) (4) (Not applicable to CH)	Failure to locate the top of the waterline no less than 24 inches below ground surface.	MINOR (399395)	NO
May 28, 2010	ACTIVE	30 TAC Chapter 290, SubChapter D 290.46 (m) (Not applicable to CH)	Failure by a public water system to use maintenance and housekeeping practices to ensure the good working condition and general appearance of the system's facilities and equipment.	MINOR (399424)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 116, SubChapter B 116.115 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PERMIT NSR Permit 19732, SC #1	Failure to prevent unauthorized emissions to the atmosphere during an emissions event that occurred on May 8, 2010, TCEQ incident No. 139489. Specifically, Sherwin Alumina, LP released 7.5 pounds of alumina hydrate dust from the No. 1 Gas Suspension Calciner (EPN: 70).	MODERATE (399551)	NO
May 28, 2010	ACTIVE	30 TAC Chapter 290, SubChapter D 290.43(o) (3) (Not applicable to CH)	Failure to ensure overflows are designed in strict accordance with current American Water Works Association (AWWA) standards and terminate with a gravity-hinged and weighted cover.	MINOR (399660)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 111, SubChapter A 111.111 (a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.085 (b); PERMIT Special Condition No. 5	Failure to prevent emissions of opacity greater than 7 percent averaged and greater than 20 percent, averaged over a six-minute period, during an emissions event that occurred on May 8, 2010, TCEQ incident No. 139489. Specifically, Sherwin Alumina, LP released alumina hydrate dust emissions with a highest six-minute average opacity of 62 percent.	MODERATE (401139)	NO

Jun 22, 2010	RESOLVED	30 TAC Chapter 101, SubChapter F 101.201 (c); 6C THSC Chapter 382.382.086(b)	Failure to submit the final report within two weeks for an emissions event that occurred on May 8, 2010 (TCEQ Incident No. 139480). Specifically, the incident ended at 4:18 p.m. on May 8, 2010. Sherwin Alumina, LP submitted the final report on May 26, 2010 at 8:58 a.m.	MINOR (401146)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 116, SubChapter B 116.116 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.086 (b); PERMIT Special Condition No. 1 & MAERT	Failure to prevent unauthorized emissions to the atmosphere during an emissions event that occurred on May 8, 2010, TCEQ Incident No. 139471. Specifically, Sherwin Alumina, LP released 0.2 pounds of alumina hydrate dust from the No. 2 GSC (EPN: 80).	MODERATE (401160)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 111, SubChapter A 111.111 (A)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.086 (b); PERMIT Special Condition No. 5	Failure to prevent emissions of opacity greater than 7 percent and greater than 20 percent, averaged over a six-minute period, over a six-minute period during an emissions event that occurred on May 8, 2010, TCEQ Incident No. 139471. Specifically, Sherwin Alumina, LP released alumina hydrate dust emissions with a highest six-minute average opacity of 65.8 percent.	MODERATE (401166)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 101, SubChapter F 101.201 (c); 6C THSC Chapter 382.382.086(b)	Failure to submit the final report within two weeks for an emissions event that occurred on May 8, 2010, TCEQ Incident No. 139471. Specifically, the incident ended at 4:30 p.m. on May 8, 2010. Sherwin Alumina, LP submitted the final report on May 26, 2010 at 9:03 a.m.	MINOR (401200)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 116, SubChapter B 116.116 (b); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.086 (b); PA General Condition (GC) 8; PA Special Condition (SC) No. 1	Failure to prevent unauthorized emissions during an incident at the No. 1 GSC that occurred on February 23, 2010.	MODERATE (401681)	NO
Jun 22, 2010	RESOLVED	30 TAC Chapter 111, SubChapter A 111.111 (a)(1)(B); 30 TAC Chapter 116, SubChapter B 116.116(c); 6C THSC Chapter 382.382.086 (b); PA SC No. 4	Failure to maintain an opacity not to exceed 7% averaged over a six-minute period at the No. 1 GSC, as required by SC 4 of the affected air permit. Furthermore, the average opacity of 27.60% from the calciner's electrostatic precipitator (ESP) stack (Emission Point Number 70) exceeded the 20% allowed by state rule.	MINOR (401684)	NO
Sep 8, 2010	RESOLVED	30 TAC Chapter 116, SubChapter B 116.116 (c); 30 TAC Chapter 122, SubChapter B 122.143(A); 6C THSC Chapter 382.382.086 (b); OP Special Terms and Conditions No. 8; PERMIT Special Condition No. 21	Failure to comply with the 2,000 tons per hour (tph) bauxite handling limit at the Marine Terminal (EPN: 5F) and dock conveyor, as specified in New Source Review Permit Number 48465, Special Condition Number 21. Specifically, on February 4, 2009, Sherwin Alumina LP's bauxite unloading rate averaged 2,271 tph for one hour and on May 31, 2009, the bauxite unloading rate averaged 2,061 tph for one hour.	MODERATE (410130)	NO
Sep 8, 2010	RESOLVED	30 TAC Chapter 122, SubChapter B 122.146 (2)(A); 30 TAC Chapter 122, SubChapter B 122.146(B); 6C THSC Chapter 382.382.086 (b); OP General Terms and Conditions	Failure to include all instances of deviations, the probable cause of the deviations, and any corrective actions or preventative measures taken for each emission unit addressed in the permit. Specifically, deviations occurred on February 4, 2009 and May 31, 2009 (concerning bauxite handling limits) which were not included in the first semiannual deviation report due July 30, 2009. Additionally, the POC failed to include or reference these deviations yielding an incomplete report.	MINOR (410861)	NO
Sep 8, 2010	RESOLVED	30 TAC Chapter 122, SubChapter B 122.143 (A); 30 TAC Chapter 122, SubChapter B 122.146(B)(D); 6C THSC Chapter 382.382.086 (b); OP General Terms and Conditions	Failure to certify all terms and conditions for which compliance was not achieved. Specifically, Sherwin Alumina, L.P. failed to appropriately certify (no evidence of Form OP-OR01, Certification by Responsible Official) the first semiannual deviation reporting period of January 1, 2009 through June 30, 2009. Additionally, failure to certify the semiannual deviation report results in an incomplete and incorrectly certified POC.	MINOR (410868)	NO
Mar 29, 2010	ACTIVE	30 TAC Chapter 290, SubChapter F 290.109 (c)(2)(A)(I) (Not applicable to GH)	TCR Routine Monitoring Violation 02/2010 - Failure to collect any routine monitoring sample(s).	MODERATE (434520)	NO
Jul 22, 2010	ACTIVE	30 TAC Chapter 290, SubChapter F 290.109 (c)(3)(A)(II) (Not applicable to GH)	TCR Repeat Monitoring Violation 06/2010 - Failure to collect all repeats following a coliform found result.	MODERATE (434976)	NO
Aug 31, 2010	ACTIVE	30 TAC Chapter 290, SubChapter F 290.109 (c)(2)(F) (Not applicable to GH)	TCR Increase Monitoring Violation 07/2010 - Failure to collect all 5 distribution samples following a coliform found month.	MODERATE (434978)	NO

1-0 of 0 Environmental Audit Records

Environmental Audits				
Notice of Audit Date	Disclosure Of Violation			
	DOV Date	Violations		
		Classification	Citation/Requirement Provision	Abbv. Description

0 systems returned

Environmental Management Systems			
Type	Tier	Certification Date	Implementation Date

0 assessments returned

Voluntary On-Site Compliance Assessments		
Start Date	Status Code	Status Date

0 programs returned

Voluntary Pollution Reduction Programs		
Name	Level	Start Date of Participation

0 early compliance actions returned

Early Compliance	
Date	Description

For questions or comments regarding this T-Net page contact: [Central Registry](#)
This site was last modified: August 23, 2010

Permit Renewal Source Analysis & Technical Review

Company	Sherwin Alumina Company, LLC	Permit Number	46868
City	Gregory	Project Number	161836
County	San Patricio	Account Number	SD-0037-N
Project Type	Renewal	Regulated Entity Number	RN102318847
Project Reviewer	Ms. Mary Hamann/ Mr. Bill Moody, P.E.	Customer Reference Number	CN603527359
Site Name	Alumina Facility		

Project Overview

Sherwin Alumina Company, LLC has requested a renewal of permit number 46868 which authorizes the red scale handling and stockpiles at their alumina facility located near Gregory, San Patricio County. No changes were requested to the emission rates during this renewal. However, the permit was revised on March 28, 2011 (after this renewal application was received) to remove emission point number 1, which reduced the particulate matter (PM) and PM₁₀ emissions from the facility.

Emission Summary

Air Contaminant	Current Allowable Emission Rates (TPY)	Proposed Allowable Emission Rates (TPY)	Change in Allowable Emission Rates (TPY)
PM	20.34	20.34	0.00
PM ₁₀	10.18	10.18	0.00

Compliance History Evaluation - 30 TAC Chapter 60 Rules

A compliance history report was reviewed on:	February 7, 2011
Compliance period:	December 6, 2005 - December 6, 2010
Site rating & classification:	Average, 4.49
Company rating & classification:	Average, 4.49
Has the permit changed on the basis of the compliance history or rating?	No

Public Notice Information - 30 TAC Chapter 39 Rules

Rule Citation	Requirement	
39.403	Date Application Received:	December 6, 2010
	Date Administratively Complete:	December 13, 2010
	Small Business Source?	No
	Date Leg Letters mailed:	December 13, 2010
39.603	Date Published:	January 7, 2011
	Publication Name:	<i>Corpus Christi Caller Times</i>
	Pollutants:	PM, PM ₁₀ , PM _{2.5}
	Date Affidavits/Copies Received:	January 21, 2011
	Is bilingual notice required?	No, bilingual programs are not required at the nearest elementary or middle school
39.604	Date Certification of Sign Posting / Application Availability Received:	January 31, 2011
	Public Comments Received?	Yes
	Hearing Requested?	Yes
	Meeting Request?	No
	Date Response to Comments sent to OCC:	July 18, 2011
	Consideration of Comments:	Modification of permit was not necessary after consideration of comments.

**Permit Renewal
Source Analysis & Technical Review**

Permit No. 46868
Page 2

Regulated Entity No. RN102318847

Rule Citation	Requirement	
	Is 2nd Public Notice required?	Yes
39.419	Date 2nd Public Notice/Preliminary Decision Letter Mailed:	March 21, 2011
39.603	Date Published:	April 2, 2011
	Publication Name:	<i>Corpus Christi Caller Times</i>
	Pollutants:	PM, PM ₁₀ , PM _{2.5}
	Date Affidavits/Copies Received:	April 13, 2011
	Is bilingual notice required?	No, bilingual programs are not required at the nearest elementary or middle school
	Date Certification of Sign Posting / Application Availability Received:	May 13, 2011
	Public Comments Received?	No
	Meeting Request?	No
	Hearing Request?	No

Renewal Requirements - 30 TAC Chapter 116 Rules

Rule Citation	Requirement	
116.315(a)	Date of permit expiration:	May 10, 2011
116.310	Date written notice of review was mailed:	April 9, 2010
116.315(a)	Date application for Renewal (PI-1R) received:	December 6, 2010
116.311(a)(3)	Subject to NSPS?	No, NSPS does not apply since the site is not an affected facility under 40 CFR Part 60.
116.311(a)(4)	Subject to NESHAPS?	No, NESHAPS do not apply since the facility does not emit any air contaminants regulated under 40 CFR Part 61.
116.311(a)(5)	Subject to NESHAPS (MACT) for source categories?	No, this facility is not subject to NESHAPS (MACT) for source categories since the facility is not one of the listed source categories regulated under 40 CFR 63.
116.311(a)(6)	Does this project require case-by-case MACT?	N/A
116.311(b)	Was there a condition of air pollution that had to be addressed during this project review?	No
116.314(a)	Does the facility meet all permit renewal requirements?	Yes
116.313	Permit Renewal Fee: \$1136.90 Fee certification:	Fee Receipt R109517

Request for Comments

Received From	Program/Area Name	Reviewed By	Comments
Region:	14	Mr. Sonny Lopez	No objections.

Process/Project Description

The red scale material produced in the plant is collected and stored in stockpiles. The material is approximately 20-25% moisture. The scale is transferred to a crusher and then transferred to a rod mill, where it is mixed with caustic liquor and ground to produce a slurry. The slurry is then used in the Bayer process to recover the alumina.

Permit Renewal
Source Analysis & Technical Review

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Regulated Entity No. RN102318847

Pollution Prevention, Sources, and Controls - [30 TAC 116.311(b)(2)]

The PM and PM₁₀ emissions from the scale screen and stockpiles are controlled by water sprays, which meets current best available control technology (BACT).

Permit Concurrence and Related Authorization Actions

Is the applicant in agreement with special conditions?	Yes
Company representative(s):	Ms. Sandra Bailey, Environmental Manager, Sherwin Alumina Company LLC
Contacted Via:	Email
Date of contact:	February 7, 2011
Other permit(s) or permits by rule affected by this action:	No

Project Reviewer	Date	Team Leader/Section Manager/Backup	Date
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SPECIAL CONDITIONS

Permit Number 46868

EMISSION LIMITATIONS

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission rates and other conditions specified in the table.

OPACITY/VISIBLE EMISSION LIMITATIONS

2. Opacity of particulate matter emissions from any transfer point on belt conveyors or any screen shall not exceed 10 percent. Determination of compliance with this requirement shall be made by first observing for visible emissions during normal plant operations. Observations shall be made at least 15 feet and no more than 0.25 mile from the emission point. If visible emissions are observed from the emission point, opacity shall be determined using the U.S. Environmental Protection Agency (EPA) Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60), Appendix A, Test Method 9. Contributions from uncombined water vapor shall not be included in determining compliance with this condition. Determination of compliance with this requirement shall be performed and the results recorded quarterly. (03/11)
3. There shall be no visible fugitive emissions leaving the property from the screens, transfer points on belt conveyors, material storage or feed bins, or stockpiles. Observations for visible emissions shall be performed and recorded quarterly. The visible emissions determination shall be made during normal plant operations. Observations shall be made on the downwind property line for a minimum of six minutes. If visible emissions are observed, an evaluation must be accomplished in accordance with the EPA 40 CFR Part 60, Appendix A, Test Method 22, using the criteria that visible emissions shall not exceed a cumulative 30 seconds in duration in any six-minute period. If visible emissions exceed the Test Method 22 criteria, corrective action to eliminate the source of excessive visible emissions shall be taken promptly and documented within 24 business hours of first observing the visible emissions. (03/11)

OPERATIONAL LIMITATIONS, WORK PRACTICES, AND PLANT DESIGN

4. Emission rates are based on and the facilities shall be limited to a maximum hourly throughput of 120 tons per hour and a maximum annual throughput of 88,000 tons per year of red scale.

SPECIAL CONDITIONS

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5. Permanently mounted spray bars shall be installed at the inlet and outlet of all crushers, at all shaker screens, and at all material transfer points. Area-type water sprays shall be installed at all stockpiles and active work areas. All water spray systems shall be operated as necessary to minimize dust emissions from this facility.
6. All in-plant roads, stockpiles, truck loading and unloading areas, parking areas, and other traffic areas shall be sprinkled with water, and/or be treated with effective dust suppressant(s), and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all Texas Commission on Environmental Quality (TCEQ) rules and regulations.

DETERMINATION OF COMPLIANCE

7. Upon request by the TCEQ Executive Director or the TCEQ Regional Director having jurisdiction, the holder of this permit shall perform high volume air sampling, one and/or three hour tests, as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere to demonstrate compliance with the maximum allowable emission rates table and with emission performance levels as specified in the special conditions and/or otherwise prove satisfactory equipment performance. Sampling must be conducted in accordance with the TCEQ Sampling Procedures Manual or in accordance with the applicable EPA 40 CFR procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director or the appropriate TCEQ Regional Director prior to conducting sampling.

RECORDKEEPING REQUIREMENTS

8. Records shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be totaled for each calendar month, retained for a rolling 24-month period, and include the following: (03/11)
 - A. Hourly and annual throughputs;
 - B. Quarterly observations for visible emissions and/or opacity determinations from any transfer point on belt conveyors or any screen; and
 - C. Quarterly observations for visible emissions from the screens, transfer points on belt conveyors, material storage or feed bins, or stockpiles.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 46868

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
2	Scale Screen	PM	21.78	17.43
		PM ₁₀	10.89	8.72
3	Scale Stockpiles (5)	PM	--	2.91
		PM ₁₀	--	1.46

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.