

U.S. Environmental Protection Agency Region 4
61 Forsyth Street Atlanta, GA 30303
South Air Enforcement Section
EPCRA Inspection Checklist/Inspection Report

Company Name Advanced Technical Ceramics Company SIC/NAICS 33419
Lead Inspector Name Chetan Gala (Inspector in training) Inspection Date March 30, 2022
Inspection Team Members Jordan Noles

1. State purpose of the inspection and present credentials.
2. Record names and titles of the facility representatives participating in the inspection.

Name/Title Pam McElroy / Environmental Health and Safety Coordinator Phone: (423) 755-5472

Name/Title: David Verneti/ Chief Operating Officer Phone: (423) 756-5610

Obtain exact name and address of the facility being inspected, as well as any Parent Company information

Facility Name: Advanced Technical Ceramics Company
Address: 511 Manufacturers Road
Chattanooga, Tennessee 37405 County: Hamilton
Owner/Operator/Parent Company (Name, Address, Phone): N/A
How long owned/operated, recent sale of facility (date)? Approximately seventeen (17) years.
In operation since 2004 under the current company name.

3. Obtain/review facility description
 - a. Officers' names and titles: Pam McElroy/ Environmental Health and Safety Coordinator
David Verneti/ Chief Operating Officer
 - b. Incorporation date and location _____
 - c. Other facilities owned by the company _____
 - d. Number of employees: Approximately 140 (125 full time and 10-15 part time)
 - e. Annual Corporate Sales _____
 - f. Process Description and Process Diagrams: The Company has a process by which the anhydrous ammonia is "dissociated" into its component parts i.e., Nitrogen and Hydrogen. This dissociated ammonia (DA) gas is used as process gas for kilns and furnaces in a controlled reducing atmosphere free of oxidation. The anhydrous ammonia is supplied by tanker trucks through liquid fill connection. The anhydrous ammonia is stored in a 12,000-gallon stationary, horizontal, cylindrical pressure vessel. The storage vessel is sized to provide approximately 90 days of continuous supply of dissociated ammonia gas before requiring refilling. The anhydrous ammonia storage vessel is monitored for temperature, pressure, and liquid level. There are local gauges and an electronic telemetry unit deployed for such monitoring. The Company has an alarm system including an audible alarm installed for leak detection and out of tolerance pressure conditions. There are three (3) dissociator vessels used to dissociate anhydrous ammonia vapor that is piped from the top of the anhydrous storage vessel. The pressure is reduced from 125 psig to 40 psig to allow for constant pressure feed to the dissociator vessels. At each of the three (3) dissociator vessels the ammonia vapor is again reduced to 12 psig for introduction into the pre-heater. The ammonia vapor is then piped into the catalyst

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chamber and heated. The DA gas is then piped into the plant for use in the kilns and furnaces as process gas.

g. Jurisdictional Fire Department Chattanooga Fire Department.

4. Compliance Review by Statute:

Section 302

a. EHSs present above TPQ?	<u>Y</u>	N	N/A
b. Notification to SERC and LEPC of EHSs	Y	N	<u>N/A</u>
c. Obtained list of inventory of EHSs	Y	N	<u>N/A</u>

Section 303 (if subject to 302)

d. Facility Emergency Coordinator Pam McElroy / EHS Coordinator

e. Date identified to LEPC?

f. Emergency Contingency Plan submitted (date)?

g. Obtained copies of notification letters and verified mail return receipts, where appropriate?

Section 304/CERCLA 103

h. Has facility had a reportable emergency release?	Y	<u>N</u>	N/A
i. Release reported to: NRC?	Y	<u>N</u>	<u>N/A</u>
SERC/ Follow-up?	Y	N	<u>N/A</u>
LEPC/Follow-up?	Y	N	<u>N/A</u>
j. Obtained copy of facility's incident report	Y	N	<u>N/A</u>

Section 311

k. MSDS to SERC, LEPC, fire dept (Haz. Chem $\geq$ 10,000 lbs)?	<u>Y</u>	N	N/A
l. MSDS to SERC, LEPC, fire dept (EHSs $\geq$ 500 lbs or TPQ)?	<u>Y</u>	N	N/A
m. Reviewed documentation of submissions?	Y	<u>N</u>	N/A

Section 312

n. Obtained chemical inventory list	Y	<u>N</u>	N/A
o. View purchase records (where applicable)	<u>Y</u>	N	N/A
p. Tier II reports to SERC, LEPC, fire dept (Haz. Chem $\geq$ 10,000 lbs)?	<u>Y</u>	N	N/A
q. Tier II reports to SERC, LEPC, fire dept (EHSs $\geq$ 500 lbs or TPQ)?	<u>Y</u>	N	N/A
r. Reviewed documentation of maximum daily amounts stored?	<u>Y</u>	N	N/A
s. Reviewed MSDSs?	<u>Y</u>	N	N/A
t. Reviewed documentation of submissions?	<u>Y</u>	N	N/A

Section 313

u. Form R/A to State and EPA for Toxic Chemicals:

Manufactured, processed, and caused to be imported $\geq 25,000$ lbs, otherwise used $\geq 10,000$ lbs	<u>Y</u>	N	N/A
v. Obtained list of 313 chemicals MPOU at the facility	<u>Y</u>	N	N/A
w. Obtained documentation of submissions?	<u>Y</u>	N	N/A

Report Prepared By:

Name (Printed): Chetan Gala

Title: Life Scientist, Inspector-In-Training

Signature: Gala, Chetan Digitally signed by Gala, Chetan
Date: 2022.05.26 09:28:43 -04'00'

Name (Printed): Jordan Noles

Title: Life Scientist, Inspector

Signature: JORDAN NOLES Digitally signed by JORDAN
NOLES
Date: 2022.05.26 09:41:10 -04'00'

Report Authorized By:

Name (Printed): Todd Groendyke

Title: Chief, South Air Enforcement Section

Signature: Groendyke, Todd Digitally signed by Groendyke,
Todd
Date: 2022.05.26 09:14:38 -04'00'