11-TTAG-001

Company Name	Grace Composites
NAICS	326199
Address	351 Ruth Rd.
City	Lonoke
State	AR
ZIP	72086
County	Lonoke
Number of Employees	35
Year Established	1998
Company Web Site	
Contact Person	Jeanean Wilson
Title	Document Control
Phone	501-676-9505
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Secondary Contact Name	Jeff Foster
Secondary Contact Title	Owner
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Resource Provider	Environmental Services Group, Inc.
RP Address	2300 Cottondale Lane Suite 260
RP City	Little Rock
RP State	AR
RP ZIP	72202
RP County	Pulaski
RP Project Contact	Brett Todd

RP Title	Area Sales Manager
RP Phone	501-663-4731
RP Email	btodd@esgisafety.com
RP Fax	501-663-7798
Project Area	Environmental Sciences - 9 - Other Environmental Sciences (Please provide short description in box provided below)
Project Area Brief Description	The manufacture of fiber glass pipe presents potential health hazards to workers, including potential respiratory exposure to volatile organic compounds and airborne fiber glass dust. This project is designed to evaluate these potential hazards by (1) personal air sampling for volatile organic compounds and fiber glass dust, (2) comparing the results with OSHA Permissible Exposure Limits, and (3) making appropriate recommendations to assure worker safety and compliance with applicable OSHA Standards.
Federal Agency	- Not Applicable -
Project Title	11-TTAG-001 - Industrial Hygiene Study
Competitive Challenges	The protection of worker safety and health is essential to the survival of Grace Composites. The first concern for protecting the safety and health of workers is with the individual worker and the worker's family. Second, it is important for healthy workers to be at work every work day. Third, the long term potential for harming worker health presents a long term Workers' Compensation issue to Grace Composites. Fourth, failure to comply with the worker protection requirements of OSHA can be of significant concern. This project is designed for a Certified Industrial Hygienist to evaluate potential worker health hazards by a (1) personal air sampling for volatile organic compounds and fiber glass dust, (2) comparing the results with OSHA Permissible Exposure Limits, and (3) making appropriate recommendations to assure worker safety and compliance with applicable OSHA Standards.
Specific Problem	The manufacture of fiber glass pipe involves processing fiber glass mechanically which has the potential to generate airborne fiberglass dust in the breathing zone of workers exceeding Permissible Exposure Limits promulgated by OSHA. The resins used to bind the fiber glass into pipe can potentially evolve

	volatile organic compounds into the breathing zone of the workers in excess of OSHA's Permissible Exposure Limits. In order to evaluate whether those limits are exceeded requires a Certified Industrial Hygienist to conduct accurate air sampling, evaluation, and development of appropriate recommendations, which this project addresses.
Solution	In the event that any applicable OSHA Permissible Exposure Limits are exceeded, this project will recommend measures that are effective and practical in reducing any workers' exposures below OSHA's Permissible Exposure Limits. Recommended measures could include: • Engineering controls such as local exhaust ventilation or enclosing the process • Administrative controls such as special work methods and improved maintenance/house keeping. Employee personal protective equipment
Implementation Plan	A Certified Industrial Hygienist will conduct an industrial hygiene study of the manufacture of fiber glass pipe at Grace Composites including; • Review of Material Safety Data Sheets of hazardous materials handled at Grace Composites • Design of a sampling protocol based on potential worker exposure • Conduct the sampling program and laboratory analyses • Compare the findings with applicable OSHA Standards Provide appropriate recommendations for any needed corrective action
Maintenance Plan	Grace Composites will implement necessary recommended measure which could include: · Engineering controls such as local exhaust ventilation or enclosing the process · Administrative controls such as special work methods and improved maintenance/house keeping. · Employee personal protective equipment By following recommendations of The Resource Provider after the Industrial Hygiene Study, Grace Composites will minimize potential risk to employees associated with these areas and avoid potential penalties.

Step 1	ESGI will conduct the on-site industrial hygiene study and assesment
Step 1 Time	20.00
Step 1 Budget	$1,900
Step 2	ESGI will prepare and submit the samples for analysis, compare results with OSHA Permissible Exposure Limits
Step 2 Time	12.00
Step 2 Budget	$1,140
Step 3	ESGI will prepare a written report which will include any needed recommendations to assure worker safety and compliance with OSHA standards
Step 3 Time	28.00
Step 3 Budget	$1,960
Increased Sales	$0
Retained Sales	$2,580,000
CS Inventory	$0
CS Labor	$0
CS Materials	$0
CS Other	$0
II Plant	$0
II IS	$0
II Workforce	$5,000
II Research	$0
II Other	$0
AUI	$50,000
SOI	$10,000
Job Retention	1
Job Creation	0
YN 90Days	Yes

YN Affiliation	No
YN Agreement	Yes
YN Total Project Price	Yes
Explain Total Project Price	
YN Cash Match Agreement	Yes
Copied	No
TTAG ID	11-TTAG-001
Signature Panel - RP AR Name	Brett Todd
Signature Panel - RP AR Email	btodd@esgisafety.com
Signature Panel - Enterprise AR Name	Jeanean Wilson
Enterprise - Email	
Signature Panel - Enterprise AR Email	jeanean@gracecomposites.com
Include in Batch	Yes
Batch Number	NA
Application Status	Pending
Organization	AMS
BatchTest	Processed
Batch Date	
Set Batch Number	
Lvl4	Yes
Application Description	5-Strategic/Business Management/Planning Services
SBIR-STTR	No