Operational Flexibility Notification (For Non-Title V Sources)

January 23, 2014

RE: Permit # 0457440P

Reference # Mc Minn – Denso Manufacturing Athens Tennessee, Inc.

Source 54-0158-38

TO: The Technical Secretary

Tennessee Air Pollution Control Division

William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Ave., 15th Fl

Nashville, TN 37243

The facility plans to make the following changes pursuant to TAPCR 1200-3-2-.01(1) (aa) 4 (State regulation governing operational flexibility changes):

- 1) Description of Changes: Addition of one Powder Waste Recycling Machine to DMAT's Monolithic Carrier Production.
- 2) This system will be equipped with an air pollution control device that will ensure no emissions are generated from this process.
- 3) There will be no change in the permitted VOC, PM, SO2 and HAP emissions as this is an enclosed system. MSDSs for all chemicals and/or products involved in this process are included with this submittal.
- 4) Installation of new machinery will not begin before March 1, 2014.
- 5) All permit terms and conditions are still applicable.

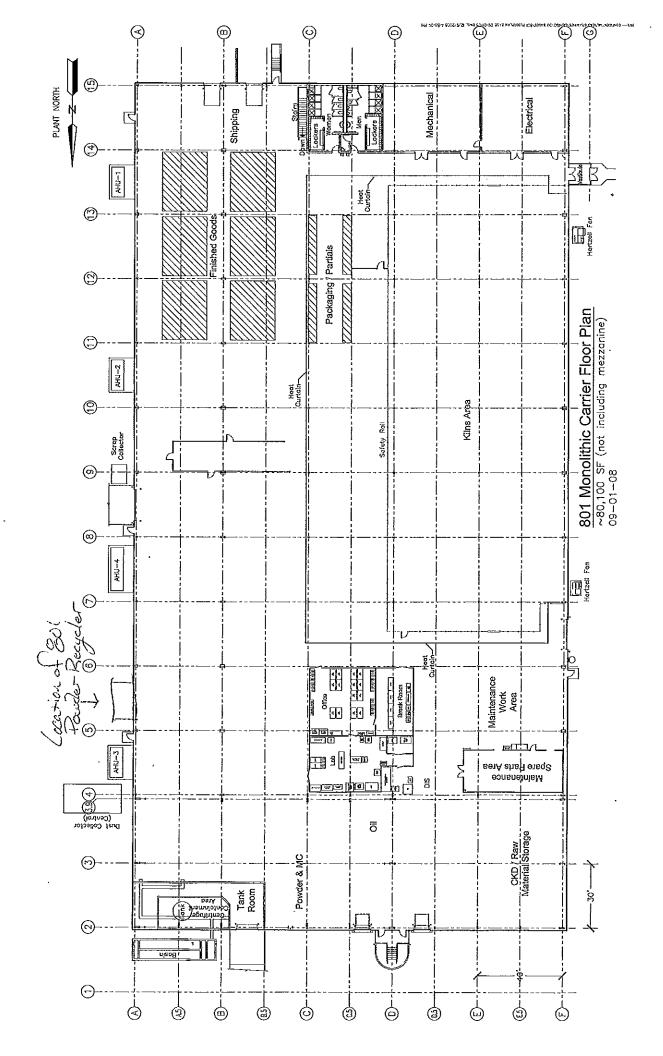
This source is not subject to requirements of paragraphs 1200-3-9-.02(11), 1200-3-9-.01(4), and 1200-3-9-.01(5). These changes do not result in emissions exceeding the emissions allowable under the existing operating permit. These changes do not result in the emission of any air contaminant (to which an emission standard applies) not previously emitted. If you have any questions or require further information, please contact Joseph Luncford at (423) 746-0000 ext. 7521.

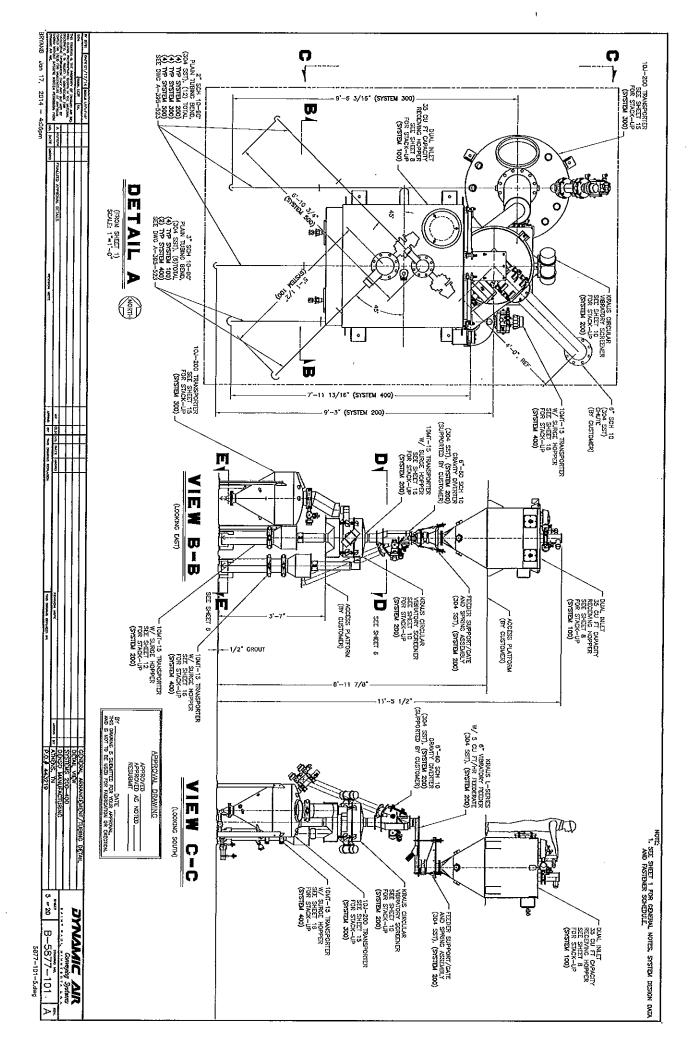
Based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Sincerely,

Shawn Bryant

Manager, Safety Health and Environment





1-41-25-		<u> </u>	
Cordierite			
		Date of Issue:	04-Jun-07
		Update day	
1.Product & Company Identification			
Product Name	;	Cordierite	
· Company Name	1:	Junmei Ceramics (Dandong) Co., Ltd
- Address	:	No. 165 Donggang	South Road Donggang Economis
		Development Zone	Liaoning Province P.R. China
• Section	 :	Quality Assurance	
· Person in Charge	:	Cal Xinjun	
· Telephone No.		+86-415-7144-688	
• Fax No.		+86-415-7144-241	
2.Composion /Information on Ingredients		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
· Substance or Preparation	:	Substance	
· Chemical name	1:	Cordierité	
· Ingredients	:	mixed by Aluminum	Hydroxido, Alumina, Kaolin
		Siliça and Talc	
Content	:	Item	CAS #
		Aluminum Hydroxid	e 21645-51-2
		Alunina	1344-28-1
		Silica	60676-86-0
		Kaolin	1332-58-7
		Talc	014807-96-6
Ingredients of Hazardous Harmfulness	1:	Not applicable	
Ing. carried at the particular transfer and transfer a			
3. Hazarda Identification (Most Important H	(azard)		
Toxicity	;	Not applicable	
Specific Hazardousness		Not applicable	
Danger	;	No inflammability	and explosiveness
4.First-Aid Measures			
Inhalation	;	Move to inhale fro	esh air immediately
Skin Contact	:	Clean Skin with soap and water	
Eye Contact	;	Clean Eyes Immedia	ately with plenty of water
		get immediate medi	ical attention.
Ingestion		Rince your wouth and	i when yoult, get innadiate medical
		attention.	
Information about the most important		There isn't any sp	pecial symptom, but
Symptom and Washing	7	yentilate the roo	om and if there is skin
	1	contact, clean ski	n with clean water.
5.Fire Fighting Measures	1		
Fire-extinguishing Media		Not applicable for	non-inflanmables

	11.Toxicological Information						
i			inhalation may cause irritation in a respiratory organ.				
	Acute toxicity	:	Not applicable				
	Cance-causing .		Not applicable				
·	Accident ablogenesis	:	Not applicable				
ŀ	The oral toxicity		Not applicable				
	Teratogenicity	- <u>-</u> -	Not applicable				
	The habits toxicity	<u> </u>					
ļ	12. Ecological Information		Not applicable				
	Decomposition	H÷	Not applicable				
L_	Accumulation		Not applicable				
Ŀ	Fish poison	 :	Disposal must be made in accordance with				
_	13. Disposal Consideration -	 -	applicable governmental regulations.				
<u></u>			Bury in the earth deeply				
<u> </u>		+ -	Not applicable				
_	14.Transport Information	 -	III.				
			Envolmental Profection Law				
<u>_</u>	15 Regulation Information	┼					
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		+-					
		 					
L		╀					
		┼					
E	16.Other Information	╁┈					
		١.	traviladro avperience and				
	MSDS Information herein is drafted according	g [o our knowledge, experience for sure.				
	understanding. So, it is not necessarily covering all fields of information for sure. The information herein is given in good faith, but no warranty is expressed or implied.						
	The information herein is given in good tal	tn,	put no watranty is expression				
		1	(an abovial) once the product is				
	Since this MSDS is applied to a certain pro	duc t	((raw material), once the process of this				
	processed, treated or blended with other ma	teri	al, [(Will deviate from a cooperated				
	The same was should take a festionisticity in utilizing processes, trans-						
	or blended materials with investigations and experiments prior to actual uses competitions.						
Г	with regard to safety and hazardous informa	tior	1.				
			- information				
	This MSDS's content is renewed upon obtaini	ng (new injustacion.				
	Since it is very difficult to cover all haz	aros	S apout our products troubles implemented prior				
	sufficient precaution, investigation and experiment for hazards shall be implemented prior to actual usage and each user should take responsibility in utilizing our products.						
\cdot	to actual usage and each user should take r	espo	OUSIDILITY IN ACTUALING ON S.				
			A Library mak warrant clauses herein.				
	This MSDS Information neither specify purch	ase	specifications, nor warrant clauses herein.				

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	6.Accidental Release Measures		
	Precautions for Hugan Body and Environment		
-	· Precautions for Environment	_	: Wear dust-proof mask and gloves
\vdash			: Do not waste in sewage or drainage.
-	Methods of Cleaning	[_	: Eliminated by dust collector and wasted
-			in the same way as earth and rocks.
-	7.Handling & Storage		
-	Handling		Handling in well ventilated place.
1	Technical Measures	_	: Wear dust-proof mask and gloves
ļ	,		: Wash hand and face after handling
-	Storage .		Shelter from direct light, high temperature and high
\vdash			hualdity
<u> </u>			Packing materials do not torn and the contents do not
			appear.
,	Suitable Storage Conditions	:	Not exposed to the weather and keep indoors
Ŀ	Containers of Safty Packing Material	;	Recommend airtight container
	te a second		
	8. Exposure Control / Personal Protection		
	Measures for Facilities		Local exhaust/Clean the dust/Ventilator all over
	Protective Tools	1	
	Breathing Protection Machine	1:	Dust-proof mask
	Hand Protection	1:	Working gloves
٠	Eye Protection		Safty glasses
•	Skin and Body Protection	1:	Working cloth
" -		- - -	
	9.Physical & Chemical properties		
	Physical condition	+	Powder
	Color	+:-	White
. (Odor		Odorless
	Rolling Point		Not applicable
	Solting Point		Not applicable
	lash Point	+	
	xplosion property		Not applicable Not applicable
[-	ensity	1	
	olubility	 	0.7g/cc
- -			No soluble in water
1	0.Stability & Reactivity	 	
	tability	<u> </u>	
-⊦	eactivity		Stable under a room temperature and normal pressure
	ondition to Avoid		Not applicable
,-{			Oo not leave in high temperature and high humidity
<u> </u>	zardous Decomposition Products	: 11	dot applicable
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MATERIAL SAFETY DATA SHEET

D03985

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Page: 1

24-Hour Emergency Phone Number: 989-636-4400

Product:METHOCEL* F4M Hydroxypropyl Methylcellulose

Product Code: 53938

Effective Date: 12/18/03 Date Printed: 06/16/04

MSD: 000055

The Dow Chemical Company, Midland, MI 48674

Customer Information Center: 800-258-2436

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hydroxypropyl methylcellulose Water Sodium chloride CAS# 009004-65-3 85-99% CAS# 007732-18-5 1-10% CAS# 007647-14-5 0.5-5%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Essentially nonirritating to eyes. Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Essentially nonirritating to skin. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INGESTION: Single dose oral toxicity is considered to be low.

No hazards anticipated from swallowing small amounts incidental
to normal handling operations.

INHALATION: Single exposure to dust is not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Repeated ingestion of

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* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

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spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard.

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Spilled material may cause a slipping hazard.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls/Personal Protection.

PROTECT THE ENVIRONMENT: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

CLEANUP: Spills should be cleaned up immediately using care to minimize generation of airborne dust. See Section 13, Disposal Considerations for additional information.

7. HANDLING AND STORAGE

HANDLING: Good housekeeping and controlling of dusts are necessary for safe handling of product. No smoking, open flames or sources of ignition in handling and storage area.

STORAGE: Store in a dry place. Store below 90 F (32 C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure

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Product:METHOCEL* F4M Hydroxypropyl Methylcellulose Product Code: 53938

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INGESTION: The oral LD50 for rats is >10,000 mg/kg.

MUTAGENICITY: For methylcellulose, a similar cellulosic: in vitro mutagenicity studies were negative; animal mutagenicity studies were negative.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

DEGRADATION & PERSISTENCE: Based largely or completely on information for methylcellulose: biodegradation may occur under aerobic conditions (in the presence of oxygen). The half-life in activated sludge is less than 20 days.

ECOTOXICITY: Based largely or completely on information for similar material(s): material is practically non-toxic to fish on an acute basis (LC50 >100 mg/L).

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE DOW CHEMICAL COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, or landfill.

As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or

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MATERIAL SAFETY DATA SHEET

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MSD: 000055

REGULATORY INFORMATION (CONTINUED)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of

Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

MSDS STATUS: Revised Sections 3,4,6,8,9,12,15.

^{*} OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.