

TERRY E. BRANSTAD, GOVERNOR KIM REYNOLDS, LT. GOVERNOR

## STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES CHUCK GIPP, DIRECTOR

November 17, 2015

Mr. Prasad Devineni New Heaven Chemicals LLC 18 Jenny Layne Road Sussex, NJ 07461

#### RE: New Heaven Chemicals LLC, Manly, Iowa, Industrial Wastewater Treatment Project. DNR project # - S2016-0158

#### Subject: Variance Request from 567 IAC 64.2(3)d and Design Standards Section 14.2.3(d)-Site Approval Requirements

Dear Mr. Devineni:

After careful and thorough consideration, the Department has approved your November 17, 2015 request for a variance from Iowa Administrative Code Sub rule 567 IAC 64.2(3) and Chapter 14.2.3(d) of the Iowa Wastewater Facilities Design Standards which require a minimum 400 feet separation distance from private wells for a new wastewater treatment plant.

New Heaven Chemicals is a new Sodium Methoxide manufacturing facility currently under construction in Worth County, Iowa. This facility will generate three different streams of wastewater that will require treatment before discharging to the nearby Beaver Creek through a single outfall structure. Source water to the facility will be supplied from the recently installed well at the facility location. The requested variance is to construct a new wastewater treatment facility which will be 372 feet from their newly installed well to supply water only for the industrial process use, no potable water from this well.

Based on the documentation presented by your Engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of variance. The requested variance is deemed to be reasonable and necessary pursuant to the Iowa Code section 455B.181.

The facts presented for the project present unique circumstances and the variance is therefore justified to provide the narrowest exception possible to the provisions of the rule in accordance with Rule 561 IAC 10.5

This decision is based on our review of justification presented to support the request. Our concurrence with the request is based on the Department's finding that the resulting project will

provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.

Please feel free to contact Suresh Kumar at (515) 725-8429 or email suresh.kumar@dnr.Iowa.gov if you have any questions.

Sincerely,

Joch

Jon Tack Water Quality Bureau Chief

C: Iowa DNR Field Office 2 Burns & McDonnell consulting engineer New Heaven Chemicals WWTP Sewage file # 6-98-00-1-14

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		VARIANCE RE lowa Department of Na		rces
1.	Date:	11/17/2015	14a.	Decision:
2.	Reviewer/Engr.:	Suresh Kumar		Date: 11/17/15 Expiration Date
3.	Date Received:	11/17/2015	14b.	(if any): Permanant
4.	Facility Name:	New Heaven Chemicals, Inc.		Approved
5.	Facility Number:	69800114		<i>,</i> .
6.	County Number:	98, Worth	15.	Appealed:
7.	Program Area:	CP (Wastewater)		Date:
8.	Facility Type:	C O5		
9.	Subject Area:	308, Site Separation		
10.	Rule Reference:	567-64.2(3)d		
11.	Design Std. Ref.:	14.2.3(d)		
12.	Consulting Engr.:	Burns & McDonnell		
13.	Variance Rule:	Variance Rule: 567-64.2(3)d		
New Word treat the f The new	th County, Iowa. Th ment before dischar acility will be supplie facility is requesting wastewater treatme	is a new Sodium Methoxide mani is facility will generate three differ ging to the nearby Beaver Creek of from the recently installed well a variance to the Iowa Administra nt facility which will be 372 feet fro	ent streams through a si at the facility ative Code S om their nev	ngle outfall structure. Source water to
17. <u>/</u>	Applicant's/Consultin	g Engineer's Justification:		
Pota prop Relo	ble water for the fac osed wastewater tre cating the proposed	atment plant.	Terminal we	ell located over 1,500 feet north of the north property boundary is impossible due
-	Department's Justific		····	
The will the treat build	well water should no be supplied by the M ment plant. The ind lings makes the relo	lanly Terminal well located over 1	,500 feet no in a tight loc er treatment	ation with the rail roads other existing
-	Precedents Used:			
Non	e			
20.	Staff Reviewer:	Ewesh Kuman tu Cheminat	Date	11/17/2015
21.	Supervisor: Ja	type Chennepati	Date	11/12/2015
22.	Authorized by:	, CM	Date	11/17/2015
				/

#### **Explanation of item numbers:**

- #1 Date starting process
- #3 Date stamped received by Iowa DNR
- #4 Must always be filled in, even in variance for Iowa DNR
- #11 If doesn't apply, note "n/a"
- #13 Rule allowing for an exception
- #14a "Approved" or "Denied "
- #14b If variance is permanent, note "permanent" per legal.
- #15 Date of Decision (#14)
- #16 Summarize (4-5 short sentences) with attached documentation
- #17 Summarize (4-5 short sentences) with attached documentation
- #18 Summarize (4-5 short sentences) with attached documentation
- #19 Summarize (4-5 short sentences) with attached documentation
- #21 Supervisor
- #22 Bureau Chief (sometimes same as supervisor)

#### Note:

#16, #17, #18, & #19: the Reviewer/Engineer summary is important as the technical and knowledgeable entity for the subject matter. Including the attachments is helpful but the Customer Service Team is uncomfortable attempting to summarize the attachments on your behalf.



RECEIVED NOV 1 6 2015 Director's Office

52016-0158

November 12, 2015

Mr. Chuck Gipp Director Iowa Department of Natural Resources 502 E. 9<sup>th</sup> Street Des Moines, IA 50319

Attention: Mr. Suresh Kumar, Environmental Engineer/Industrial Coordinator

Subject: New Heaven Chemicals Iowa, LLC – Manly, Iowa Petition for Variance or Waiver for the Distance from the On-site Well to the New Wastewater Treatment Plant

Dear Mr. Gipp:

On behalf of New Heaven Chemicals Iowa, LLC (New Heaven), we have prepared the following request for a variance to the setback distance between the proposed New Heaven Wastewater Treatment Plant (WWTP) and the newly installed on-site process water well.

On Friday, November 6, 2015, Mr. Carl Berg, Iowa Department of Natural Resources (IDNR) Mason City Field Office, performed a survey of the proposed WWTP location pursuant to Chapter 64 – Wastewater Construction and Operation Permits, of the Iowa Administrative Code (IAC), for the New Heaven WWTP. The outcome of Mr. Berg's visit was the proposed WWTP would be located such that the distance from the newly installed water well to the nearest WWTP process tank would be less than 400 feet. Based on Section 64.2(3) of the IAC (see attached), the separation distance from a treatment works to a private well (New Heaven's well) should be 400 feet or greater.

- Name, address and telephone number of entity requesting variance: New Heaven Chemicals Iowa, LLC 1585 380th Street Manly, Iowa 50456 Attn: Prasad Devineni (201) 506-9109
- Description and citation of specific rule from which a variance is requested: Chapter 64 – Wastewater Construction and Operation Permits, IAC Chapter 64.2(3)d Separation distance of 400 feet from a treatment works to private wells.
- 3. *Specific variance requested, scope, and operative period which the variance will extend:* A. *Specific variance requested:*

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1431 Opus Place \ Suite 400 \ Downers Grove, IL 60515 O 630-724-3200 \ F 630-724-3201 \ burnsmcd.com NOV **16** 2015





November 13, 2015

Petition for Variance or Waiver for the Distance from the On-site Well to the New Wastewater Treatment Plant – New Heaven Chemicals Iowa, LLC Page 2

Relief from the required separation distance of 400 feet between the treatment works and the on-site private well pursuant to IAC 567-64.2(3)d. The proposed separation distance would be 371 feet, 8-inches from the on-site process only (non-domestic) well to the nearest tank for the wastewater treatment plant.

#### B. Scope:

Relief is sought for the location of the new wastewater treatment plant to be as far south and east from the leased site boundaries, meeting the 25 feet setback distance for property lines and right-of-ways pursuant to Chapter 64.2(3)f.

*C. Operative Period:* Indefinitely.

- 4. Relevant facts justifying variance:
  - A. The New Heaven on-site well will be used only for process water;
  - B. Potable water will be used only at the Administrative Building and will be supplied by the Manly Terminal well located over 1,500 feet north of the proposed wastewater treatment plant;
  - C. The location of the nearest WWTP process tank is 371 feet 8-inches from the New Heaven well;
  - D. The process wastewater projected to be generated at the site is well below 10,000 gallons per day and, given the design, is not expected to impact the on-site well;
  - E. New Heaven considered relocating the wastewater treatment plant west of the proposed location; however, underground gas and electricity utilities are located at that area;
  - F. There is no evidence of contamination of either the groundwater aquifer or the New Heaven leased property;
  - G. If denied, the economic implications would cause New Heaven to expend additional monies, probably over \$3 million, to lease additional real estate through third-party negotiations, with no additional environmental benefit to Beaver Creek, the receiving stream;
  - H. If denied, the project schedule could drastically be impacted, causing the loss of business.
- 5. Contact History with the Iowa Department of Natural Resources New Heaven strategically identified its Sodium Methoxide Manufacturing facility in Manly, Iowa, and applied for project funding with third-parties. Burns & McDonnell has



November 13, 2015

Petition for Variance or Waiver for the Distance from the On-site Well to the New Wastewater Treatment Plant – New Heaven Chemicals Iowa, LLC Page 3

- been contracted to secure environmental permits for New Heaven. Once project funding appropriations were secured, New Heaven and its consultants engaged the Iowa DNR to work with New Heaven to secure the necessary permits. Air permits have been secured for this project and no violations of any environmental regulation are known for this site.
- 6. *Any information known to the petitioner regarding the Department's treatment of similar cases:* None.
- 7. *Name, address, and telephone number of any public agency or political subdivision that might be affected by granting this variance:* None.
- 8. *Name, address, and telephone number of any person or entity that might be affected by granting this variance:* None.
- 9. *Identity of those having knowledge of relevant facts concerning the variance.* A. Prasad Devineni, New Heaven Chemicals Iowa, LLC
  - B. Carl Berg, Iowa Department of Natural Resources, Mason City Field Office
  - C. Eduardo Gasca, P.E., Burns & McDonnell Engineering Company, Inc.
  - D. Jeffery Pope, P.E., Burns & McDonnell Engineering Company, Inc.
- 10. Signed release:





November 13, 2015

Petition for Variance or Waiver for the Distance from the On-site Well to the New Wastewater Treatment Plant – New Heaven Chemicals Iowa, LLC Page 4

Please contact Prasad Devineni at (201) 506-9109, or Eduardo Gasca of Burns & McDonnell at (312) 223-9599, with any questions pertaining to this variance request.

Jeffery L. Pope, P.E.

Department Manager Burns & McDonnell Engineering Company, Inc.

JP/eg

cc: Suresh Kumar, Iowa DNR Prasad Devineni, New Heaven Joseph Darlington, Burns & McDonnell

#### Kumar, Suresh [DNR]

From:	Gasca, Eduardo <egasca@burnsmcd.com></egasca@burnsmcd.com>
Sent:	Monday, November 16, 2015 9:51 AM
То:	Kumar, Suresh [DNR]
Cc:	Prasad Devineni, (New Heaven); Prasad Devineni; 79895; Darlington, Joseph
Subject:	FW: FedEx Shipment 774976645311 Delivered

Dear Mr. Kumar

The original singed and executed New Heaven variance request was mailed via overnight delivery to Mr. Gipp last Friday. The package was just delivered.

Please let me know if there are questions.

Thank You,

Eduardo Gasca, PE \ Burns & McDonnell Senior Environmental Engineer o 312-223-9599 \ M 773-412-7334 \ F 312-223-9664 egasca@burnsmcd.com \ burnsmcd.com 200 W. Adams St. Suite 1600 \ Chicago, IL 60606

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Sent: Monday, November 16, 2015 9:23 AM
To: Gasca, Eduardo
Subject: FedEx Shipment 774976645311 Delivered

Ship date: Fri, 11/13/2015 Joan Wiegand BURNS & MCDONNELL Downers Grove, IL 60515		Delivery date: Mon, 11/16/2015 9:16 am Chuck Gipp, Director Iowa Dept. of Natural
US	Delivered	Resources 502 E. 9th Street DES MOINES, IA 50319 US
Shipment Facts		
·	he following package has	
Tracking number:	774976645311	
Status:	Delivered: 11/16/2015 09:16 AM Signed for By: W.NGUYEN	
Reference:	88245 12970 J Wiegand	
Signed for by:	W.NGUYEN	
Delivery location:	DES MOINES, IA	
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# NEW HEAVEN CHEMICALS

November 11, 2015

Mr. Suresh Kumar Environmental Engineer/Industrial coordinator Iowa Department of Natural Resources 502 E. 9<sup>th</sup> Street Des Moines, IA 50319

Subject: Variance for the Location of the New Wastewater Treatment Plant. New Heaven Chemicals Iowa LLC – Manly, Iowa.

Dear Mr. Kumar:

This letter is to request a variance for the setback distance between the proposed New Heaven Chemicals Iowa LLC (NHC) Wastewater Treatment Plant (WWTP) and the newly installed on-site process water well.

On Friday November 6, 2015 Mr. Carl Berg from the Iowa Department of Natural Resources (IDNR) Mason City Field Office performed the survey of the proposed WWTP location pursuant to Chapter 64 – Wastewater Construction and Operation Permits - of the Iowa Administrative Code (IAC) for the NHC WWTP. The outcome of Mr. Berg's visit was that the proposed WWTP would be located such that the distance from the newly installed water well to the nearest WWTP process tank was less than 400 feet. Based on Section 64.2(3) of the IAC (see attached) the separation distance from a treatment works to a private well (NHC well) should be 400 feet or greater.

NHC and its consultants evaluated the options available to address this discrepancy and will implement the following:

- The newly installed well will be used only for process water and will exclude any potable water use;
- 2. The potable water will be supplied to the NHC Administrative Building from the Manly Terminal water well which is located north of the NHC site, over 1,500 feet away from the proposed WWTP;
- 3. The location of the WWTP will be moved to the south, as much as possible, keeping the 25 feet setback distance to the south leased property boundary. This will cause the final distance from the NHC well to the nearest WWTP process tank corner to be 371'-8".

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## NEW HEAVEN CHEMICALS

- 4. The process wastewater generated at the site comes from the manufacturing areas and is less than 10,000 gallons per day. Given the design and topography of the NHC site, the potential for the process water to impact the NHC well is considered minimum; and
- 5. There is no evidence of known contamination of the groundwater aquifer and the NHC leased property.

NHC considered relocating the WWTP to the west but underground utilities are located at that area. NHC also considered moving the location of the WWTP further south to meet the required distance setback and secure additional land for lease. However, the lease agreement involves third parties and given that the rail road tracks Right-of-Way must also be considered, a rather time consuming and convoluted review and approval process for leasing the additional land will be required placing this project schedule under jeopardy.

NHC trust that the Iowa DNR will find this setback distance variance request acceptable.

Please contact me at (201) 506-9109 or via e-mail (<u>pdevineni@newheavenchemicals.com</u>) if you have questions or need additional information for this variance request to be granted.

Cordially,

Prasad Devineni Managing Director New Heaven Chemicals Iowa LLC

EG/eg

Attachment: Chapter 64 of the IAC - 2 pages

cc: Carl Berg, Iowa DNR Mason City Field Office Jeff Held, CMM Joseph Darlington, Burns & McDonnell