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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 RENNER BOULEVARD
LENEXA, KANSAS 66219

BEFORE THE ADMINISTRATOR

IN THE MATTER OF)	
)	Docket No. CAA-07-2013-0016
ABILENE PRODUCTS CO. INC.,)	
)	
)	CONSENT AGREEMENT
)	AND FINAL ORDER
Respondent,)	
)	
Proceeding under Section 113(d) of the)	
Clean Air Act, 42 U.S.C. § 7413(d))	

PRELIMINARY STATEMENT

The United States Environmental Protection Agency, Region 7 (“EPA”) and Abilene Products Co. Inc. (“Respondent”) have agreed to a settlement of this action before filing of a complaint, and thus this action is simultaneously commenced and concluded pursuant to Rules 22.13(b) and 22.18(b)(2) of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties, Issuance of Compliance or Corrective Action Orders, and the Revocation, Termination or Suspension of Permits (“Consolidated Rules”), 40 C.F.R. §§ 22.13(b) and 22.18(b)(2).

ALLEGATIONS

Jurisdiction

1. This is an administrative action for the assessment of civil penalties instituted pursuant to Section 113(d) of the Clean Air Act (“CAA”), 42 U.S.C. § 7413(d). Pursuant to Section 113(d) of the CAA, 42 U.S.C. § 7413(d), the Administrator and the Attorney General jointly determined that this matter, where the first date of alleged violation occurred more than twelve months prior to the initiation of the administrative action, was appropriate for administrative penalty action.

2. This Consent Agreement and Final Order (“CA/FO”) serves as notice that EPA has reason to believe that Respondent has violated the Chemical Accident Prevention Provisions in 40 C.F.R. Part 68, promulgated pursuant to Section 112(r) of the CAA, 42 U.S.C. § 7412(r), and that Respondent is therefore in violation of Section 112(r) of the CAA, 42 U.S.C. § 7412(r).

Furthermore, this CA/FO serves as notice pursuant to Section 113(d)(2)(A) of the CAA, 42 U.S.C. § 7413(d)(2)(A), of EPA's intent to issue an order assessing penalties for these violations.

Parties

3. The Complainant, by delegation from the Administrator of EPA and from the Regional Administrator of EPA, Region 7, is the Director of the Air and Waste Management Division, EPA, Region 7.

4. The Respondent is Abilene Products Co. Inc., located at 818 Southeast 4th Street, Abilene, Kansas. From 2008 through December 2011, the facility manufactured liquid fertilizer for sale. Abilene Products Co. Inc. is incorporated under the laws of the State of Kansas.

Statutory and Regulatory Requirements

5. On November 15, 1990, the President signed into law the CAA Amendments of 1990. The Amendments added Section 112(r) to Title I of the CAA, 42 U.S.C. § 7412(r), which requires the Administrator of EPA to, among other things, promulgate regulations in order to prevent accidental releases of certain regulated substances. Section 112(r)(3), 42 U.S.C. § 7412(r)(3), mandates the Administrator to promulgate a list of regulated substances, with threshold quantities, and defines the stationary sources that will be subject to the accident prevention regulations mandated by Section 112(r)(7). Specifically, Section 112(r)(7), 42 U.S.C. § 7412(r)(7), requires the Administrator to promulgate regulations that address release prevention, detection and correction requirements for these listed regulated substances.

6. On June 20, 1996, EPA promulgated a final rule known as the Risk Management Program, 40 C.F.R. Part 68, which implements Section 112(r)(7) of the CAA, 42 U.S.C. § 7412(r)(7). This rule requires owners and operators of stationary sources to develop and implement a risk management program that includes a hazard assessment, a prevention program and an emergency response program.

7. The regulations at 40 C.F.R. Part 68 set forth the requirements of a risk management program that must be established at each stationary source. The risk management program is described in a Risk Management Plan ("RMP") that must be submitted to EPA.

8. Pursuant to Section 112(r)(7) of the CAA, 42 U.S.C. § 7412(r)(7), and 40 C.F.R. § 68.150, the RMP must be submitted for all covered processes by the owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process no later than the latter of June 21, 1999, or the date on which a regulated substance is first present above the threshold quantity in a process.

9. The regulations at 40 C.F.R. § 68.10 set forth how the chemical accident prevention provision regulations apply to covered processes. A covered process is eligible for

Program 3 if the process does not meet the requirements of Program 1 and if either the process falls under a specified North American Industry Classification System (“NAICS”) code or the process is subject to the OSHA process safety management standard, 29 C.F.R. § 1910.119.

10. Section 113(d) of the CAA, 42 U.S.C. § 7413(d), states that the Administrator may issue an administrative order against any person assessing a civil administrative penalty of up to \$25,000 per day of violation whenever, on the basis of any available information, the Administrator finds that such person has violated or is violating any requirement or prohibition of the CAA referenced therein, including Section 112(r)(7). Section 113(d) of the CAA, 42 U.S.C. § 7413(d), as amended by the Debt Collection Improvement Act of 1996, authorizes the United States to assess civil administrative penalties of not more than \$27,500 per day for each violation that occurs after January 30, 1997, through March 15, 2004, and \$32,500 per day for each violation that occurs after March 15, 2004. For each violation of Section 112(r) of the CAA that occurs after January 12, 2009, penalties of up to \$37,500 per day are now authorized.

Definitions

11. The regulations at 40 C.F.R. § 68.3 define “stationary source,” in part, as any buildings, structures, equipment, installations or substance emitting stationary activities which belong to the same industrial group, which are located on one or more contiguous properties, which are under the control of the same person (or persons under common control), and from which an accidental release may occur.

12. The regulations at 40 C.F.R. § 68.3 define “threshold quantity” as the quantity specified for regulated substances pursuant to Section 112(r)(5) of the CAA, as amended, listed in 40 C.F.R. § 68.130, Table 1, and determined to be present at a stationary source as specified in 40 C.F.R. § 68.115.

13. The regulations at 40 C.F.R. § 68.3 define “regulated substance” as any substance listed pursuant to Section 112(r)(3) of the CAA, as amended, in 40 C.F.R. § 68.130.

14. The regulations at 40 C.F.R. § 68.3 define “process” as any activity involving a regulated substance including any use, storage, manufacturing, handling or on-site movement of such substances, or combination of these activities. For the purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

General Factual Allegations

15. Respondent is, and at all times referred to herein was, a “person” as defined by Section 302(e) of the Clean Air Act, 42 U.S.C. § 7602(e).

16. Respondent’s facility located at 818 Southeast 4th Street, in Abilene, Kansas, is a

"stationary source" pursuant to 40 C.F.R. § 68.3.

17. Anhydrous ammonia is a regulated substance pursuant to 40 C.F.R. § 68.3. The threshold quantity for anhydrous ammonia, as listed in 40 C.F.R. § 68.130, Table 1, is 10,000 pounds.

18. On or about November 2-3, 2011, EPA conducted an inspection of Respondent's facility to determine compliance with Section 112(r) of the Clean Air Act and 40 C.F.R. Part 68.

19. Information gathered during the EPA inspection revealed that Respondent had greater than 10,000 pounds of anhydrous ammonia in a process at its facility.

20. From the time Respondent first had onsite greater than 10,000 pounds of anhydrous ammonia in a process in January 2008 until Respondent reduced the quantity of anhydrous ammonia at its facility to less than 10,000 pounds in March 2012, Respondent was subject to the requirements of Section 112(r) of the Clean Air Act, 42 U.S.C. § 7412(r), and 40 C.F.R. Part 68, because it was an owner and operator of a stationary source that had more than a threshold quantity of a regulated substance in a process.

21. From the time Respondent first had onsite greater than 10,000 pounds of anhydrous ammonia in a process in January 2008 until Respondent reduced the quantity of anhydrous ammonia at its facility to less than 10,000 pounds in March 2012, Respondent was subject to Program 3 of the risk management program requirements because, pursuant to 40 C.F.R. § 68.10(d), the covered processes did not meet the requirements of Program 1 and were subject to the OSHA process safety management standard.

22. During the period from January 2008 to March 2012, Respondent was required under Section 112(r)(7) of the Clean Air Act, 42 U.S.C. § 7412(r)(7), and 40 C.F.R. § 68.12, to develop and implement a risk management program that included a management system, a hazard assessment, a prevention program, and an emergency response program, and to submit an RMP.

Violations

23. EPA alleges that Respondent has violated the CAA and federal regulations promulgated pursuant to the CAA, as follows:

24. Information collected during the inspection of Respondent's fertilizer manufacturing plant revealed that Respondent failed to develop and implement a Risk Management Program that complied with all the requirements of 40 C.F.R. Part 68. Specifically:

COUNT I

25. Respondent failed in part to conduct a hazard assessment as provided in 40 C.F.R. §§ 68.20 through 68.42, as required by 40 C.F.R. § 68.12(d)(2), by failing to maintain onsite documentation of the methodology used to determine distance to endpoints for the offsite consequence analysis, as required by 40 C.F.R. § 68.39(d).

COUNT II

26. Respondent failed to fully implement various prevention requirements of 40 C.F.R. §§ 68.65 through 68.87, as required by 40 C.F.R. § 68.12(d)(3), as follows:

- a. Respondent failed to compile written process safety information that includes safe upper and lower limits for flows or compositions; materials of construction; piping and instrument diagrams; electrical classification; relief system design and design basis; design codes and standards employed; material and energy balances; or safety systems, and failure to document that equipment complies with recognized and generally accepted good engineering practices, as required by 40 C.F.R. § 68.65(c)(1)(iv), § 68.65(d)(1)(i-iv and vi-viii), and § 68.65(d)(2);
- b. Respondent failed to perform an initial process hazard analysis appropriate to the complexity of the process, as required by 40 C.F.R. § 68.67(a), and address the seven elements required by 40 C.F.R. § 68.67(c);
- c. Respondent failed to develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in the covered process, including the failure to address operating limits and safety systems and their functions, as required by 40 C.F.R. § 68.69(a);
- d. Respondent failed to develop and implement safe work practices for opening process equipment or piping, as required by 40 C.F.R. § 68.69(d);
- e. Respondent failed to establish and implement written procedures to maintain the on-going integrity of process equipment, as required by 40 C.F.R. § 68.73(b), failure to perform inspections and tests on process equipment following recognized and generally accepted good engineering practices at a frequency consistent with applicable manufacturer's recommendations and good engineering practices, as required by 40 C.F.R. § 68.73(d)(1-3), and failure to assure that equipment is suitable for the process application for which it will be used, as required by 40 C.F.R. § 68.73(f)(1);
- f. Respondent failed to document that deficiencies identified during a compliance audit have been corrected, as required by 40 C.F.R. § 68.79(d);

- g. Respondent failed to establish and implement written procedures to manage change, as required by 40 C.F.R. § 68.75(a);
- h. Respondent failed to develop a written plan to implement employee participation in the process hazard analysis and applicable elements of process safety management, as required by 40 C.F.R. § 68.83(a); and
- i. Respondent failed to implement safe work practices to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas, as required by 40 C.F.R. § 68.87(b)(4).

27. Each of Respondent's failures to comply with the requirements of 40 C.F.R. Part 68, as set forth above, is a violation of Section 112(r) of the CAA, 42 U.S.C. § 7412(r).

CONSENT AGREEMENT

28. Respondent and EPA agree to the terms of this CA/FO and Respondent agrees to comply with the terms of the Final Order portion of this CA/FO.

29. For purposes of this proceeding, Respondent admits the jurisdictional allegations set forth above, and agrees not to contest EPA's jurisdiction in this proceeding or in any subsequent proceeding to enforce the terms of the Final Order portion of this CA/FO.

30. Respondent neither admits nor denies the factual allegations and legal conclusions set forth in this CA/FO.

31. Respondent waives its right to a judicial or administrative hearing on any issue of fact or law set forth above and its right to appeal the proposed Final Order portion of the CA/FO.

32. Respondent and EPA agree to conciliate this matter without the necessity of a formal hearing and to bear their respective costs and attorneys' fees incurred as a result of this action.

33. This CA/FO addresses all civil and administrative claims for the CAA violations identified above. Complainant reserves the right to take enforcement action with respect to any other violations of the CAA or other applicable law.

34. Nothing contained in the Final Order portion of this CA/FO shall alter or otherwise affect Respondent's obligation to comply with all applicable federal, state, and local environmental statutes and regulations and applicable permits.

35. Respondent certifies by signing this CA/FO that, to the best of its knowledge, Respondent's facility is in compliance with all requirements of Section 112(r) of the CAA, 42 U.S.C. § 7412(r), and all regulations promulgated thereunder.

36. The effect of settlement described in Paragraph 33 is conditional upon the accuracy of the Respondent's representations to EPA, as memorialized in Paragraph 35 of this CA/FO.

37. In settlement of this matter, Respondent agrees to complete the following Supplemental Environmental Projects ("SEPs"), which the parties agree are intended to secure significant environmental and/or public health benefits. Respondent shall install a weather station system and an automated safety system at Respondent's facility, to better ensure the safety of the chemicals stored at Respondent's facility, as described more specifically in the Scope of Work (attached hereto as Attachment A and incorporated herein by reference).

38. The total expenditure for the SEP shall be no less than \$75,369.95, in accordance with the specifications set forth in the Scope of Work, and the SEP shall be completed no later than 180 days from effective date of the Final Order. All work required to complete the SEP shall be performed in compliance with all federal, state, and local laws and regulations.

39. Within thirty days of completion of the SEP, Respondent shall submit a SEP Completion Report to EPA at the address specified in Paragraph 40. The SEP Completion Report shall contain the following:

- (a) a detailed description of the SEP as implemented;
- (b) itemized costs, documented by copies of purchase orders, receipts, or canceled checks; and
- (c) certification that the SEP has been fully implemented pursuant to the provisions of this CA/FO.

40. Respondent shall submit all notices and reports required by this CA/FO by first class mail to the following:

Patricia Reitz
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219.

41. In itemizing its costs in the SEP Completion Report, Respondent shall clearly identify and provide acceptable documentation for all eligible SEP costs. Where the report includes costs not eligible for SEP credit, those costs must be clearly identified as such. For

purposes of this paragraph, "acceptable documentation" includes invoices, purchase orders or other documentation that specifically identifies and itemizes the individual costs of the goods and/or services for which payment is being made. Canceled drafts do not constitute acceptable documentation unless such drafts specifically identify and itemize the individual costs of the goods and/or services for which payment is being made.

42. Respondent agrees to the payment of stipulated penalties as follows:

- (a) In the event Respondent fails to comply with any of the terms or provisions of this Consent Agreement relating to the performance of the SEP as set forth in Paragraphs 37 and 38 of this CA/FO and/or to the extent that the actual expenditures of the SEP do not equal or exceed the cost of the SEP described in Paragraphs 37 and 38 of this CA/FO, Respondent shall be liable for stipulated penalties according to the provisions set forth below:
 - i. Except as provided in subparagraph (a)ii. and (a)iii. of this paragraph, if the SEP is not completed satisfactorily and timely pursuant to the agreement set forth in Paragraphs 37 and 38 of this CA/FO, Respondent shall be liable for and shall pay a stipulated penalty to the United States in the amount of Fifty-Seven Thousand, Seven Hundred and Sixty-Seven Dollars (\$58,788), minus any documented expenditures determined by EPA to be acceptable for the SEP, for a total equal to 120% of the amount by which the settlement penalty was mitigated on account of the SEP.
 - ii. If Respondent fails to timely and completely submit the SEP Completion Report required by Paragraph 39, Respondent shall be liable and shall pay a stipulated penalty in the amount of Two Hundred and Fifty Dollars (\$250).
 - iii. If the SEP is not completed in accordance with Paragraphs 37 and 38 of this CA/FO, but EPA determines that the Respondent: (a) made good faith and timely efforts to complete the project; and (b) certifies, with supporting documentation, that at least 90% of the amount of money which was required to be spent was expended on the SEP, Respondent shall not be liable for any stipulated penalty.
- (b) Respondent shall pay stipulated penalties not more than fifteen days after receipt of written demand by EPA for such penalties. The method of payment shall be in accordance with the provisions of Paragraph 1 of the Final Order portion of this CA/FO. Interest and late charges shall be paid as stated in Paragraph 48 herein.

43. Respondent certifies that it is not required to perform or develop the SEP by any federal, state, or local law or regulation; nor is Respondent required to perform or develop the SEP by agreement, grant or as injunctive relief in this or any other case or to comply with state or local requirements. Respondent further certifies that Respondent has not received, and is not presently negotiating to receive, credit in any other enforcement action for the SEP.

44. Respondent certifies that it is not a party to any open federal financial assistance transaction that is funding or could be used to fund the same activity as the SEP. Respondent further certifies that, to the best of its knowledge and belief after reasonable inquiry, there is no such open federal financial transaction that is funding or could be used to fund the same activity as the SEP, nor has the same activity been described in an unsuccessful federal financial assistance transaction proposal submitted to EPA within two years of the date of this settlement (unless the project was barred from funding as statutorily ineligible). For the purposes of this certification, the term "open federal financial assistance transaction" refers to a grant, cooperative agreement, loan, federally-guaranteed loan guarantee or other mechanism for providing federal financial assistance whose performance period has not yet expired.

45. For federal income tax purposes, Respondent agrees that it will neither capitalize into inventory or basis nor deduct any costs or expenditures incurred in performing the SEP.

46. Any public statement, oral or written, in print, film or other media, made by Respondent making reference to the SEP shall include the following language: "This project was undertaken in connection with the settlement of an enforcement action taken by the United States Environmental Protection Agency for violations of the chemical accident prevention provisions of the Clean Air Act and underlying regulations."

47. Respondent consents to the issuance of the Final Order hereinafter recited and consents to the payment of the civil penalty as set forth in the Final Order.

48. Late Payment Provisions. Pursuant to 31 U.S.C. § 3717, EPA is entitled to assess interest and penalties on debts owed to the United States and a charge to cover the cost of processing and handling a delinquent claim. Respondent understands that its failure to timely pay any portion of the civil penalty described in Paragraph 1 of the Final Order below or any portion of a stipulated penalty as stated in Paragraph 42 above may result in the commencement of a civil action in Federal District Court to recover the full remaining balance, along with penalties and accumulated interest. In such case, interest shall accrue thereon at the applicable statutory rate on the unpaid balance until such civil or stipulated penalty and any accrued interest are paid in full.

49. The undersigned representative of Respondent certifies that he or she is fully authorized to enter the terms and conditions of this CA/FO and to legally bind Respondent to it.

FINAL ORDER

Pursuant to the provisions of the CAA, 42 U.S.C. § 7401 *et seq.*, and based upon the information set forth in this Consent Agreement, IT IS HEREBY ORDERED THAT:

1. Respondent shall pay a civil penalty of Fifteen Thousand, Two Hundred Ninety Dollars and Fifty Cents (\$15,290.50) within thirty days of entry of this Final Order. Payment shall be by cashier's or certified check made payable to "United States Treasury," and shall be remitted to:

United State Environmental Protection Agency
Fines and Penalties
Cincinnati Finance Center
Post Office Box 979077
St. Louis, Missouri 63197-9000.

This payment shall reference docket number CAA-07-2013-0016.

2. Copies of the check should be sent to:

Regional Hearing Clerk
United States Environmental Protection Agency - Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

and to:

Erin Weekley
Assistant Regional Counsel
United States Environmental Protection Agency - Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219.

3. Respondent and Complainant shall bear their own costs and attorneys' fees incurred as a result of this matter.

4. No portion of the civil penalty or interest paid by Respondent pursuant to the requirements of this CA/FO shall be claimed by Respondent as a deduction for federal, state, or local income tax purposes.

5. The effective date of this Order shall be the date on which it is signed by the Regional Judicial Officer.

COMPLAINANT:
U.S. ENVIRONMENTAL PROTECTION AGENCY

Date 8/8/13

Becky Weber
Becky Weber
Director, Air and Waste Management Division
U.S. Environmental Protection Agency
Region 7

Date 8/8/13

Erin Weekley
Erin Weekley
Assistant Regional Counsel
U.S. Environmental Protection Agency
Region 7

RESPONDENT:
ABILENE PRODUCTS CO. INC.

Date Aug. 1, 2013

Dale Hoop
Name
Dale Hoop
Signature
owner
Title

IT IS SO ORDERED. This Final Order shall become effective immediately.

Date Aug. 14, 2013

Karina Borroneo
Karina Borroneo
Regional Judicial Officer
U.S. Environmental Protection Agency
Region 7

ATTACHMENT A - SCOPE OF WORK

Instrument		Size	Source	Price
Aqua Ammonia Feed				
Mass Meter			Sullivan	\$ 4,595.00
Converter			Sullivan	\$ 1,500.00
Control Valve			Sullivan	\$ 3,580.00
Acid Feed				
Mass Meter			Sullivan	\$ 9,995.00
Converter			Sullivan	\$ 1,500.00
Control Valve			Sullivan	\$ 3,580.00
Water Feed				
Mass or Mag Meter			Sullivan	\$ 6,995.00
Converter			Sullivan	\$ 1,500.00
Control Valve			Sullivan	\$ 2,550.00
Product to Storage				
Mass Meter			Sullivan	\$ 9,995.00
Converter			Sullivan	\$ 1,500.00
Control Valve			Sullivan	\$ 3,850.00
Differential Pressure				
Venturi			Dwyer	\$ 300.00
Packed			Dwyer	\$ 300.00
Fan Exhaust			Dwyer	\$ 300.00
Thermocouples				
			Omega	\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
				\$ 60.00
TOTAL				\$ 52,700.00

Operating Scenario:

Reactor can be operated as batch or continuous

As Batch:

1. Add predetermined amount of water to reactor surge tank
2. Add predetermined amount of acid to reactor surge tank
3. Circulate the acid/water mix through the heat exchange system
4. Add aqua to the reactor at set rate. Monitor temp of reactor surge tank and limit ammonia rate to maintain set temperature limit.
5. Complete reaction and continue circulating through heat exchangers. Reach desired temp in reactor surge and pump to storage.

As Continuous:

1. Start with heel of product liquor in reactor. Pumped in from storage.
2. Establish circulations through pipe reactor and the heat exchanger loop. (Product and water)
3. Start acid flow at predetermined rate.
4. Start water flow at predetermined rate.
5. Start aqua flow at predetermined rate.
6. Use level control to bleed off product liquor to storage.
7. Monitor temp of reactor and automatically adjust flow of acid to maintain the maximum allowable temperature. (Possibly use set acid flow and let water and aqua be ratioed to it.)

Scrubbing System:

The scrubbing system will essentially operate the same for both batch and continuous operations. It should be initiated prior to start of either reaction modes.

1. Fill scrubber recirculation tanks with fresh water (manually).
2. Establish recirculation through both scrubbers.
3. Start exhaust fan to establish ventilation of reactor surge tank through scrubbers. Monitor the air flow.

4. Monitor temperature and pH of of the Scrub 2 Surge Tank to insure that the scrubbers are not bypassing ammonia vapors. Automatically cut off the reactor flows if set points for pH and temperature are exceeded.
5. At end of batch operations, manually empty the scrubber surge tanks and reuse the water as process make-up water. Refill tanks with fresh water. .
6. Continuous process, the water will be bled of on a continuous basis and fresh water introduced to Scrub 2 Surge Tank on a continuous basis.

Basically, we need the PLC or PID controlers to start up the plant based on a product formulation that is entered by operator daily. The PLC would then monitor the flows, levels, temps, pH's and DP's across the system and would shut the system down or put it in a standby mode if limits are exceeded.

Air operated control valves will be used to maintain the acid, aqua, water and product flow rates. Possible ratio control on water and aqua.

Preferred flow monitoring would be mass flow meters but mag meters could also be used. If using mass flows, would utilize the SpGr, temp, flow rate, and totalizer outputs.

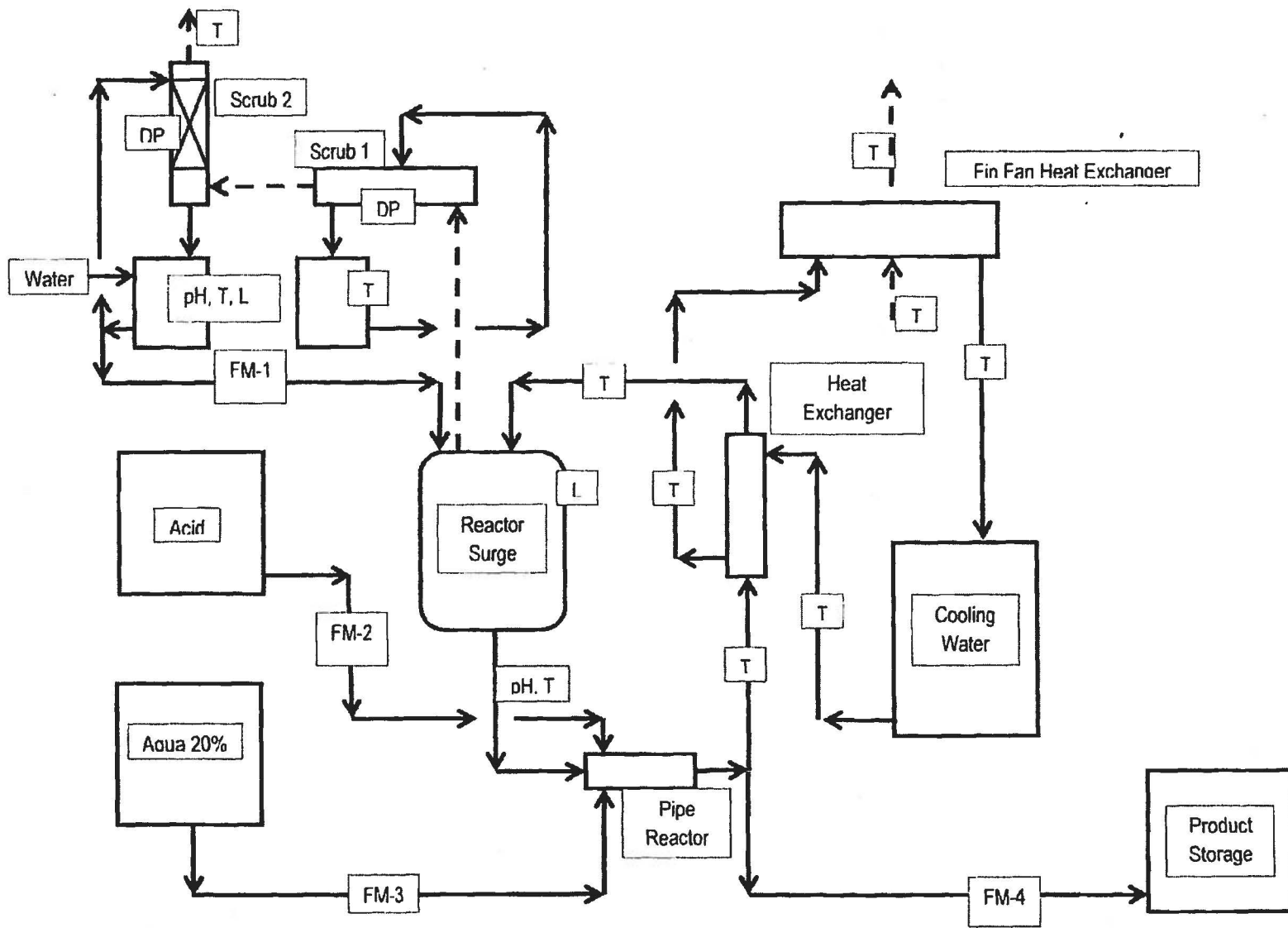
All temps would be thermocouples.

DP would be transmitting magnahelic gauges.

Pressure gauges on pumps and spray nozzles would be dial gauges.

Level controllers will be needed on reactor surge tank and Scrubber Surge Tank 2.

May need some audible alarms along with flashing lights.



ATTACHMENT A - SCOPE OF WORK

ATTACHMENT A - SCOPE OF WORK

WeatherShack.com

FREE SHIPPING ON ORDERS OVER \$50

McAfee SECURE
TESTER DAILY

VIEW CART (0 ITEMS) \$0.00
Customer Service (888) 992-2273

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- WEATHER INSTRUMENTS
- WIND CHIMES
- CLOCKS
- WEATHER RADIOS
- LIGHTNING DETECTORS
- PARTS & ACCESSORIES
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Home > Complete Home Weather Stations > Davis Vantage Pro2 Weather Stations

Davis Vantage Pro2 Weather Stations

If you're looking for a superior weather station, the Davis Vantage Pro2 Weather Station is as good as they come! The quality of this unit is apparent from the moment you first open the box. In addition to home users, this popular weather station can be found in schools, airports, and fire departments across the country. These weather stations are made in the USA by Davis Instruments. They have been around since 1963 and provide exceptional customer service and support. You will not find their products in "volume" stores, only at specialty retailers like WeatherShack.com!



Not sure which model to choose? Visit our [Davis Weather Stations Comparison Chart](#) to help you decide. Includes the Davis Vantage Pro2 weather station as well!

General Features

- Buckin Display (4)
- Calendar [Printable] (4)
- Capable of PC Connection (4)
- Clock (4)
- Data Storage (4)
- Moon Phase [Printable] (4)
- Multi Sensor Capable [Printable] (4)
- Sunrise/Sunset Times (4)
- Text and/or Email Alerts (4)

Weather Features

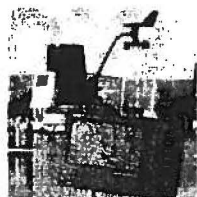
- Alarm - Barometric Pressure (4)
- Alarm - High/Low (4)
- Barometric Pressure (4)
- Barometric Pressure Trend (4)
- Dew Point (4)
- Evaporation Rate (4)
- Forecast Icon (4)
- Heat Index (4)
- Humidity - Indoor (4)
- Humidity - Outdoor (4)
- Meets NWS Requirements (4)
- Rainfall (4)
- Solar Radiation (2)
- Temperature - Indoor (4)
- Temperature - Outdoor (4)
- UV Index (2)
- UV Level (may be optional) (2)
- Wind Chill (4)
- Wind Direction (4)
- Wind Gust (4)
- Wind Speed - Average (4)
- Wind Speed - Current (4)

Davis Instruments (4)

- \$500 to 600 (1)
- \$600 to 800 (1)
- \$800 to 900 (1)
- \$900 and up (1)

4 Items
Sort by: Most Popular

Items per page: View All 4



Davis Instruments 6152 & 6152C Vantage Pro2

- Indoor/Outdoor Temp & Humidity
- Wind Speed/Direction
- Rainfall
- Barometric Pressure w/ Trend
- Heat Index & Dew Point
- Wireless or Cabled Models

Sale Price: \$429.95 - \$535.95
~~Lowest Price Available~~
FREE SHIPPING
WWS (139)



Davis Instruments 6153 Wireless Vantage Pro2 w/ Fan Aspiration

- Indoor/Outdoor Temp & Humidity
- Wind Speed/Direction
- Rainfall
- Barometric Pressure w/ Trend
- Heat Index & Dew Point
- Fan Aspirated Radiation Shield

Our Price: \$715.95
~~Lowest Price Available~~
FREE SHIPPING
WWS (27)



Davis Instruments 6162 & 6162C Vantage Pro2 Plus

- Indoor/Outdoor Temp & Humidity
- Wind Speed/Direction
- Rainfall
- Barometric Pressure w/ Trend
- Solar Radiation & UV Sensors
- Wireless or Cabled Models

Our Price: \$805.95 - \$895.95
~~Lowest Price Available~~
FREE SHIPPING
WWS (15)



Davis Instruments 6143 Wireless Vantage Pro2 Plus w/ Fan Aspiration

- Indoor/Outdoor Temp & Humidity
- Wind Speed/Direction
- Rainfall
- Barometric Pressure w/ Trend
- Solar Radiation & UV Sensors
- Fan Aspirated Radiation Shield

Our Price: \$1075.95
~~Lowest Price Available~~
FREE SHIPPING
WWS (12)

ATTACHMENT A - SCOPE OF WORK

Biehler and Roberts Construction, LLC

120 North F St, Herington, KS 67449

785-200-1309

INSTALLATION OF WEATHER MONITOR STATION

- Install exterior mounting for temperature, barometric pressure, rainfall, wind direction and speed.
- Run conduit from weather station exterior console reader
- Run power supply console

\$1,549.00

INSTALLATION OF RADAR LIQUID LEVEL SYSTEM

- Install three liquid level couplers on top of the storage tanks.
- Install console indicator in control house.
- Run power supply to interior console.
- Mount power transformer in console.
- Install 160' conduit to trellis with junction box to underground conduit.
- Install 2 underground junction boxes.
- Install 3 junction boxes on storage tanks.
- Run conduit to the top of storage tanks to indicator couplers.
- Install junction boxes to 3 terminal couplers.
- Pull coax/power cable for weather station and coax for radar level indicator.
- Daisy chain coaxes radar to tanks two and three.
- Connect all wires and test run systems.

\$2,539.00

Grand Total: \$4,088.00

ATTACHMENT A - SCOPE OF WORK

Installation of weather monitor station;

Install exterior mounting for temperature, barometric pressure, rainfall, wind direction and speed.

Run conduit from weather station exterior mount to interior console reader

Run power supply for console

Installation of radar liquid level system;

Install three liquid level couplers on top of storage tanks

Install console indicator in control house

Run power supply to interior console

Mount power transformer in console

Install 160' conduit to treless with junction box to underground conduit.

Install 2 under ground junction boxes

Install 3 junction boxes on storage tanks

Run conduit to the top of storage tanks to indicator couplers

Install junction boxes to 3 terminal couplers

Pull coax/power cable for weather station and coax for radar level indicator

Daisy chain coax for radar to tanks two and three

Connect all wires and test run systems.

ATTACHMENT A - SCOPE OF WORK

PRICE QUOTATION

BREED'S BARK, LLC

Date: July 5, 2013
 P.O. #: AP-061013
 Customer ID: AP-DK

Vendor	Claude Breed	Requested by	Dale Koop
	Breed's Bark, LLC		Abilene Products
	192 Chaparral Dr.		818 SE 4th
	Florence, AL 35630		Abilene, Kansas 67410
	831-917-2089		785-479-3753

Shipping Method	Shipping Terms	Delivery Date
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Qty	Item #	Description	Job	Unit Price	Line Total
4	1	Eurotherm model 3024 single loop controllers.		\$ 260.00	\$ 1,040.00
1	2	Control Valve for Acid		2,500.00	2,500.00
1	3	Control Valve for Aqua		2,150.00	2,150.00
1	4	Control Valve for Water		1,500.00	1,500.00
1	5	pH cell and transmitter for reactor		1,600.00	1,600.00
1	6	pH cell and transmitter for scrubber		1,600.00	1,600.00
5	7	Solid state relays		100.00	500.00
1	8	Control panel box complete with wiring terminals		500.00	500.00
6	9	Thermocouple probes		75.00	450.00
1	10	12 point rotary switch for TC inputs		250.00	250.00
3	11	Solenoids		125.00	375.00

Subtotal \$ 12,465.00
 Sales Tax
 Total \$ 12,465.00

Authorized by

Date



ATTACHMENT A - SCOPE OF WORK

Breed's Bark, LLC
192 Chaparral Dr Florence, AL 35630-1025
Voice 256-766-5548 Cell 831-917-2089 Fax 256-718-0180
bbllc@netzero.com

PRICE QUOTATION (Firm)

Quote # AP-MAX-01-072613

Dale Koop
818 SE 4th Street
Abilene, KS 67410

Re: Price Quote for Process Control System – Batch/Continuous Operation at Abilene, KS Facility

Attn: Dale Koop

Breed's Bark, LLC is pleased to quote the following equipment:

Process Control System with Single Loop Control, Data Logging and Remote Access Capabilities

Description

The bid includes a process automation panel capable of controlling/recording the Mixed Acid Reactor System, MAX-01, in either a batch or continuous mode. All inputs from flow (instantaneous and totalized), pH, temperature, level sensors, etc. will be monitored through 6 Eurotherm NANODAC Recorder/Controllers. Output signals from the NANODAC's will control the process variables at the set points established by the operator. Control will be accomplished by regulating control valves, shut off valves and/or pump and fan motor starters. Internal alarms and relays are included with each NANODAC which will allow for the desired emergencies alarms/controls. Controllers are easily re-programmable while mounted in the control panel and are interchangeable in an emergency.

Outputs from the NANODAC and additional thermocouples will also be sent to a Eurotherm Model 6180A trend recorder and data logger. Additional alarms are also built into the 6180. Data logging will be compiled internally and on removable thumb drives for archiving (for verifying past operating conditions). Ethernet connection is available on the 6189 which will allow remote monitoring of the process (using customer computer site). The 6180 will be preprogrammed with real-time on-screen process flow diagrams for both the batch and continuous flow schemes.

Both the NANODAC's and the 6180 can be reconfigured in the future to be utilized in a PLC control scheme if it becomes desirable. The single loop approach is bid because of the simplicity of the loop configurations and the limited level of process control expertise available in the region surrounding the Abilene Products facility.

ATTACHMENT A - SCOPE OF WORK

Construction

The 6 NANODAC's and the 6180 will be mounted in a freestanding single door steel cabinet (approximate dimensions of 37W x 24D x 72H) (NEMA 4 construction). All instrumentation will be mounted and the cabinet will be prewired; all input and output terminals will be labeled as per customer's designations. Panel will include all necessary power supplies and surge protectors.

A recommended option will be for the installation of lighted stop/start pushbuttons on the control panel. The additional price to be negotiated if desired.

Customer Requirements

The customer will need to provide a list of all process variables, control schemes and required alarms to allow for programming of the controllers. Audible and visual alarm devices will be required. All field connections to be made by customer. An Ethernet cable from the customer will be required if remote monitoring is desired. The operating environment for the control system should be controlled and protected from rain and chemical exposure.

Control Panel and Hardware **\$28,300.00**

On-Site Technical Startup Assistance

Technical start up assistance is estimated at 5 days including travel time. This is assuming there is no malfunction of the system resulting from shipping and that all field instruments are functioning correctly and all field connections are made correctly. Per Diem and travel expenses are included in the price. Additional on-site and follow-up telephone/net consulting time should be figured at \$75.00/hr plus expenses.

Technical Startup Assistance **\$ 4,750.00**

Terms and Conditions


Terms:	30% down with receipt of order 30% 30 days after receipt of order 40% when unit is installed and proved out
Delivery:	To be determined
Freight:	F.O. B. Florence, AL

Local sales taxes are not included.

Prices firm for 30 days, subject to change thereafter.

Thank you for the opportunity to quote this equipment. Please contact me with any questions you may have.

Sincerely,



Claude E. Breed
Owner/Manager
Breed's Bark, LLC

IN THE MATTER OF Abilene Products Co. Inc., Respondent
Docket No. CAA-07-2013-0016

CERTIFICATE OF SERVICE

I certify that a true and correct copy of the foregoing Order was sent this day in the following manner to the addressees:

Copy by email to Attorney for Complainant:

weekley.erin@epa.gov

Copy by First Class Mail to Respondent:

Mr. Dale Koop
President, Abilene Products Co. Inc.
2465 Highway 15
Abilene, Kansas 67410

Dated: 8/14/13



Kathy Robinson
Kathy Robinson
Hearing Clerk, Region 7