FORM R-1 REPORT OF REPAIR

648A-26001 #102222 R003962

in accordance with provisions of the National Board Inspection Code

| 5. NBIC Edition / Addenda:  (mfg serial no.)  (mfg serial no.)  (mfg serial no.)  (National Board No.)  (witisdiction no.)  (witistion no.)  (witist | )92_built) |
|--|------------|
| Owner Bayer Cropscience USA. PO Box 1005. Institute, WV 25112-1005  Location of installation  Bayer Cropscience USA. Blda, 330. Route 25. Institute, WV 25112 (game)  Location of installation  Bayer Cropscience USA. Blda, 330. Route 25. Institute, WV 25112 (game)  Location of installation  Pressure Vessel  Name of original manufacturer  Codic, pressure vessel)  Location (odics)  Location of installation  Pressure Vessel  Name of original manufacturer  Codic, pressure vessel)  Location (odics)  Repair Typic (odics)  Construction for Item:  ASME Section VIII Division 1  Construction Code Used for Repair Performed:  ASME Section VIII Division 1  Construction Code Used for Repair Performed:  ASME Section VIII Division 1  Common S | built)     |
| Location of installation    Bayer Cropscience USA, Eldq, 330, Routle 25, Institute, WV 25112 (name)   Condition  | built)     |
| Location of installation    Bayer Cropscience USA, Bldg, 330   Name of original manufacturer   DeDietrich (USA) Inc. (enddress)   Unit identification   Pressure Vessel   Name of original manufacturer   DeDietrich (USA) Inc. (enddress)   Identifying nos.:   1327   302   NA   | built)     |
| Location of installation    Bayer Crosscience USA, Bldg, 330. Route 25, Institute, WV 25112 (name)   | built)     |
| Location of installation    Bayer Crosscience USA, Bldg, 330. Route 25, Institute, WV 25112 (name)   | built)     |
| Unit identification Pressure Vessel Name of original manufacturer DeDietrich (USA) Inc.    Identifying nos.:   1327   302   NA   NA   1  | built)     |
| Unit identification Pressure Vessel Name of original manufacturer    DeDietrich (USA) Inc.   | built)     |
| Unit identification Pressure Vessel (bodier, pressure vessel)  Identifying nos.: 1327 302 MA NA 1  Identifying nos.: 1327 302 MA NA 1  (mig scrial no.) (National Board No.) (jurisdiction no.) (other) (year no.)  NBIC Edition / Addenda: 2004 None (addenda)  Original Code of Construction for Item: ASME Section VIII Division 1 Edition 1989. Addenda 1991  Construction Code Used for Repair Performed: ASME Section VIII Division 1 Edition 1989. Addenda 1991  Construction Code Used for Repair Performed: ASME Section VIII Division 1 Edition 1989. Addenda 1991  Repair Type: Welded Graphite Pressure Equipment FRP Pressure Equipment  Description of work: Weld repaired and ground wasted areas. Removed jacket, re-enameled vessel and re-installed (use supplemental sheet, Form R-4, tinacessary)  jacket with backing bandP/N 3121651. Replaced: (1) diaphragm collar/ring PN4007476/4007477. (6) Nameplate tabs PN4201620. (1) 1/2* Vening 1603146, and re-install(1) originsul ring assiy.  Pressure Test, if applied Int: 100, Jkt: 105 psi. MAWP Int: 100/FV Jkt: 90/90w/FV NA (name of part, item number, data report type, mif's. name and identifying stamp)  10. Remarks: Thicknesses are adequate to maintain original design pressures and temperatures.  Serial # J066562. Customer Order Number: 260105442  CERTIFICATE OF COMPLIANCE   | built)     |
| Unit identification   Flesting Vesses   Filting Vesses    | built)     |
| Identifying nos.: 1327   302   NA   NA   1   | built)     |
| Identifying nos.: 1327 (Mational Board No.) (National Board No.) (Guirsdiction no.) (other) (year (Mational Board No.)) (Indication no.) (other) (year NBIC Edition / Addenda: 2004 None (edition))  NBIC Edition / Addenda: 2004 None (edition)  Original Code of Construction for Item: ASME Section VIII Division 1 Edition 1993, Addenda 1991  Construction Code Used for Repair Performed: ASME Section VIII Division 1 (edition/addenda)  Repair Type: Welded Graphite Pressure Equipment FRP Pressure Equipment  Description of work: Weld repaired and ground wasted areas, Removed jacket, re-enameled vessel and re-installed (use supplemental sheet, Form R-4, if necessary)  jacket with backing bandP/N 3121651, Replaced: (1) diaphragm collar/ring PN4007476/4007477, (6) Nameplate tabs PN4201620, (11) 1/2* Veni 1603146, and re-install(1) originisul ring assiv.  Pressure Test, if applied Int: 100, Jkt; 105 psi. MAWP int:100/FV Jkt:90/90w/FV  Pressure Test, if applied Int: 100, Jkt; 105 psi. MAWP int:100/FV Jkt:90/90w/FV  Original Code of Construction for Item: (name of part, item number, data report type, mit's. name and identifying stamp)  CERTIFICATE OF COMPLIANCE  CERTIFICATE OF COMPLIANCE   | built)     |
| NBIC Edition / Addenda:    2004   None (edition)   |            |
| NBIC Edition / Addenda:  (edition)  (redition)  (redition/addenda)  (redition/addenda) |            |
| Original Code of Construction for Item:  ASME Section VIII Division 1 (name/section/division) (edition/addenda) (construction Code Used for Repair Performed:  ASME Section VIII Division 1 (rame/section/division) (edition/addenda) (name/section/division) (edition/addenda)  Repair Type:  Welded  Graphite Pressure Equipment  Description of work: Weld repaired and ground wasted areas. Removed jacket, re-enameled vessel and re-installed (use supplemental sheet, Form R.4, if necessary) jacket with backing bandP/N 3121651, Replaced: (1) diaphragm collar/ring PN4007476/4007477, (6) Nameplate tabs PN4201620, (1) 1/2* Vening 1603146, and re-install(1) orig insul ring assy.  Pressure Test, if applied Int: 100, Jkt: 105  Psi. MAWP Int: 100/FV Jkt: 90/90w/FV  Replacement Parts.  Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:  NA  (name of part, item number, data report type, mit's. name and identifying stamp)  10. Remarks: Thicknesses are adequate to maintain original design pressures and temperatures.  Serial # J066562, Customer Order Number, 260105442  CERTIFICATE OF COMPLIANCE  |            |
| Construction Code Used for Repair Performed:    ASME Section VIII Division 1   Edition 2004, Addenda N (name/section/division)   (edition/addenda)   Repair Type:   Welded   |            |
| Construction Code Used for Repair Performed:    Construction Code Used for Repair Performed:   Construction   Code Used for Repair Performed:   Construction   Code Used for Repaired and Graphite Pressure Equipment   Code Used   Code   Code  |            |
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| certify that to the best of my knowledge and belief the statements in this report are correct  |            |
| I, Robert Pedersen, certify that to the best of my knowledge and belief the statements in this report are confect.   |            |
|  |            |
| and that all material, construction, and workmanship on this Repair conform to the National Board Inspection Code.  Notice of Personal IPS" Contificate of Authorization No.  89  Cexpires of December 127   | 006        |
| National Board "R" Certificate of Authorization No.  | <u>,00</u> |
| Date April/12 , 2006 PFAUDLER, INC Signed (authofized representative)  |            |
| (name of repair organization)  |            |
| CERTIFICATE OF INSPECTION  |            |
| I, Bruce Sawyer , holding a valid Commission issued by The National Board of Boiler and Pressure Vessel  |            |
| Inspectors and certificate of competency issued by the jurisdiction of New York and employed   | d bar      |
| HSB CT of Connecticut  |            |
| inspected the work described in this report on 3/12, 06 and state that to the best of my knowledge and belief  | _ hav      |
| this work complies with the applicable requirements of the National Board Inspection Code.   | _ hav      |
| By signing this certificate, peither the undersigned nor my employer makes any warranty, expressed or implied, concerning  | _ hav      |
| the work described in this report. Furthermore, neither the undersigned nor my employer shall be hable in any manner los   | _ hav      |
| any personal injury, property damage or loss of any kind arising from or connected with this inspection.   | _ hav      |
| Date 3/12, 06 Signed Size Saule Commissions US 10496 A NY 40   | _ hav      |
| Date 57.0 (National Board and jurisdiction, or   | _ hav      |