

CERTIFICATION OF WORK

(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: PA 079

Date of Visit: 3/26/19

Contractor Personnel on Site:

- |                         |          |
|-------------------------|----------|
| 1. <u>King Lewis</u>    | 4. _____ |
| 2. <u>Scott Werry</u>   | 5. _____ |
| 3. <u>Jim Geertgens</u> | 6. _____ |

Work Performed:

Preventive Maintenance - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

- |                |       |
|----------------|-------|
| 1. <u>7645</u> | _____ |
| 2. <u>7767</u> | _____ |
| 3. <u>8026</u> | _____ |
| 4. <u>7816</u> | _____ |

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: Jim Geertgens

Date: 3-26-19

Signed: [Signature]

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: Josh Sutton GS-11

Date: 26 Mar 19

Signed: [Signature]

E-Mail: joshua.e.sutton2.civ@mail.mil

OTHER RECURRING SERVICES CERTIFICATION OF WORK  
(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: Pc 079 Date of Visit: 3/26/19

Contractor Personnel on Site:

1. Tony Lazzarus
2. Jim Geertgens
3. Scott Warr
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

Work Performed:

Other Recurring Services

1. 7544
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: Jim Geertgens Date: 3-26-19

Signed: [Signature]

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: Josh Sutton GS-11 Date: 26 Mar 19

Signed: [Signature]

E-Mail: joshua.e.sutton2.civ@mail.mil

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

PAG 79-01

LOCATION/RM #: 126

WO# 7645

ASSET # 4839

MECHANIC

SIGNATURE: 

DATE:

3/20/15

START TIME:

8:00

FINISH TIME:

8:10

| CHECK NO.   | DESCRIPTION   | TESTS COMPLETED |    | NOTES/ACTIONS<br>(USE ADDITIONAL SHEETS TO PROVIDE EXPLANATION) |
|---|---|-----------------|----|---|
|   |   | YES             | NO |   |
|   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                 |    |   |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                 | /  |   |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | /               |    |   |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                 |    |   |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  | /               |    |   |
| 2   | Inspect couplings and check for any pump seal leaks.  | /               |    |   |
| 3   | Check motor mounts and vibration pads   | /               |    |   |
| 4   | Tighten all pump flanges.   | /               |    |   |
| 5   | Visually check pump alignment and coupling  | /               |    |   |
| 6   | Inspect electrical connections  | /               |    |   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.  
To be performed by: General Maintenance Worker

Additional Notes:

1 piece chilled water



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

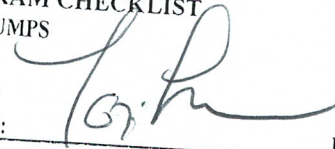
Pa 079-07

LOCATION/RM #:

WO# 764r

ASSET #

4840

MECHANIC  
SIGNATURE:


DATE: 3/25/19

START TIME:

FINISH TIME:

| CHECK POINT | CHECK POINT DESCRIPTION   | DEFECTS CONTINUED |    | NOTES/ACTIONS<br>(If inspection is required to provide information) |
|-------------|---|-------------------|----|---|
|             |   | YES               | NO |   |
|             | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                   |    |   |
| 2           | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                   |    |   |
| 3           | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. |                   |    |   |
|             | <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>   |                   |    |   |
| 1           | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  |                   |    |   |
| 2           | Inspect couplings and check for any pump seal leaks.  |                   |    |   |
| 3           | Check motor mounts and vibration pads   |                   |    |   |
| 4           | Tighten all pump flanges.   |                   |    |   |
| 5           | Visually check pump alignment and coupling  |                   |    |   |
| 6           | Inspect electrical connections  |                   |    |   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.  
To be performed by: General Maintenance Worker

Additional Notes:

Pump Does Not EXIST



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

PA 678-01

LOCATION/RM #: 219

WO# 7645

ASSET # 4853

MECHANIC

SIGNATURE: 

DATE:

3/26/19

START TIME:

9:15

FINISH TIME:

9:25

| CHECK NO. | CHECKPOINT DESCRIPTION  | PASS/COMPLIANT |    | NOTES/ACTIONS<br>(If not compliant, attach photo and provide explanation) |
|-----------|---|----------------|----|---|
|           |   | YES            | NO |   |
|           | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                | /  |   |
| 2         | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                | /  |   |
| 3         | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | /              |    |   |
|           | <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b>   |                |    |   |
| 1         | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  |                | NA |   |
| 2         | Inspect couplings and check for any pump seal leaks.  |                | NA |   |
| 3         | Check motor mounts and vibration pads   |                | NA |   |
| 4         | Tighten all pump flanges.   | /              |    |   |
| 5         | Visually check pump alignment and coupling  | /              |    |   |
| 6         | Inspect electrical connections  | /              |    |   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

CamDensade Pump

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

FA 079-01

LOCATION/RM #:

Bldg 102

WO#

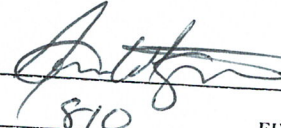
7645

ASSET #

4902

MECHANIC

SIGNATURE:



DATE:

3/26/19

START TIME:

810

FINISH TIME:

820

| CHECKLIST<br>ITEM                                 | CHECKLIST DESCRIPTION   | TESTS/COMPLIANCE |    | NOTES/ACTIONS<br>(If tests complete, check box and provide explanation) |
|---|---|------------------|----|---|
|   |   | YES              | NO |   |
| 1   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                  |    |   |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                  | ✓  |   |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. |                  | ✓  |   |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                  |    |   |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  | ✓                |    |   |
| 2   | Inspect couplings and check for any pump seal leaks.  | ✓                |    |   |
| 3   | Check motor mounts and vibration pads   | ✓                |    |   |
| 4   | Tighten all pump flanges.   | ✓                |    |   |
| 5   | Visually check pump alignment and coupling  | ✓                |    |   |
| 6   | Inspect electrical connections  | ✓                |    |   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

CP 1



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

PA079-01

LOCATION/RM #:

B-101

WO#

7645

ASSET #

4910

MECHANIC

SIGNATURE:



DATE:

3/26/19

START TIME:

8:10

FINISH TIME:

8:20

| ITEM NO.  | CHECKPOINT DESCRIPTION  | TESTS/COMPLIANCE |    | NOTES/ACTIONS<br>(If tests completed, check box and provide explanation) |
|---|---|------------------|----|--|
|   |   | YES              | NO |  |
|   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                  |    |  |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                  | ✓  |  |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | ✓                |    |  |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                  |    |  |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  |                  | ✓  |  |
| 2   | Inspect couplings and check for any pump seal leaks.  |                  | ✓  | SEAL OK  |
| 3   | Check motor mounts and vibration pads   | ✓                |    |  |
| 4   | Tighten all pump flanges.   | ✓                |    |  |
| 5   | Visually check pump alignment and coupling  | ✓                |    |  |
| 6   | Inspect electrical connections  | ✓                |    |  |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

CP-2



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

Pc 078-01

LOCATION/RM #

301en  
Rm

WO# 764r

ASSET #

4813

MECHANIC

SIGNATURE:



DATE: 3/28/18

START TIME:

820

FINISH TIME:

830

| CHECK POINT                                       | CHECKPOINT DESCRIPTION  | TESTS REQUIRED |    | NOTES/ACTIONS<br>(IF TESTS COMPLETED, CHECKED, NO, PROVIDE EXPLANATION) |
|---|---|----------------|----|---|
|   |   | YES            | NO |   |
| <b>SPECIAL INSTRUCTIONS</b>                       |   |                |    |   |
|   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                |    |   |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                | ✓  |   |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | ✓              |    |   |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                |    |   |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication at least annually.   | ✓              |    |   |
| 2   | Inspect couplings and check for any pump seal leaks.  | ✓              |    |   |
| 3   | Check motor mounts and vibration pads   | ✓              |    |   |
| 4   | Tighten all pump flanges.   | ✓              |    |   |
| 5   | Visually check pump alignment and coupling  | ✓              |    |   |
| 6   | Inspect electrical connections  | ✓              |    |   |

3.5 AMPs

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

CP-3

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #: Pa 079 - G1LOCATION/RM #: Boiler room WO# 7645 ASSET # 4915

MECHANIC

SIGNATURE: [Signature]DATE: 3/26/19START TIME: 830FINISH TIME: 835

| CHECKLIST<br>ITEM NO.                             | CHECKLIST DESCRIPTION   | TESTS/COMPLIANCE |    | NOTES/ACTIONS<br>(IF TESTS COMPLETED, DISCHARGE AND PROVIDE EXPLANATION) |
|---|---|------------------|----|--|
|   |   | YES              | NO |  |
| 1   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                  | —  |  |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                  | —  |  |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | —                |    |  |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                  |    |  |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  | ✓                |    |  |
| 2   | Inspect couplings and check for any pump seal leaks.  | —                |    |  |
| 3   | Check motor mounts and vibration pads   | —                |    |  |
| 4   | Tighten all pump flanges.   | —                |    |  |
| 5   | Visually check pump alignment and coupling  | —                |    |  |
| 6   | Inspect electrical connections  | —                |    |  |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.  
To be performed by: General Maintenance Worker

Additional Notes:

CP - 6



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

P 079-01

LOCATION/RM #:

Boiler

WO# 7645

ASSET #

4917

MECHANIC

SIGNATURE:



DATE:

3/26/19

START TIME:

830

FINISH TIME:

835

| CHECK NO.   | CHECK POINT DESCRIPTION   | PASS/COMPLIANT |    | NOTES/ACTIONS<br>(If not completed, attach photo and provide explanation) |
|---|---|----------------|----|---|
|   |   | YES            | NO |   |
|   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                |    |   |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                |    |   |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. |                |    |   |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                |    |   |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  |                |    |   |
| 2   | Inspect couplings and check for any pump seal leaks.  |                |    | Seal OK   |
| 3   | Check motor mounts and vibration pads   |                |    |   |
| 4   | Tighten all pump flanges.   |                |    |   |
| 5   | Visually check pump alignment and coupling  |                |    |   |
| 6   | Inspect electrical connections  |                |    |   |
|   |   |                |    | 4.7 amps  |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

CP-7



# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

P. 078-01

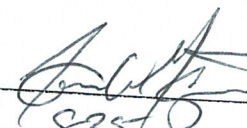
LOCATION/RM #: Boiler Room

WO# 764r

ASSET #

491E

MECHANIC

SIGNATURE: 

DATE:

3/20/12

START TIME:

8:35

FINISH TIME:

8:40

| CHECK NO.   | CHECKPOINT DESCRIPTION  | TESTS CONTINUED |    | NOTES/ACTIONS<br>(If tests completed check box or provide explanation) |
|---|---|-----------------|----|--|
|   |   | YES             | NO |  |
|   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                 |    |  |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                 | ✓  |  |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | ✓               |    |  |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                 |    |  |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  |                 | ✓  |  |
| 2   | Inspect couplings and check for any pump seal leaks.  |                 | ✓  | SEALS  |
| 3   | Check motor mounts and vibration pads   | ✓               |    |  |
| 4   | Tighten all pump flanges.   | ✓               |    |  |
| 5   | Visually check pump alignment and coupling  | ✓               |    |  |
| 6   | Inspect electrical connections  | ✓               |    | 1.5 hr   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.  
To be performed by: General Maintenance Worker

Additional Notes:

CP &amp;

# PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST CIRCULATING AND BOOSTER PUMPS

SITE AND BLDG #:

PA 67A - G1

LOCATION/RM #:

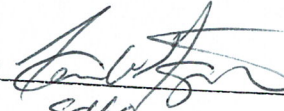
Boiler Room

WO# 7645

ASSET # 5000

MECHANIC

SIGNATURE:



DATE:

3/26/17

START TIME:

840

FINISH TIME:

845

| CHECK NO.   | CHECK DESCRIPTION   | LEAKS/CONTAMINATION |    | NOTES/ACTIONS<br>(If any component is checked, provide explanation) |
|---|---|---------------------|----|---|
|   |   | YES                 | NO |   |
| 1   | In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.  |                     | ✓  |   |
| 2   | Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.   |                     | ✓  |   |
| 3   | It is generally not a good idea to tamper with pumps using mechanical seals if they are otherwise performing properly. Since mechanical seals can cost as much as the pump, it is usually not cost effective to risk damaging the seal by performing an annual internal inspection of the pump. | ✓                   |    |   |
| <b>TO BE PERFORMED AT EACH INSPECTION SERVICE</b> |   |                     |    |   |
| 1   | Lubricate pump and motor bearings as per manufacturer's specifications. Bearings require lubrication atleast annually.  | ✓                   |    |   |
| 2   | Inspect couplings and check for any pump seal leaks.  | ✓                   |    |   |
| 3   | Check motor mounts and vibration pads   | ✓                   |    |   |
| 4   | Tighten all pump flanges.   | ✓                   |    |   |
| 5   | Visually check pump alignment and coupling  | ✓                   |    |   |
| 6   | Inspect electrical connections  | ✓                   |    |   |
|   |   | 4.5 + 3.7 hrs       |    |   |

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed discription of the deficiency.  
To be performed by: General Maintenance Worker

Additional Notes:

2 Piece for broken pump