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1. FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
 2. 1/2" MECHANICAL SEAL FLUSH TO BE CONNECTED TO PUMP, ORIFICE TO BE SUPPLIED BY VENDOR.
 3. PG TO BE LOCATED IN VIEW OF JETS.
 4. DELETED.
 5. LINE TO BE CONNECTED AT BOTTOM OF PIPING.
 6. FLAMMABLE GAS DETECTOR TO BE PROVIDED NEAR VENT POINT.
 7. REFER TO WRITE-UP BY CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
 8. MIN. FLOW SET VALUE TO BE OVERRIDDEN TO THE TWO PUMP MIN FLOW CAPACITY IN CASE OF BOTH PUMP OPERATION.
 9. DELETED.
 10. DELETED.

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|---|------------------------------------|---|-----------------------|----------|
| 1 | RE-ISSUED FOR CONSTRUCTION (AFC-3) | TS ABA | DU HOW ANS HK US V L | 14/11/13 |
| 2 | RE-ISSUED FOR CONSTRUCTION (AFC-2) | TS ABA | DU HOW AH HK US V L | 28/6/13 |
| 3 | RE-ISSUED FOR CONSTRUCTION (AFC-1) | TS ABA | DU HOW AH HK US V L | 10/6/13 |
| 4 | ISSUED FOR CONSTRUCTION (AFC) | EB ABA | DU RW AH HK US V L | 26/11/12 |
| 5 | ISSUED FOR APPROVAL (AFO-1) | EB ABA | DU RW U HK US V L | 29/6/12 |
| 6 | ISSUED FOR APPROVAL (AFO) | EB ABA | DU RW U HK US V L | 29/6/12 |
| 7 | ISSUED FOR APPROVAL (AFO-2) | EB ABA | JAK YSH BOP HK SH V L | 14/6/12 |
| 8 | ISSUED FOR DETAIL DESIGN (AFT-2) | EB ABA | JAK YSH BOP HK SH V L | 14/6/12 |
| 9 | REV. DESCRIPTION | DRW CHD DESO CHD APVD APV AUTO ISSUE DATE | | |

REVISIONS
 PROJECT NAME : KALTIM-5 PROJECT
 2500 MTPD AMMONIA AND 3500 MTPD UREA
 BONTANG, EAST KALIMANTAN, INDONESIA
 CLIENT NAME : PUPUK KALTIM
 PT. PUPUK KALIMANTAN TIMUR

Engineering Services by
 KBR Technical Services, Inc.

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 Toyo Engineering Corporation

ABBR. FOR ISSUE : C-CLIENT
 S-SUPPLIER
 S-SITE
 V-VENDOR

ISSUE MARK : 14-Nov-13

CONTRACTOR WORK NUMBER : 10107 / BA096300 / 11-018-01

PIPING & INSTRUMENT FLOW DIAGRAM
 102-JTC SURFACE CONDENSER

SCALE : DWG. NO. K5-01-E1-PD-13J-T

DOC. NO. K5-01-E1-PD-049-T SHEET 049/073 REV.8

| | |
|---------------------|---------------------------------|
| 114-J/JA | CONDENSATE PUMP FOR 102-JTC |
| SEAL PLAN MOD 11 | |
| DESIGN CAPACITY | m ³ /h 16.2 |
| SUCT./DISCH. | kg/cm ² G -0.63/9.41 |
| HEAD/NPSHR | m 102/1.7 |
| TYPE OF SEAL | MECH. SEAL |
| POWER | kW 15.53 |
| MAT. CASING/IMPELL. | A216 WCB/A487 CAGNM |

| | |
|-----|------------------------|
| 13K | TO POLISHER/DEMIN UNIT |
|-----|------------------------|