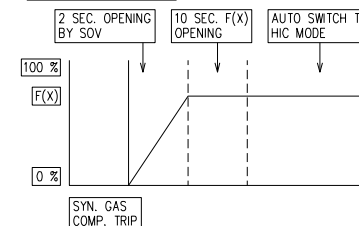


NOTES

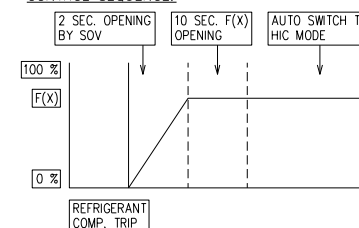
1. FOR GENERAL NOTES AND SYMBOLS SEE DRAWING 4A, 4B.
2. DESUPERHEATER SHOULD LOCATE HIGHER THAN SM HEADER.
3. DELETED.
4. REFER TO WRITE-UP BY CONTROL SYSTEMS ENGINEERING FOR INTERLOCK DESCRIPTION.
5. DELETED.
6. DELETED.
7. DELETED.
8. SYN GAS COMP. (103-J) SHUTDOWN IS INTERLOCKED TO HP/MP STEAM LETDOWN VALVE (HV-1012A) OPEN TO PRESET.

CONTROL SEQUENCE:



9. REFRIGERATION COMP. (105-J) SHUTDOWN IS INTERLOCKED TO HP/MP STEAM LETDOWN VALVE (HV-1012B) OPEN TO PRESET.

CONTROL SEQUENCE:



REV.	DESCRIPTION	DATE	BY	CHKD	APPD	DATE	BY	CHKD	APPD
1	RE-ISSUED FOR CONSTRUCTION (AFC-3)	14/11/13	TS	ABA	DU	14/11/13	TS	ABA	DU
2	RE-ISSUED FOR CONSTRUCTION (AFC-2)	25/06/13	TS	ABA	DU	25/06/13	TS	ABA	DU
3	RE-ISSUED FOR CONSTRUCTION (AFC-1)	10/04/13	TS	ABA	DU	10/04/13	TS	ABA	DU
4	ISSUED FOR CONSTRUCTION (AFC)	25/11/12	EB	ABA	DU	25/11/12	EB	ABA	DU
5	RE-ISSUED FOR APPROVAL (AFD-1)	29/06/12	EB	ABA	DU	29/06/12	EB	ABA	DU
6	ISSUED FOR APPROVAL (AFD)	22/04/12	EB	ABA	DU	22/04/12	EB	ABA	DU
7	ISSUED FOR DETAIL DESIGN (ATP-2)	14/02/12	EB	ABA	DU	14/02/12	EB	ABA	DU

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

KBR Engineering Services by
KBR Technical Services, Inc.

THIS DOCUMENT/ SOFTWARE CONTAINS TECHNICAL INFORMATION THAT IS SUBJECT TO U.S. EXPORT CONTROL REGULATIONS, INCLUDING RESTRICTIONS ON THE EXPORT, SALE OR TRANSFER OF U.S. ORIGIN ITEMS (TOOLS, TECHNOLOGY OR SOFTWARE) TO SANCTIONED/ EMBARGOED COUNTRIES, ENTITIES OR PERSONS. IT MAY NOT BE EXPORTED OR RE-EXPORTED EXCEPT AS AUTHORIZED UNDER APPLICABLE U.S. EXPORT CONTROL REQUIREMENTS.


THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO KELLOGG BROWN & ROOT. THIS INFORMATION IS TO BE HELD IN CONFIDENCE. NO DISCLOSURE, REPRODUCTION OR OTHER USE OF THIS DOCUMENT IS TO BE MADE WITHOUT THE PRIOR WRITTEN CONSENT OF KELLOGG BROWN & ROOT.

THIS DRAWING EMBODIES PROPRIETARY INFORMATION OF TOYO ENGINEERING CORPORATION. THE DRAWING OR THE MATERIAL DISCLOSED THEREIN MAY NOT BE COPIED OR DISCLOSED IN ANY FORM OR MEDIUM TO THIRD PARTIES FOR USE OTHER THAN THE PURPOSE FOR WHICH IT HAS BEEN PROVIDED. KNOCKDOWN, REUSE OR IN PART IN ANY MANNER EXCEPT AS EXPRESSLY PERMITTED BY TOYO ENGINEERING CORPORATION.

CONTRACTOR :
PT. PUPUK KALIMANTAN TIMUR **TOYO ENGINEERING CORPORATION**

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

PIPING & INSTRUMENT FLOW DIAGRAM
STEAM DISTRIBUTION SYSTEM (2)

SCALE :  DWG. NO. K5-01-E1-PD-13F-T
DOC. NO. K5-01-E1-PD-046-T SHEET 046/073 REV.8