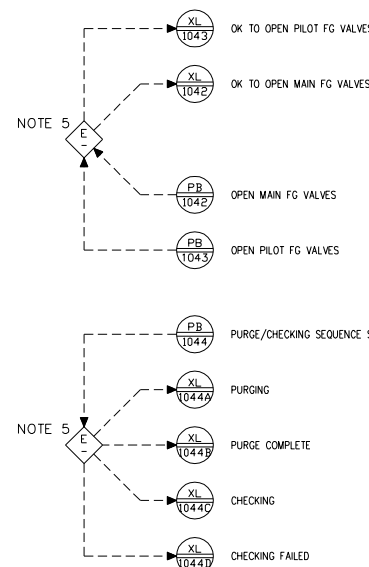



- START-UP HEATER CHECKING/LIGHT-OFF
- 
- CONTROLS PURGE CHECKING SEQUENCE



8	RE-ISSUED FOR CONSTRUCTION (AFC-3)	TS	ABA	DU	HQB	ANS	HK	US	L	V	1/11/17	
7	RE-ISSUED FOR CONSTRUCTION (AFC-2)	TS	ABA	DU	HQB	AM	HK	US	L	V	1/10/17	
6	RE-ISSUED FOR CONSTRUCTION (AFC-1)	TS	ABA	DU	HQB	AH	HK	US	L	V	1/10/17	
5	ISSUED FOR CONSTRUCTION (AFC)	EB	ABA	DU	RH	AH	SHL	US	L	V	2/6/17	
4	RE-ISSUED FOR APPROVAL (AFD-1)	EB	ABA	DU	RH	LI	SHL	US	L	V	2/26/17	
3	ISSUED FOR APPROVAL (AFD)	EB	ABA	DU	RH	LI	SHL	US	L	V	2/26/17	
2	ISSUED FOR DETAIL DESIGN (APP-2)	EB	ABA	DU	JKS	BPB	HN	SHL	US	L	V	1/4/17
REV.	DESCRIPTION	DRWN	CHGD	DESIG	CHGD	APRD	APRD	APRD	APRD	APRD	DATE	

PROJECT NAME :		KALTIM-5 PROJECT 2500 MTPD AMMONIA AND 3500 MTPD UREA BONTANG, EAST KALIMANTAN, INDONESIA
CLIENT NAME :		 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 (GOODS, 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  
THIS DRAWING OR THE MATERIAL DESCRIBED THEREON MAY NOT BE COPIED OR DISCLOSED  
IN ANY FORM OR MEDIUM TO THIRD PARTIES, OR USED FOR OTHER THAN THE PURPOSE FOR  
WHICH IT HAS BEEN PROVIDED, IN WHOLE OR IN PART IN ANY MANNER EXCEPT AS EXPRESSLY  
PERMITTED BY TOYO ENGINEERING CORPORATION.

ABBR. FOR ISS  
C=CLIENT  
U=UNCLAS  
S=SECRET  
M=UNCLAS

CONTRACTOR :	V=VENDOR ISSUE MARK
 <b>PT. INTI KARYA PERSADA TEKNIK</b> ENGINEERING & CONSULTING	 <b>Toyo ENGINEERING CORPORATION</b>

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

PIPING & INSTRUMENT FLOW DIAGRAM  
FUEL GAS START-UP HEATER BURNERS

SCALE	$\propto$	DWG. NO.	K5-01-E1-PD-19C-T
-------	-----------	----------	-------------------

DOC. NO.	K5-01-E1-PD-061-T	SHEET 061/073	REV.
----------	-------------------	---------------	------

A horizontal number line with tick marks. A vertical line segment is drawn from the number line to the label 'L' below it. Another vertical line segment is drawn from the number line to the label 'M' below it. The segment of the number line between these two points is labeled 'L' and 'M' respectively.