







<b>Contractor:</b>  <b>TIANCHEN CORP. CHINA</b>	<b>Project :</b>	<b>MKP Methanol Project</b>			<b>Owner :</b>  شرکت کیمیای پارس خاورمیانه <b>Middle East Kimiya Parsa Co.</b>
	<b>Unit</b>	<b>Flare</b>	<b>Phase</b>	<b>Detail Engineering</b>	
	<b>Doc. Title :</b>	<b>Utility Consumption</b>			
<b>Vendor:</b>  <b>SUNPOWER GROUP LTD.</b>	<b>Owner No.</b>	<b>MKP-VD-8500-237-303-A4</b>			
	<b>Contr. No.:</b>	<b>MKP-11-DE-9000-FE-REQ-237</b>			
	<b>Vendor No.</b>	<b>17013D85000PE00-07</b>			
				<b>Rev. : 0</b>	<b>Page : 1 of 3</b>




## Utility Consumption

REV.	DATE	PURPOSE OF ISSUE	PREPARE	CHECK	REVIEW	APPROVE
0	19.09.2017	Final Issue	Geng Yunfei	Bai Yang	Ji Ningbo	
A	27.05.2017	Issued For Comments	Geng Yunfei	Bai Yang	Ji Ningbo	

<b>Contractor:</b>  <b>TIANCHEN CORP. CHINA</b>	<b>Project :</b>	<b>MKP Methanol Project</b>			<b>Owner :</b>  شرکت کیمیای پارس خاورمیانه <i>Middle East Kemiya Pars Co.</i>
	<b>Unit</b>	<b>Flare</b>	<b>Phase</b>	<b>Detail Engineering</b>	
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	<b>Vendor No.</b>	<b>17013D85000PE00-07</b>			
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	<b>Unit</b>	<b>Flare</b>	<b>Phase</b>	<b>Detail Engineering</b>	
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## Utility Consumption

No.	Name	Specs.	Consumption		Purpose
			discontinuous	continuous	
1	Fuel Gas	3.0bar(g) 35°C	NA	8Nm <sup>3</sup> /hr	Pilots (PIL-8501A-D)
			5Nm <sup>3</sup> /hr (Note1)	NA	FFG (X-8501)
			610Nm <sup>3</sup> /hr	40Nm <sup>3</sup> /hr (Note2)	Purge Gas (FL-8501)
2	Instrument Air	8.0bar(g) 35°C	50Nm <sup>3</sup> /hr (Note1)	NA	FFG (X-8501)
			NA	10Nm <sup>3</sup> /hr	Pneumatic Valves / Positive Pressure for PLC
			NA	2Nm <sup>3</sup> /hr	Positive Pressure for UPS
3	HP Steam	34.0bar(g) 345°C	1.5t/h	NA	Smokeless and Anti-fire Protection / Knock-Out Drum Heat Tracing

**NOTE:**

1. The consumption of fuel gas and instrument air is used for lighting single pilot at the same time via FFG skid.
2. Upstream of flare header has 50Nm<sup>3</sup>/hr N<sub>2</sub> purging.