	DOC	UMENT	REGIST	ER					
CLIENT						PROJECT #			MSC MARS SPACE CONSTRUCTION, LLC
						REV NO #			
PROJECT T	TITLE								CONSTRUCTION, LLC
	Mars Colony					DATE			
DOCUMENT	Document Type	%	STATUS			EDULED ISSUE DA			NOTES
COUNT		COMPLETE		IFR	IFA	IFB	IFP	IFC	
	Total Document Register								
	Engineering General Documents								
	Design General Documents								
	PFD's								
	P&ID's								
	Pipe Specs								
19	Engineering System Codes								
	MSDS Data Sheets								
	GA - General Arrangements								
	Equipment								
	Piping								
	Structural								
	Instrumentation								
	Electrical								
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Action Items List	Template											
Cash Expense Report	Template											
Change Order Form	Template											
Const Progress and Work Hours	Template											
Discipline Activity Status Report	Template											
Engineering Task List	Template											
Engineering Progress and Work Hours	Template											
Equipment Timesheets	Template											
Project Status Report	Template											
Project Trend Log	Template											
Project Progress Curves	Template											
RFI_	Template											
Safety Report Temp.	Template											
ENG-MarsBase-001	Line List											
ENG-MarsBase-002	Master Equipment List											
ENG-MarsBase-003	Plant Line Sizing											

		DOCUMENT REGISTER - Des	sign Ge	neral Do	cuments	S				14.0			
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DES-Starship-001	4	Starship - MSC Starship Module Definition List	A	06/10/2021									
DES-Starship-002		Starship Module - MSC Command & Communications	A	06/10/2021					-				
DES-Starship-003		Starship Module - MSC_Equipment_Storage	A	06/10/2021					-				
DES-Starship-004	-	Starship Module - MSC_Farming	A	06/10/2021									
DES-Starship-005		Starship Module - MSC_Food	A	06/10/2021 06/10/2021									
DES-Starship-006		Starship Module - MSC_Greenhouse	A	06/10/2021									
DES-Starship-007 DES-Starship-008	*.xls *.xls	Starship Module - MSC_Habitat Starship Module - MSC_Manufacturing	A A	06/10/2021					+				
DES-Starship-009		Starship Module - MSC_Manufacturing Starship Module - MSC_Medical	A A	06/10/2021					+	_			
DES-Starship-010		Starship Module - MSC_Medical Starship Module - MSC_Oxygen Generation	Α	06/10/2021			+		+				+
DES-Starship-010		Starship Module - MSC_Oxygen Generation Starship Module - MSC Power Generation Nuclear	A	06/10/2021			+		+	-			+
DES-Starship-012		Starship Module - MSC_Power_Generation Nuclear Starship Module - MSC_Power_Generation Solar Array	A	06/10/2021			+		+	-			+
DES-Starship-013		Starship Module - MSC_Rocket_Propellant_Generation	A	06/10/2021			1		1				
DES-Starship-014		Starship Module - MSC_Science_Lab	A	06/10/2021			1		1				
DES-Starship-015	*.xls	Starship Module - MSC Utility	A	06/10/2021			1		1				
DES-Starship-016		Starship Module - MSC Vehicles	A	06/10/2021			1		1				
DES-Starship-017		Starship Module - MSC_Water_Processing	A	06/10/2021									
DES-Starship-018	*.xls	MSC Mars Space Base Design Analog Definition	A	06/10/2021									
DES-Starship-019	.Ale	open	,,	00/10/2021									
DES-Starship-020		open		1 1									
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DES-Starship-024		open		1 1									
DES-Starship-025		open		1 1									
3D Modeling Library	*.xls	Design & Drafting Standards		1 1									
3D Piping Area Model Setup		Design & Drafting Standards											
18 Wheeler Turn Radius Spec		Design & Drafting Standards											
Bolt Lengths		Design & Drafting Standards											
Book of Knowledge		Design & Drafting Standards											
Bulk Material Purchase		Design & Drafting Standards											
cad standards	-	Design & Drafting Standards											
Design Instructions		Design & Drafting Standards											
Design Service Request (estimate		Design & Drafting Standards											
Drafting Manual Rev		Design & Drafting Standards											
Engineering Drafting Standards		Design & Drafting Standards		1									
helpful calculators		Design & Drafting Standards		1									
Iso Control		Design & Drafting Standards											
P&ID Change Log form		Design & Drafting Standards											
Pipe-Steel Book	*.xls	Design & Drafting Standards											
Piping Project		Design & Drafting Standards											
Squad Check Form	*.doc	Design & Drafting Standards											
Squad Check Guidelines	-	Design & Drafting Standards		1					1				
DES-Projects-026		MSC Mars Design Projects List	А	06/11/2021					1				
DES-Projects-027		MSC Gas Scooter	А	06/11/2021									
DES-Projects-028	-	MSC Habitat Design	А	06/11/2021					1				
DES-Projects-029		MSC Gas Transport Vehicle	А	06/11/2021					1				
DES-Projects-030		MSC Helicopter & Drone	А	06/11/2021					1				
DES-Projects-031	*.doc	MSC Rocket Propellant Plant	А	06/11/2021									
DES-Projects-032		MSC Mining in Space	А	06/11/2021							ĺ		
DES-Projects-033		MSC Radiation	А	06/11/2021					1				
DES-Projects-034	4	MSC Robot or Small Sytems	А	06/11/2021									
DES-Projects-035		MSC Water Well	А	06/11/2021									

DES-Projects-036	*.doc	MSC Space Port	Α	06/11/2021					
DES-Projects-038		Open							
DES-Projects-039		Open							
DES-Projects-040		Open							
DES-Projects-041		Open							
DES-Projects-042		Open							
DES-Projects-043		Open							
DES-Projects-044		Open							
DES-Projects-045		Open							
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MSC-D-XXXX-P03-100	HAZARDIOUS DESIGN ZONES	А	06/08/2021						80%		IN PROGRESS	PRELIMINARY
MSC-D-XXXX-P04-100	ROCKET PADS #1, #2, #3 - UTILITY SERVICES	А	06/08/2021						75%		IN PROGRESS	
MSC-D-XXXX-P04-101	LAUNCH FACILITIES - UTILITY SERVICES	А	06/08/2021						75%		IN PROGRESS	
MSC-D-XXXX-P04-102	PROPELLANT PLANT - UTILITY SERVICES	Α	06/08/2021						50%		IN PROGRESS	
MSC-D-XXXX-P04-103	LABORATORY FACILITIES - UTILITY SERVICES	Α	06/08/2021						10%		IN PROGRESS	
MSC-D-XXXX-P04-104	GREENHOUSES - UTILITY SERVICES	A	06/08/2021		1	1	<u> </u>	1	10%		IN PROGRESS	
MSC-D-XXXX-P04-105	COMMODITY PRESSURIZED GAS/LIQUID STORAGE	Α	06/08/2021		1	1		1	50%		IN PROGRESS	
MSC-D-XXXX-P04-106	ICE / ORE PROCESSING	Α	06/08/2021						10%		IN PROGRESS	
MSC-D-XXXX-P04-107	POWER PLANT - SOLAR	Α	06/08/2021						10%		IN PROGRESS	
MSC-D-XXXX-P04-108	POWER PLANT - NUCLEAR	A	06/08/2021						10%		IN PROGRESS	
MSC-D-XXXX-P04-109	OPEN											
MSC-D-XXXX-P04-110	OPEN											
MSC-D-XXXX-P04-120	PROCESS FLOW RATE CHART	Α	06/08/2021						10%		IN PROGRESS	PRELIMINARY
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MOC.D-XXXX-P05-100 OPEN A 6606X2071	DOCUMENT NAME/NO	DESCRIPTION/TITLE	LATES	ST REVISION		SC	HEDULED ISSUE D	ATES		%	CIZE	CTATUS	DEMARKS
MSC_D-000CP05-101	DOCUMENT NAME/NO.	DESCRIPTION/TITLE	NO	DATE	IFR	IFA	IFB	IFP	IFC	COMPLETE	SIZE	STATUS	REMARKS
MSC_DXXXX-P65-102	MSC-D-XXXX-P05-100	OPEN	Α	06/08/2021						0%			
MSC_D-XXXX-P9-103	MSC-D-XXXX-P05-101	P&ID LEGEND (SHT 1 OF 7)	Α	06/08/2021						90%		IN PROGRESS	PRELIMINARY
MSC_D-XXXXCP_PS-104	MSC-D-XXXX-P05-102	P&ID LEGEND (SHT 2 OF 7)	Α							90%		IN PROGRESS	PRELIMINARY
MSC_D-XXXX_PDS_105	MSC-D-XXXX-P05-103	P&ID LEGEND (SHT 3 OF 7)	Α	06/08/2021						90%		IN PROGRESS	PRELIMINARY
MSC-DXXXX-P65-09 PAD LEGENQ (SHT 0 OF 7) A 06/08/2021 50% IN PROGRESS PRELIMINARY MSC-DXXXX-P05-107 PAD LEGENQ (SHT 7 OF 7) A 06/08/2021 50% IN PROGRESS PRELIMINARY MSC-DXXXX-P05-108 OPEN	MSC-D-XXXX-P05-104	P&ID LEGEND (SHT 4 OF 7)	Α	06/08/2021						80%		IN PROGRESS	PRELIMINARY
MSC-D-XXXX-PDS-107	MSC-D-XXXX-P05-105	P&ID LEGEND (SHT 5 OF 7)	Α	06/08/2021						50%		IN PROGRESS	PRELIMINARY
MSC-D-XXXX-PD5-109 OPEN MSC-D-XXXX-PD5-209 OPEN MSC-D-XXXX-PD5-209 RCOKET PADS #1 - UTILITY SERVICES MSC-D-XXXX-PD5-209 RCOKET PADS #2 - UTILITY SERVICES MSC-D-XXXX-PD5-209 RCOKET PADS #2 - UTILITY SERVICES MSC-D-XXXX-PD5-209 OPEN MSC-D-XXXX-PD5-219 OPEN MSC-D-XXXX-PD5-229 OPEN MSC-D-XXX	MSC-D-XXXX-P05-106	P&ID LEGEND (SHT 6 OF 7)	Α	06/08/2021						50%		IN PROGRESS	PRELIMINARY
MSC-D-XXXX-PD5-202 PROKET PADS #1 - UTILITY SERVICES PROKET PADS #2 - UTILITY SERVICES PROKET PADS #3 - UTILITY SERVICES PROKET PADS *4 - UTIL	MSC-D-XXXX-P05-107	P&ID LEGEND (SHT 7 OF 7)	Α	06/08/2021						50%		IN PROGRESS	PRELIMINARY
MSC-D-XXXX-P05-200	MSC-D-XXXX-P05-108	OPEN											
MSC-D-XXXX-P05-200 ROCKET PADS #1 - UTILITY SERVICES MSC-D-XXXX-P05-201 ROCKET PADS #3 - UTILITY SERVICES MSC-D-XXXX-P05-202 ROCKET PADS #3 - UTILITY SERVICES MSC-D-XXXX-P05-203 OPEN MSC-D-XXXX-P05-203 OPEN MSC-D-XXXX-P05-204 OPEN MSC-D-XXXX-P05-205 LAUNCH FACILITIES - UTILITY SERVICES MSC-D-XXXX-P05-206 OPEN MSC-D-XXXX-P05-207 OPEN MSC-D-XXXX-P05-207 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-210 OPEN MSC-D-XXXX-P05-220 OPEN MSC-D-X	MSC-D-XXXX-P05-109	OPEN											
MSC-D-XXXX-P05-201	MSC-D-XXXX-P05-110	OPEN											
MSC-D-XXXX-P05-201													
MSC-D-XXXX-P05-201													
MSCD-XXXX-P05-202 ROCKET PADS #3 - UTILITY SERVICES MSCD-XXXX-P05-203 OPEN MSCD-XXXX-P05-204 OPEN MSCD-XXXX-P05-205 LAUNCH FACILITIES - UTILITY SERVICES MSCD-XXXX-P05-206 OPEN MSCD-XXXX-P05-207 OPEN MSCD-XXXX-P05-207 OPEN MSCD-XXXX-P05-208 PROPELLANT PLANT - UTILITY SERVICES MSCD-XXXX-P05-209 OPEN MSCD-XXXX-P05-209 OPEN MSCD-XXXX-P05-209 OPEN MSCD-XXXX-P05-210 OPEN MSCD-XXXX-P05-211 OPEN MSCD-XXXX-P05-212 OPEN MSCD-XXXX-P05-212 OPEN MSCD-XXXX-P05-213 LABORATORY FACILITIES - UTILITY SERVICES MSCD-XXXX-P05-213 LABORATORY FACILITIES - UTILITY SERVICES MSCD-XXXX-P05-215 OPEN MSCD-XXXX-P05-216 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-216 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-219 COMMOUNTY PRESSURIZED GAS/LIQUID STORAGE MSCD-XXXX-P05-219 COMMOUNTY PRESSURIZED GAS/LIQUID STORAGE MSCD-XXXX-P05-221 OPEN MSCD-XXXX-P05-222 OPEN MSCD-XXXX-P05-222 OPEN MSCD-XXXX-P05-223 OPEN MSCD-XXXX-P05-224 OPEN MSCD-XXXX-P05-225 OPEN MSCD-XXXX-P05-225 OPEN MSCD-XXXX-P05-225 OPEN MSCD-XXXX-P05-226 OPEN MSCD-XXXX-P05-226 OPEN MSCD-XXXX-P05-226 OPEN MSCD-XXXX-P05-227 OPEN	MSC-D-XXXX-P05-200	ROCKET PADS #1 - UTILITY SERVICES											
MSC-D-XXXX-P05-203	MSC-D-XXXX-P05-201	ROCKET PADS #2 - UTILITY SERVICES											
MSC-D-XXXX-P05-204 OPEN MSC-D-XXXX-P05-205 LAUNCH FACILITIES - UTILITY SERVICES MSC-D-XXXX-P05-207 OPEN MSC-D-XXXX-P05-207 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-210 OPEN MSC-D-XXXX-P05-211 OPEN MSC-D-XXXX-P05-211 OPEN MSC-D-XXXX-P05-212 OPEN MSC-D-XXXX-P05-212 OPEN MSC-D-XXXX-P05-214 OPEN MSC-D-XXXX-P05-215 OPEN MSC-D-XXXX-P05-216 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-219 GREENHOUSES - UTILITY SERVICES MSC-D-XXXX-P05-210 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-222 OPEN MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-224 OPEN MSC-D-XXXX-P05-225 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-227 OPEN OPEN OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-227 OPEN OPEN OPEN OPEN OPEN OPEN OPEN OPEN	MSC-D-XXXX-P05-202	ROCKET PADS #3 - UTILITY SERVICES											
MSC-D-XXXX-P05-206	MSC-D-XXXX-P05-203	OPEN											
MSC_D-XXXX_P05-206 OPEN	MSC-D-XXXX-P05-204	OPEN											
MSCD-XXXX-P05-207 OPEN MSCD-XXXX-P05-208 PROPELLANT PLANT - UTILITY SERVICES MSCD-XXXX-P05-209 OPEN MSCD-XXXX-P05-210 OPEN MSCD-XXXX-P05-211 OPEN MSCD-XXXX-P05-211 OPEN MSCD-XXXX-P05-212 OPEN MSCD-XXXX-P05-213 LABORATORY FACILITIES - UTILITY SERVICES MSCD-XXXX-P05-214 OPEN MSCD-XXXX-P05-215 OPEN MSCD-XXXX-P05-216 GREENHOUSES - UTILITY SERVICES MSCD-XXXX-P05-217 OPEN MSCD-XXXX-P05-218 OPEN MSCD-XXXX-P05-218 OPEN MSCD-XXXX-P05-219 OPEN MSCD-XXXX-P05-210 OPEN MSCD-XXXX-P05-210 OPEN MSCD-XXXX-P05-221 OPEN MSCD-XXXX-P05-221 OPEN MSCD-XXXX-P05-221 OPEN MSCD-XXXX-P05-221 OPEN MSCD-XXXX-P05-223 OPEN MSCD-XXXX-P05-223 OPEN MSCD-XXXX-P05-225 OPEN MSCD-XXXX-P05-226 OPEN MSCD-XXXX-P05-227 OPEN MSCD-XXXX-	MSC-D-XXXX-P05-205	LAUNCH FACILITIES - UTILITY SERVICES											
MSC-D-XXXX-P05-208 PROPELLANT PLANT - UTILITY SERVICES MSC-D-XXXX-P05-209 OPEN MSC-D-XXXX-P05-201 OPEN MSC-D-XXXX-P05-211 OPEN MSC-D-XXXX-P05-212 OPEN MSC-D-XXXX-P05-212 OPEN MSC-D-XXXX-P05-214 OPEN MSC-D-XXXX-P05-214 OPEN MSC-D-XXXX-P05-215 OPEN MSC-D-XXXX-P05-216 GREENHOUSES - UTILITY SERVICES MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-218 OPEN MSC-D-XXXX-P05-219 COMMODITY PRESSURIZED GAS/LIQUID STORAGE MSC-D-XXXX-P05-200 OPEN MSC-D-XXXX-P05-220 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-222 ICE / ORE PROCESSING MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-227 POWER PLANT - NUCLEAR	MSC-D-XXXX-P05-206	OPEN											
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MSC-D-XXXX-P05-210 OPEN MSC-D-XXXX-P05-211 OPEN MSC-D-XXXX-P05-213 IABORATORY FACILITIES - UTILITY SERVICES MSC-D-XXXX-P05-213 IABORATORY FACILITIES - UTILITY SERVICES MSC-D-XXXX-P05-214 OPEN MSC-D-XXXX-P05-215 OPEN MSC-D-XXXX-P05-216 GREENHOUSES - UTILITY SERVICES MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-219 COMMODITY PRESSURIZED GAS/LIQUID STORAGE MSC-D-XXXX-P05-220 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-222 ICE / ORE PROCESSING MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-224 OPEN MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-227 POWER PLANT - SOLAR	MSC-D-XXXX-P05-208	PROPELLANT PLANT - UTILITY SERVICES											
MSC-D-XXXX-P05-211 OPEN MSC-D-XXXX-P05-212 OPEN MSC-D-XXXX-P05-213 LABORATORY FACILITIES - UTILITY SERVICES MSC-D-XXXX-P05-214 OPEN MSC-D-XXXX-P05-215 OPEN MSC-D-XXXX-P05-215 OPEN MSC-D-XXXX-P05-216 GREENHOUSES - UTILITY SERVICES MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-217 OPEN MSC-D-XXXX-P05-218 OPEN MSC-D-XXXX-P05-219 COMMODITY PRESSURIZED GAS/LIQUID STORAGE MSC-D-XXXX-P05-220 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-222 ICE / ORE PROCESSING MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-224 OPEN MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-227 POWER PLANT - NUCLEAR	MSC-D-XXXX-P05-209	OPEN											
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MSC-D-XXXX-P05-216 GREENHOUSES - UTILITY SERVICES	MSC-D-XXXX-P05-214	OPEN											
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MSC-D-XXXX-P05-218 OPEN MSC-D-XXXX-P05-219 COMMODITY PRESSURIZED GAS/LIQUID STORAGE MSC-D-XXXX-P05-220 OPEN MSC-D-XXXX-P05-221 OPEN MSC-D-XXXX-P05-222 ICE / ORE PROCESSING MSC-D-XXXX-P05-223 OPEN MSC-D-XXXX-P05-224 OPEN MSC-D-XXXX-P05-225 POWER PLANT - SOLAR MSC-D-XXXX-P05-226 OPEN MSC-D-XXXX-P05-227 POWER PLANT - NUCLEAR	MSC-D-XXXX-P05-216	GREENHOUSES - UTILITY SERVICES											
MSC-D-XXXX-P05-219 COMMODITY PRESSURIZED GAS/LIQUID STORAGE													
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MSC-D-XXXX-P05-221 OPEN <td></td> <td></td> <td></td> <td>!</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				!									
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DOCUMENT REGISTER -	- Pipe Specifications	
CLIENT	PROJECT #	Me Mars Space
	REV NO #	
PROJECT TITLE		CONSTRUCTION, LLC
Mars Colony	DATE	

L		Mars Colorly									_		
	SPECIFICATION	DESCRIPTION/TITLE	LATES	T REVISION		SCH	EDULED ISSUE DA	ATES		%	SIZE	STATUS	REMARKS
26	DOC. NAME/NO.		NO	DATE	IFR	IFA	IFB	IFP	IFC	COMPLETE	SIZE	STATUS	KEMAKNS
1	<u>Cover Notes</u>	PIPING MATERIAL GENERAL NOTES	Α										
1	<u>a1</u>	CL150 RF - PROCESS FLUIDS, LARGE BORE INSTRUMENT AIR, COOLING WATER, PLANT AND UTILITY AIR	Α	06/08/2021						100%		COMPLETE	
1	<u>a2</u>	CL150 RF - PROCESS FLUIDS	Α	06/08/2021						100%		COMPLETE	
1	<u>a2s</u>	CL150 RF - SOUR PROCESS FLUIDS	Α									in progress	
1	<u>a2z</u>	CL150 RF - AMINE SERVICE	Α									in progress	
1	<u>a4s</u>	CL150 RF - SOUR PROCESS FLUIDS	Α									in progress	
1	<u>ad</u>	CL150 RF - PROCESS FLUIDS	Α									in progress	
1	<u>am1a</u>	CL150 RF - DRY CHLORINE	Α									in progress	
1	<u>ar1</u>	CL150 RF - PROCESS FLUIDS, CHEMICAL INJECTION	Α									in progress	
1	<u>ba9c</u>	CL300 RF - SOUR PROCESS FLUIDS	Α									in progress	
1	<u>c1</u>	CL300 RF - PROCESS FLUIDS, (850 INTERMITTENT)	Α									in progress	
1	<u>c2</u>	CL300 RF - PROCESS FLUIDS, (BLOWDOWN INTERMITTENT TO 850F)	Α									in progress	
1	<u>c2hs</u>	CL300 RF - SOUR PROCESS FLUIDS	Α									in progress	
1	<u>c2z</u>	CL300 RF - AMINE SERVICE	Α									in progress	
1	<u>cd2</u>	CL300 RF - PROCESS FLUIDS	Α									in progress	
1	<u>ce2</u>	CL300 RF - PROCESS FLUIDS	Α									in progress	
1	<u>dg5a</u>	CL600 RF - PROCESS FLUIDS	Α									in progress	
1	ga5b	CL2500 RTJ - PROCESS FLUIDS AND COKE CUTTING WATER	Α									in progress	
1	<u>k1u</u>	CL150 FF - OILY WATER, STORM SEWER (UNDERGROUND PIPING). COATED AND WRAPPED PER JOB SPEC -83A4	Α									in progress	
1	<u>I1</u>	CL150 RF - PROCESS FLUIDS, LARGE BORE INSTRUMENT AIR, COOLING WATER, PLANT AND UTILITY AIR	Α									in progress	
1	<u>lf1u</u>	CL150 RF - FIRE WATER (UNDERGROUND PIPING)	Α									in progress	
1	<u>lg1</u>	CL125 FF - DRINKING WATER, POTABLE WATER, 2" AND SMALLER INSTRUMENT AIR	Α									in progress	
1	<u>lspd</u>	CL125 FF - CHLORINATED WATER, CHEMICAL INJECTION	Α									in progress	
1	<u>n1</u>	CL150 RF - STEAM BOILER FEED WATER, AND CONDENSATE	Α									in progress	
1	<u>r1</u>	CL300 RF - STEAM, BOILER FEED WATER, AND CONDENSATE. (850F INTERMITTENT)	Α									in progress	
1	<u>s1</u>	CL600 RF - HIGH PRESSURE STEAM	Α									in progress	

		DOCUMENT REGISTER - Eng	. Syster	n Codes									
	CLIENT						PROJECT #			M	C	_ M	ARS SPACE
	PROJECT TITLE						REV NO #			- 11		CC	NETBUCTION LLC
	PROJECT TITLE	Mars Colony					DATE					-	NS I KOC I ION, LLC
	CRECIFICATION	inal a colony	LATES	T REVISION		SCI	HEDULED ISSUE DA	ATES		0/			
9	SPECIFICATION DOC. NAME/NO.	DESCRIPTION/TITLE	NO	DATE	IFR	IFA	IFB	IFP	IFC	% COMPLETE	SIZE	STATUS	REMARKS
	Eng. Code List for Mars	List of Engineering, Design, Construction, Codes	А	06/09/2021						95%		ongoing	for rerview
	Communication & Command Systems Codes									80%		in progress	include ISS specifications
	Computers Data Management Systems Codes									20%		in progress	include ISS specifications
	Crew Health Care Systems Codes						1			80%		in progress	include ISS specifications
	Environmental Control and Life Support Systems Codes									10%		in progress	include ISS specifications
	Extravehicular Activity (EVA) Systems Codes									10%		in progress	include ISS specifications
	Guidance Navigation Control Systems Codes									10%		in progress	include ISS specifications
	Habitat Systems Codes									10%		in progress	include ISS specifications
	Instrumentation Systems Codes									10%		in progress	include ISS specifications
	Lighting Systems Codes									10%		in progress	include ISS specifications
	Oxygen Systems Codes									10%		in progress	include ISS specifications
	Power Systems Codes									80%		in progress	include ISS specifications
	Process Storage of Gases, Liquid, Solids Systems Codes									80%		in progress	include ISS specifications
	Radiation Shielding Systems Codes									10%		in progress	include ISS specifications
	Storage Tank Codes	re-format								30%		in progress	include ISS specifications
	Thermal Control System (TCS) Systems Codes									10%		in progress	include ISS specifications
	Waste Systems Codes									10%		in progress	include ISS specifications
	Water Systems Codes									10%		in progress	include ISS specifications
	Process Storage of Gases-Liquids Solids for Mars	Commodity Flow Diagram, convert to spec sheet								50%		in progress	

	CLIENT		COMERT REGISTER - MSDS Data Sheets			PROJECT #			M	9	BA .	no Space
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			Mars Colony			DATE					1	
-	MSDS Data Sheet	MSDS DESCRIPTION	TEMPERATURES		REVISION	TEA	IED	IFC	% COMPLETE	SIZE	STATUS	REMARKS
1	MSDS-Ammonia	NH3 - Gas / Liquid (flammable)	Molecular Weight: 17,031 Specific Volume @ 20°C & 101,325 kPa 1405,6 ml/g Boiling point @ 101,325 kPa -33,4°C Relative density (Air = 1) @ 101,325 kPa 0,599 Flammability levels in air: 16 - 25% (by vol.) Autoignition temperature: 651°C Colour: None Taste: Alkaline	NO	DATE	IFA	IFD	IFC	100%		Complete	
1	MSDS-Carbon Dioxide	CO2 - Gas / Liquid (refrigerant)	Odour: Pungent Molecular weight: 44.01 g/mole Molecular formula: C-O2 Melting/freezing point: Sublimation temp.: -79°C (-110.2 to °F) Critical temperature: 30.9°C (87.6°F) Vapor pressure: 830 (psig) Vapor density: 1.53 (Air = 1) Liquid density@BP: Solid density = 97.5 lb/ft3 (1562 kg/m3) Specific Volume (ft 3/lb): 8.7719 Gas Density (lb/ft 3): 0.114						100%		Complete	
1	MSDS-Hydrogen	H2 - Gas / Liquid (cryrogenic), flammable	Gas Density 21.1°C & 1 atm: 0.08342 kg/m3 (0.00521 lb/ft3) Specific Gravity @ 0°C and 1 atm (air = 1): 0.069 Triple Point: -259°C (-434.6°F) Solubility in Water v/v @ 15.6°C: 0.019 Boiling Point(@ 1 atm.): -252.8 °C (-423.0°F) Evaporation Rate (nBuAc = 1): Not applicable. Expansion Ratio: Approximately 850. Odor Threshold: Not applicable. Vapor Pressure (psia): Not applicable. Volume @ 21.1°C & 1 atm: 192 ft3/lb (11.99 m3/kg) Molecular Weight: 2.016 Water/Oil Distribution: Not applicable. Melting Point: - 259°C (-434.6°F) Appearence and Color: Hydrogen is a colorless, odorless gas.						100%		Complete	
1	MSDS-Methane	CH4 - Gas / Liquid (flammable)	Color: colorless Odor: odorless Molecular Weight: 16.04 Molecular Formula: C-H4 Boiling Point: -162°C Freezing Point: -183°C Vapor Pressure: 760 mmHg@ -161°C Vapor Density (air=1): 0.555 Specific Gravity: Not applicable Density: 1.242 g/L @ 25 C 0.717g?L@0°C Water Solubility: 4.7% @ 20 C 3.5% @17°C PH: Not applicable Volatility: 100% Viscosity: 0.00852 cP @ 0 C 0.01118cP@27°C Solvent Solubility: Soluble: benzene, ethanol, alcohol, ?????, organic solvents						100%		Complete	

DOCUMENT REGISTER - MSDS Data Sheets

	MSDS-Nitrogen	N2 - Gas/Liquid (Cryogenic), non-flammable	Vapor Density: 1.153 kg/m3 (0.072 lb/ft3)			100%	Complete	
			Evaporation Rate (nBuAc = 1): Not applicable. Specific				'	
			Gravity (air = 1): 0.967 Freezing					
			Point: -210°C (-345.8°F)					
			Solubility in Water (v/v): 1.49%					
			Boiling Point @1 atm: -320.4°F (-195.8°C)					
			Expansion Ratio: 696.5 (cryogenic liquid) pH:					
-			Not applicable.					
			Oder Threehold, Net applicable, Oderlage					
			Odor Threshold: Not applicable. Odorless.					
			Vapor Pressure (psia): Not applicable. Coefficient					
			Water/Oil Distribution: Log Kow = 0.92 Specific Volume					
			(ft3/lb): 13.8					
			Appearence and Color: Nitrogen is a colorless, odorless gas or a					
			colorless and odorless, cryogenic liquid.					
	MSDS-Oxygen	O2 - Gas/Liquid (Cryogenic), flammable	Physical state: Gas. [Compressed gas.]			100%	Complete	
	WODO-Oxygen	02 - Gas/Liquid (Gryogenic), naminable				100 /0	Complete	
			Color: Colorless. Blue					
			Odor: Odorless					
			Melting Point: -218.4°C (-361.1°F)					
			Boiling point: -183°C (-297.4°F)					
			Critical temperature: -118.15°C (-180.7°F)					
			Flash point Evap. rate: Product does not sustain combustion.					
			Flammability (solid, gas): Extremely flammable in the presence of the					
			following materials or conditions: reducing materials, combustible					
			materials and organic materials.					
			Vapor pressure Vapor density: 1.1 (Air = 1)					
			Specific Volume (ft 3/lb): 12.0482					
			Gas Density (lb/ft 3): 0.083					
			Partition coefficient: 0.65					
			Auto-ignition temperature: 0.65					
			Molecular weight: 32 g/mole					
	MSDS-Water	H2O - Gas/Liquid	Appearence: Colorless			100%	Complete	
		'	Physical State: Liquid (Clear)				•	
			Molecular Weight: 18.02					
			Molecular Weight: 18.02 Chemical Formula: H2O					
L			Chemical Formula: H2O					
			Chemical Formula: H2O Odor: Odoravity (water = 1.0): 0.9982 g/ml @ 20 °					
L			Chemical Formula: H2O Odor: Odoravity (water = 1.0): 0.9982 g/ml @ 20 ° pH: ~7.0 Point: 100°C (212°F)					
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	DOCUMENT REGISTER - GA, General Arrangements																	
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