TABLE 41
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD NO. 2

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0411		**MAIN GAS BLOCKING VALVES**							
5100	WASH	V	L	41	2	R-402A		UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5101	WASH	V	L	41	2	R-402A		DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5102	WASH	V	L	41	2	R-402A		SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5103	WASH	V	L	41	2	R-402B		UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5104	WASH	V	L	41	2	R-402B		DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5105	WASH	V	L	41	2	R-402B		SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5106	WASH	V	L	41	2	R-402C		UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5107	WASH	V	L	41	2	R-402C		DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5108	WASH	V	L	41	2	R-402C		SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5109	WASH	V	L	41	2	R-402D		UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5110	WASH	V	L	41	2	R-402D		DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5111	WASH	V	L	41	2	R-402D		SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
0412		**SUB GAS MANIFOLD / NITROGEN**							
5115	N/A(vac)	V	GV	41	2	QUAD 2		SUB GAS HEADER CLEANOUT VALVE	HEADER	N
5116	N/A(vac)	V	GV	41	2	QUAD 2		BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5117	N/A(vac)	V	GV	41	2	QUAD 2		BLOCKING VALVE NITROGEN PURGE	HEADER	Y
5118	N/A(vac)	V	GV	41	2	QUAD 2		CLEAN OUT VALVE SUB GAS VACUUM LINE	HEADER	Y
5119	N/A(vac)	V	GV	41	2	QUAD 2		BLEED VALVE SUB GAS VACUUM LINE	HEADER	Y
0413		**UNIT A**							
5120	Q	V	G	41	2	R-402A	West Side	RAW GAS VALVE	TOP #A	Y
5121	Q	V	G	41	2	R-402A	West Side	TOP PRESSURE TAP VALVE	TOP #A	Y
5122	Q	V	G	41	2	R-402A	West Side	TOP PRESSURE TAP	TOP #A	Y
5124	A,V,O	C	G	41	2	R-402A	West Side	TOP PRESSURE TAP GAUGE	TOP #A	Y
5125	Q	V	G	41	2	R-402A	West Side	DOWN RIVER GAS VALVE	TOP #A	Y
5126	UTM	V	L	41	2	R-402A	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #A	UTM
5131	Q	V O/E	L	41	2	R-402A	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #A	Y
5127	Q	V	G	41	2	R-402A	East Side	UNDER FIRE GAS VALVE	TOP #A	Y
5128	Q	V	G	41	2	R-402A	East Side	SUB GAS VALVE	TOP #A	Y
5129	Q	PRV	G	41	2	R-402A	Top Platform	PRESSURE RELIEF VALVE	TOP #A	Y
5133	Q	V	G	41	2	R-402A	Top Platform	BLOCKING VALVE FOR PRESSURE RELIEF	TOP #A	Y
5130	Q	V	L	41	2	R-402A	North Side	TOP LEVEL NORTH STEAM TAP	TOP #A	Y
5132	WASH	V	G	41	2	R-402A		MID LEVEL PRESSURE TAP VALVE	MID #A	Y
5134	WASH	V	L	41	2	R-402A		LOW LEVEL PRESSURE TAP COLD	BOTTOM #A	Y
	A,V,O	C(x3)	G	41	2	R-402A		MISCELLANEOUS UNMARKED FLANGES	TOP #A	Y
0414		**UNIT B**							
5140	Q	V	G	41	2	R-402B	West Side	RAW GAS VALVE	TOP #B	Y
5141	Q	V	G	41	2	R-402B	West Side	TOP PRESSURE TAP VALVE	TOP #B	Y
5142	Q	V	G	41	2	R-402B	West Side	TOP PRESSURE TAP	TOP #B	Y
5143	A,V,O	C	G	41	2	R-402B	West Side	TOP PRESSURE TAP GAUGE	TOP #B	Y
5144	Q	V	G	41	2	R-402B	West Side	DOWN RIVER GAS VALVE	TOP #B	Y
5145	UTM	V	L	41	2	R-402B	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #B	UTM
5146	Q	V O/E	L	41	2	R-402B	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #B	Y
5147	Q	V	G	41	2	R-402B	East Side	UNDER FIRE GAS VALVE	TOP #B	Y
5148	Q	V	G	41	2	R-402B	East Side	SUB GAS VALVE	TOP #B	Y
5151	Q	PRV	G	41	2	R-402B	Top Platform	PRESSURE RELIEF VALVE	TOP #B	Y
5152	Q	V	G	41	2	R-402B	Top Platform	BLOCKING VALVE FOR PRESSURE RELIEF	TOP #B	Y
5149	UTM	V	L	41	2	R-402B	North Side	TOP LEVEL NORTH STEAM TAP	TOP #B	UTM
5174	WASH	V	G	41	2	R-402B		MID LEVEL PRESSURE TAP VALVE	MID #B	Y
5153	WASH	V	L	41	2	R-402B		LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	Y
	A,V,O	C(x3)	G	41	2	R-402B		MISCELLANEOUS UNMARKED FLANGES	TOP #B	Y

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TABLE 41 (continued)

0415		UNIT C					
5160	Q	V	G	41	2	R-402C	West Side
5161	Q	V	G	41	2	R-402C	West Side
5162	Q	V	G	41	2	R-402C	West Side
5163	A,V,O	C	G	41	2	R-402C	West Side
5165	Q	V	G	41	2	R-402C	West Side
5166	UTM	V	L	41	2	R-402C	South Side
5164	Q	V O/B	L	41	2	R-402C	West Side
5168	Q	V	G	41	2	R-402C	East Side
5169	Q	V	G	41	2	R-402C	East Side
5171	Q	PRV	G	41	2	R-402C	Top Platform
5172	Q	V	G	41	2	R-402C	Top Platform
5170	UTM	V	L	41	2	R-402C	North Side
5194	WASH	V	G	41	2	R-402C	
5173	WASH	V	L	41	2	R-402C	
	A,V,O	C(x3)	G	41	2	R-402C	
0416		UNIT D					
5180	Q	V	G	41	2	R-402D	West Side
5181	Q	V	G	41	2	R-402D	West Side
5182	Q	V	G	41	2	R-402D	West Side
5184	A,V,O	C	G	41	2	R-402D	West Side
5185	Q	V	G	41	2	R-402D	West Side
5186	Q	V	L	41	2	R-402D	South Side
5187	Q	V O/B	L	41	2	R-402D	West Side
5188	Q	V	G	41	2	R-402D	East Side
5189	Q	V	G	41	2	R-402D	East Side
5191	Q	PRV	G	41	2	R-402D	Top Platform
5192	Q	V	G	41	2	R-402D	Top Platform
6647	Q	V	G	41	2	R-402D	South of R-402D
6604	Q	V	G	41	2	R-402D	South of R-402D
5190	UTM	V	L	41	2	R-402D	North Side
5150	WASH	V	G	41	2	R-402D	
5193	WASH	V	L	41	2	R-402D	
	A,V,O	C(x3)	G	41	2	R-402D	

RAW GAS VALVE	TOP #C	Y
TOP PRESSURE TAP VALVE	TOP #C	Y
TOP PRESSURE TAP	TOP #C	Y
TOP PRESSURE TAP GAUGE	TOP #C	Y
DOWN RIVER GAS VALVE	TOP #C	Y
TOP LEVEL SOUTH PRESSURE TAP	TOP #C	UTM
TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #C	Y
UNDER FIRE GAS VALVE	TOP #C	Y
SUB GAS VALVE	TOP #C	Y
PRESSURE RELIEF VALVE	TOP #C	Y
BLOCKING VALVE FOR PRESSURE RELIEF	TOP #C	Y
TOP LEVEL NORTH STEAM TAP	TOP #C	UTM
MID LEVEL PRESSURE TAP VALVE	MID #C	Y
LOW LEVEL PRESSURE TAP COLD	BOTTOM #C	Y
MISCELLANEOUS UNMARKED FLANGES	TOP #C	Y
RAW GAS VALVE	TOP #D	Y
TOP PRESSURE TAP VALVE	TOP #D	Y
TOP PRESSURE TAP	TOP #D	Y
TOP PRESSURE TAP GAUGE	TOP #D	Y
DOWN RIVER GAS VALVE	TOP #D	Y
TOP LEVEL SOUTH PRESSURE TAP	TOP #D	Y
TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #D	Y
UNDER FIRE GAS VALVE	TOP #D	Y
SUB GAS VALVE	TOP #D	Y
PRESSURE RELIEF VALVE	TOP #D	Y
BLOCKING VALVE FOR PRESSURE RELIEF	TOP #D	Y
MAIN DOWN RIVER HEADER LINE BLOCKING VALVE	TOP SOUTH #D	Y
MAIN UNDERFIRE HEADER LINE BLOCKING VALVE	TOP SOUTH #D	Y
TOP LEVEL NORTH STEAM TAP	TOP #D	UTM
MID LEVEL PRESSURE TAP VALVE	MID #D	Y
LOW LEVEL PRESSURE TAP COLD	BOTTOM #D	Y
MISCELLANEOUS UNMARKED FLANGES	TOP #D	Y

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TABLE 42
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD NO. 3

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0421		**MAIN GAS BLOCKING VALVES**							
5200	WASH	V	L	42	2	MAIN QUAD	R-403A	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5201	WASH	V	L	42	2	MAIN QUAD	R-403A	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5202	WASH	V	L	42	2	MAIN QUAD	R-403A	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5203	WASH	V	L	42	2	MAIN QUAD	R-403B	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5204	WASH	V	L	42	2	MAIN QUAD	R-403B	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5205	WASH	V	L	42	2	MAIN QUAD	R-403B	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5206	WASH	V	L	42	2	MAIN QUAD	R-403C	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5207	WASH	V	L	42	2	MAIN QUAD	R-403C	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5208	WASH	V	L	42	2	MAIN QUAD	R-403C	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5209	WASH	V	L	42	2	MAIN QUAD	R-403D	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5210	WASH	V	L	42	2	MAIN QUAD	R-403D	DOWNRIVER COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5211	WASH	V	L	42	2	MAIN QUAD	R-403D	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
0422		**SUB GAS MANIFOLD / NITROGEN**							
5215	N/A(vac)	V	GV	42	2	MAIN QUAD	QUAD 3	SUB GAS HEADER CLEANOUT VALVE	HEADER	N
5216	N/A(vac)	V	GV	42	2	MAIN QUAD	QUAD 3	BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5217	N/A(vac)	V	GV	42	2	MAIN QUAD	QUAD 3	BLOCKING VALVE NITROGEN PURGE	HEADER	Y
5218	N/A(vac)	V	GV	42	2	MAIN QUAD	QUAD 3	CLEAN OUT VALVE SUB GAS VACUUM LINE	HEADER	Y
5219	N/A(vac)	V	GV	42	2	MAIN QUAD	QUAD 3	BLEED VALVE SUB GAS VACUUM LINE	HEADER	Y
0423		**UNIT A**							
5220	Q	V	G	42	2	R-403A	West Side	RAW GAS VALVE	TOP #A	Y
5221	Q	V	G	42	2	R-403A	West Side	DOWN RIVER GAS VALVE	TOP #A	Y
5222	UTM	V	L	42	2	R-403A	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #A	UTM
5224	Q	V O/E	G	42	2	R-403A	East Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #A	Y
5225	Q	V	G	42	2	R-403A	East Side	UNDER FIRE GAS VALVE	TOP #A	Y
5226	Q	V	G	42	2	R-403A	East Side	TOP EAST PRESSURE TAP	TOP #A	Y
5229	A,V,O	C	G	42	2	R-403A	East Side	TOP PRESSURE TAP GAUGE	TOP #A	Y
5230	Q	V	G	42	2	R-403A	East Side	SUB GAS VALVE	TOP #A	Y
5231	Q	V	G	42	2	R-403A	North Side	TOP LEVEL NORTH STEAM TAP	TOP #A	Y
5232	Q	PRV	G	42	2	R-403A	Top Platform	RELIEF VALVE	TOP #A	Y
5233	Q	V	G	42	2	R-403A	Top Platform	BLOCKING VALVE TO PRV	TOP #A	Y
5276	Q	V	G	42	2	R-403A	North R-403A	BLOCKING VALVE ON MAIN DOWNRIVER HEADER	TOP-NORTH #A (Out of 7022)	Y
7067	Q	V	G	42	2	R-403A	North R-403A	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-NORTH #A	Y
5234	WASH	V	G	42	2	R-403A	R-403A	MID LEVEL PRESSURE TAP	MIDDLE #A	Y
5235	WASH	V	L	42	2	R-403A	R-403A	LOW LEVEL PRESSURE TAP COLD	BOTTOM #A	Y
	A,V,O	C(x3)	G	42	2	R-403A	R-403A	MISCELLANEOUS UNMARKED FLANGES	TOP #A	Y
0424		**UNIT B**							
5240	Q	V	G	42	2	R-403B	West Side	RAW GAS VALVE	TOP #B	Y
5241	Q	V	G	42	2	R-403B	West Side	DOWN RIVER GAS VALVE	TOP #B	Y
5242	UTM	V	L	42	2	R-403B	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #B	UTM
5243	Q	V O/E	G	42	2	R-403B	East Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #B	Y
5244	Q	V	G	42	2	R-403B	East Side	UNDER FIRE GAS VALVE	TOP #B	Y
5245	Q	V	G	42	2	R-403B	East Side	TOP EAST PRESSURE TAP	TOP #B	Y
5246	Q	V O/E	G	42	2	R-403B	East Side	TOP EAST PRESSURE TAP (2nd Valve)	TOP #B	Y
5249	Q	V	G	42	2	R-403B	East Side	SUB GAS VALVE	TOP #B	Y
5250	UTM	V	G	42	2	R-403B	North Side	TOP LEVEL NORTH STEAM TAP	TOP #B	UTM
5254	Q	PRV	G	42	2	R-403B	Top Platform	RELIEF VALVE	TOP #B	Y
5255	Q	V	G	42	2	R-403B	Top Platform	BLOCKING VALVE TO PRV	TOP #B	Y
5252	WASH	V	G	42	2	R-403B	R-403B	MID LEVEL PRESSURE TAP	MIDDLE #B	N
5223	WASH	V	L	42	2	R-403B	R-403B	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	N
	A,V,O	C(x3)	G	42	2	R-403B	R-403B	MISCELLANEOUS UNMARKED FLANGES	TOP #B	Y

TABLE 42 (continued)

0425		UNIT C								
5260	Q	V	G	42	2	R-403C	West Side	RAW GAS VALVE	TOP #C	Y
5261	Q	V	G	42	2	R-403C	West Side	DOWN RIVER GAS VALVE	TOP #C	Y
5262	UTM	V	L	42	2	R-403C	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #C	UTM
5263	Q	V O/E	G	42	2	R-403C	East Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #C	Y
5264	Q	V	G	42	2	R-403C	East Side	UNDER FIRE GAS VALVE	TOP #C	Y
5265	Q	V	G	42	2	R-403C	East Side	TOP EAST PRESSURE TAP	TOP #C	Y
5267	Q	V O/E	G	42	2	R-403C	East Side	TOP EAST PRESSURE TAP CLEANOUT	TOP #C	Y
5268	A,V,O	C	G	42	2	R-403C	East Side	TOP EAST PRESSURE TAP GAUGE	TOP #C	Y
5269	Q	V	G	42	2	R-403C	East Side	SUB GAS VALVE	TOP #C	Y
5270	UTM	V	G	42	2	R-403C	North Side	TOP LEVEL NORTH STEAM TAP	TOP #C	UTM
5271	Q	PRV	G	42	2	R-403C	Top Platform	RELIEF VALVE	TOP #C	Y
5272	Q	V	G	42	2	R-403C	Top Platform	BLOCKING VALVE TO PRV	TOP #C	Y
5274	WASH	V	G	42	2	R-403C	R-403C	MID LEVEL PRESSURE TAP	MIDDLE #B	N
5275	WASH	V	L	42	2	R-403C	R-403C	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	N
	A,V,O	C(x3)	G	42	2	R-403C	R-403C	MISCELLANEOUS UNMARKED FLANGES	TOP #B	Y
0426		UNIT D								
5290	Q	V	G	42	2	R-403D	West Side	RAW GAS VALVE	TOP #D	Y
5281	Q	V	G	42	2	R-403D	West Side	DOWN RIVER GAS VALVE	TOP #D	Y
5282	Q	V	L	42	2	R-403D	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #D	Y
5283	Q	V O/E	G	42	2	R-403D	East Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #D	Y
5284	Q	V	G	42	2	R-403D	East Side	UNDER FIRE GAS VALVE	TOP #D	Y
5285	Q	V	G	42	2	R-403D	East Side	TOP EAST PRESSURE TAP	TOP #D	Y
5286	Q	V	G	42	2	R-403D	East Side	TOP EAST PRESSURE TAP (2nd Valve)	TOP #D	Y
5288	Q	V O/E	G	42	2	R-403D	East Side	TOP EAST PRESSURE TAP (3rd Valve)	TOP #D	Y
5287	A,V,O	C	G	42	2	R-403D	East Side	TOP EAST PRESSURE TAP GAUGE	TOP #D	Y
5289	Q	V	G	42	2	R-403D	East Side	SUB GAS VALVE	TOP #D	Y
5247	UTM	V	G	42	2	R-403D	North Side	TOP LEVEL NORTH STEAM TAP	TOP #D	UTM
5291	Q	PRV	G	42	2	R-403D	Top Platform	RELIEF VALVE	TOP #D	Y
5292	Q	V	G	42	2	R-403D	Top Platform	BLOCKING VALVE TO PRV	TOP #D	Y
5298	Q	V	G	42	2	R-403D	South R-403D	BLOCKING VALVE ON MAIN DOWN RIVER HEADER	TOP-SOUTH #D	Y
5299	Q	V	G	42	2	R-403D	South R-403D	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-SOUTH #D	Y
5294	WASH	V	G	42	2	R-403D	R-403D	MID LEVEL PRESSURE TAP	MIDDLE #B	N
5293	WASH	V	L	42	2	R-403D	R-403D	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	N
	A,V,O	C(x3)	G	42	2	R-403D	R-403D	MISCELLANEOUS UNMARKED FLANGES	TOP #D	Y

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TABLE 43
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD #4

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room			
0431		**MAIN GAS BLOCKING VALVES**						
5300	WASH	V	L	43	2	MAIN QUAD	R-404A	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5301	WASH	V	L	43	2	MAIN QUAD	R-404A	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5302	WASH	V	L	43	2	MAIN QUAD	R-404A	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5303	WASH	V	L	43	2	MAIN QUAD	R-404B	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5304	WASH	V	L	43	2	MAIN QUAD	R-404B	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5305	WASH	V	L	43	2	MAIN QUAD	R-404B	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5306	WASH	V	L	43	2	MAIN QUAD	R-404C	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5307	WASH	V	L	43	2	MAIN QUAD	R-404C	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5308	WASH	V	L	43	2	MAIN QUAD	R-404C	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5309	WASH	V	L	43	2	MAIN QUAD	R-404D	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5310	WASH	V	L	43	2	MAIN QUAD	R-404D	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5311	WASH	V	L	43	2	MAIN QUAD	R-404D	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
0432		**SUB GAS MANIFOLD / NITROGEN**						
5315	N/A(vac)	V	GV	43	2	MAIN QUAD	QUAD 4	SUB GAS HEADER CLEANOUT VALVE	HEADER	N
5316	N/A(vac)	V	GV	43	2	MAIN QUAD	QUAD 4	BLOCKING VALVE NITROGEN PURGE	HEADER	Y
5317	N/A(vac)	V	GV	43	2	MAIN QUAD	QUAD 4	BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5318	N/A(vac)	V	GV	43	2	MAIN QUAD	QUAD 4	CLEAN OUT VALVE SUB GAS VACUUM LINE	HEADER	Y
5319	N/A(vac)	V	GV	43	2	MAIN QUAD	QUAD 4	BLEED VALVE SUB GAS VACUUM LINE	HEADER	Y
0433		**UNIT A**						
5320	Q	V	G	43	2	R-404A	West Side	RAW GAS VALVE	TOP #A	Y
5321	Q	V	G	43	2	R-404A	West Side	TOP PRESSURE WEST TAP VALVE	TOP #A	Y
5322	Q	V	G	43	2	R-404A	West Side	TOP PRESSURE WEST TAP VALVE	TOP #A	Y
5324	A,V,O	C	G	43	2	R-404A	West Side	TOP PRESSURE GAUGE	TOP #D	Y
5323	Q	V O/E	G	43	2	R-404A	West Side	TOP PRESSURE WEST TAP CLEANOUT VALVE	TOP #A	Y
5325	Q	V	G	43	2	R-404A	West Side	DOWN RIVER GAS VALVE	TOP #A	Y
5326	UTM	V	L	43	2	R-404A	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #A	N
5327	Q	V O/E	L	43	2	R-404-A	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENDED	TOP #A	Y
5328	Q	V	G	43	2	R-404A	East Side	UNDERFIRE GAS VALVE	TOP #A	Y
5329	Q	V	G	43	2	R-404A	East Side	SUB GAS VALVE	TOP #A	Y
5330	Q	V	L	43	2	R-404A	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #A	Y
5331	Q	PRV	G	43	2	R-404A	Top Platform	PRESSURE RELIEF VALVE	TOP #A	Y
5332	Q	V	G	43	2	R-404A	Top Platform	BLOCKING VALVE TO PRV	TOP #A	Y
6986	Q	V	G	43	2	R-404A	North R-404A	BLOCKING VALVE ON MAIN DOWNRIVER HEADER	TOP-NORTH #A	Y
6987	Q	V	G	43	2	R-404A	North R-404A	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-NORTH #A	Y
5333	WASH	V	G	43	2	R-404A	R-404A	MID LEVEL PRESSURE TAP VALVE	MIDDLE #A	Y
5334	WASH	V	L	43	2	R-404A	R-404A	LOW LEVEL PRESSURE TAP COLD	BOTTOM #A	N
	A,V,O	C(x3)	G	43	2	R-404A	R-404A	MISCELLANEOUS UNMARKED FLANGES	TOP #A	Y
0434		**UNIT B**						
5340	Q	V	G	43	2	R-404B	West Side	RAW GAS VALVE	TOP #B	Y
5341	Q	V	G	43	2	R-404B	West Side	TOP PRESSURE WEST TAP VALVE	TOP #B	Y
5342	Q	V	G	43	2	R-404B	West Side	TOP PRESSURE WEST TAP VALVE	TOP #B	Y
5344	A,V,O	C	G	43	2	R-404B	West Side	TOP PRESSURE GAUGE	TOP #B	Y
5343	Q	V O/E	G	43	2	R-404B	West Side	TOP PRESSURE WEST TAP CLEANOUT VALVE	TOP #B	Y
5352	Q	V	G	43	2	R-404B	West Side	DOWN RIVER GAS VALVE	TOP #B	Y
5345	UTM	V	L	43	2	R-404B	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #B	UTM
5346	Q	V O/E	L	43	2	R-404-B	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENDED	TOP #B	Y
5347	Q	V	G	43	2	R-404B	East Side	UNDERFIRE GAS VALVE	TOP #B	Y
5348	Q	V	G	43	2	R-404B	East Side	SUB GAS VALVE	TOP #B	Y
5349	UTM	V	L	43	2	R-404B	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #B	UTM
5350	Q	PRV	G	43	2	R-404B	Top Platform	PRESSURE RELIEF VALVE	TOP #B	Y
5351	Q	V	G	43	2	R-404B	Top Platform	BLOCKING VALVE TO PRV	TOP #B	Y

TABLE 43 (continued)

5354	WASH	V	G	43	2	R-404B	R-404B	MID LEVEL PRESSURE TAP VALVE	MIDDLE #B	Y
5353	WASH	V	L	43	2	R-404B	R-404B	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	Y
	A,V,O	C(x3)	G	43	2	R-404B	R-404B	MISCELLANEOUS UNMARKED FLANGES	TOP #B	DTM
0435		UNIT C								
5360	Q	V	G	43	2	R-404C	West Side	RAW GAS VALVE	TOP #C	
5361	Q	V	G	43	2	R-404C	West Side	TOP PRESSURE WEST TAP VALVE	TOP #C	Y
5362	Q	V	G	43	2	R-404C	West Side	TOP PRESSURE WEST TAP VALVE	TOP #C	Y
5363	A,V,O	C	G	43	2	R-404C	West Side	TOP PRESSURE GAUGE	TOP #C	Y
5364	Q	V O/E	G	43	2	R-404C	West Side	TOP PRESSURE WEST TAP CLEANOUT VALVE	TOP #C	Y
5365	Q	V	G	43	2	R-404C	West Side	DOWN RIVER GAS VALVE	TOP #C	Y
5366	UTM	V	L	43	2	R-404C	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #C	Y
5367	Q	V O/E	L	43	2	R-404-C	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENDED	TOP #C	UTM
5368	Q	V	G	43	2	R-404C	East Side	UNDERFIRE GAS VALVE	TOP #C	Y
5369	Q	V	G	43	2	R-404C	East Side	SUB GAS VALVE	TOP #C	Y
5370	UTM	V	L	43	2	R-404C	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #C	Y
5374	Q	PRV	G	43	2	R-404C	Top Platform	PRESSURE RELIEF VALVE	TOP #C	UTM
5375	Q	V	G	43	2	R-404C	Top Platform	BLOCKING VALVE TO PRV	TOP #C	Y
5391	WASH	V	G	43	2	R-404C	R-404C	MID LEVEL PRESSURE TAP VALVE	TOP #C	Y
5373	WASH	V	L	43	2	R-404C	R-404C	LOW LEVEL PRESSURE TAP COLD	TOP #C	Y
	A,V,O	C(x3)	G	43	2	R-404C	R-404C	MISCELLANEOUS UNMARKED FLANGES	TOP #C	Y
0436		UNIT D								DTM
5380	Q	V	G	43	2	R-404D	West Side	RAW GAS VALVE	TOP #D	
5381	Q	V	G	43	2	R-404D	West Side	TOP PRESSURE WEST TAP VALVE	TOP #D	Y
5382	Q	V	G	43	2	R-404D	West Side	TOP PRESSURE WEST TAP VALVE	TOP #D	Y
5383	A,V,O	C	G	43	2	R-404D	West Side	TOP PRESSURE GAUGE	TOP #D	Y
5390	Q	V O/E	G	43	2	R-404D	West Side	TOP PRESSURE WEST TAP CLEANOUT VALVE	TOP #D	Y
5389	Q	V	G	43	2	R-404D	West Side	DOWN RIVER GAS VALVE	TOP #D	Y
5384	Q	V	L	43	2	R-404D	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #D	Y
5385	Q	V O/E	L	43	2	R-404-D	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENDED	TOP #D	Y
5386	Q	V	G	43	2	R-404D	East Side	UNDERFIRE GAS VALVE	TOP #D	Y
5387	Q	V	G	43	2	R-404D	East Side	SUB GAS VALVE	TOP #D	Y
5388	UTM	V	L	43	2	R-404D	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #D	Y
5393	Q	PRV	G	43	2	R-404D	Top Platform	PRESSURE RELIEF VALVE	TOP #D	UTM
5392	Q	V	G	43	2	R-404D	Top Platform	BLOCKING VALVE TO PRV	TOP #D	Y
6988	Q	V	G	43	2	R-404D	South R-404D	BLOCKING VALVE ON MAIN DOWN RIVER HEADER	TOP-SOUTH #D	Y
6989	Q	V	G	43	2	R-404D	South R-404D	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-SOUTH #D	Y
5372	DTM-WASH	V	G	43	2	R-404D	R-404D	MID LEVEL PRESSURE TAP VALVE	TOP #D	Y
5371	WASH	V	L	43	2	R-404D	R-404D	LOW LEVEL PRESSURE TAP COLD	TOP #D	DTM
	A,V,O	C(x3)	G	43	2	R-404D	R-404D	MISCELLANEOUS UNMARKED FLANGES	TOP #D	Y
										DTM

TABLE 44
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD NO. 5

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0441	MAIN GAS BLOCKING VALVES								
5400	WASH	V	L	44	2	MAIN QUAD	R-405A	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5501	WASH	V	L	44	2	MAIN QUAD	R-405A	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5502	WASH	V	L	44	2	MAIN QUAD	R-405A	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5403	WASH	V	L	44	2	MAIN QUAD	R-405B	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5504	WASH	V	L	44	2	MAIN QUAD	R-405B	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5505	WASH	V	L	44	2	MAIN QUAD	R-405B	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5406	WASH	V	L	44	2	MAIN QUAD	R-405C	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5507	WASH	V	L	44	2	MAIN QUAD	R-405C	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5508	WASH	V	L	44	2	MAIN QUAD	R-405C	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5409	WASH	V	L	44	2	MAIN QUAD	R-405D	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5510	WASH	V	L	44	2	MAIN QUAD	R-405D	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5511	WASH	V	L	44	2	MAIN QUAD	R-405D	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
0442	SUB GAS MANIFOLD / NITROGEN									
5415	N/A(vac)	V	GV	44	2	MAIN QUAD	QUAD 5	SUB GAS HEADER CLEANOUT VALVE	HEADER	UTM
5416	N/A(vac)	V	GV	44	2	MAIN QUAD	QUAD 5	BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5417	N/A(vac)	V	GV	44	2	MAIN QUAD	QUAD 5	BLOCKING VALVE NITROGEN PURGE	HEADER	Y
5418	N/A(vac)	V	GV	44	2	MAIN QUAD	QUAD 5	CLEAN OUT VALVE SUB GAS VACUUM LINE	HEADER	Y
5419	N/A(vac)	V	GV	44	2	MAIN QUAD	QUAD 5	BLEED VALVE SUB GAS VACUUM LINE	HEADER	Y
0443	UNIT A									
5420	Q	V	G	44	2	R-405A	East Side	RAW GAS VALVE	TOP #A	Y
5422	Q	V	G	44	2	R-405A	East Side	DOWN RIVER GAS VALVE	TOP #A	Y
5423	UTM	V	L	44	2	R-405A	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #A	Y
5424	Q	V O/E	L	44	2	R-405A	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #A	Y
5425	Q	V	G	44	2	R-405A	West Side	UNDERFIRE GAS VALVE	TOP #A	Y
5426	Q	V	G	44	2	R-405A	West Side	TOP PRESSURE TAP	TOP #A	Y
5427	Q	V	G	44	2	R-405A	West Side	TOP PRESSURE TAP (2nd Valve)	TOP #A	Y
5429	A,V,O	C	G	44	2	R-405A	West Side	TOP PRESSURE GAUGE	TOP #A	Y
5430	Q	V	G	44	2	R-405A	West Side	SUB GAS VALVE	TOP #A	Y
5421	Q	V	L	44	2	R-405A	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #A	Y
5432	Q	PRV	G	44	2	R-405A	Top Platform	PRESSIRE RELIEF VALVE	TOP #A	Y
5433	Q	V	G	44	2	R-405A	Top Platform	PRESSIRE RELIEF BLOCKING VALVE	TOP #A	Y
5434	WASH	V	G	44	2	R-405A	R-405A	MID LEVEL PRESSURE TAP VALVE	MIDDLE #A	Y
5435	WASH	V	L	44	2	R-405A	R-405A	LOW LEVEL PRESSURE TAP COLD	BOTTOM #A	Y
	A,V,O	C(x3)	G	44	2	R-405A	R-405A	MISCELLANEOUS UNMARKED FLANGES	TOP #A	DTM
0444	UNIT B									
5440	Q	V	G	44	2	R-405B	East Side	RAW GAS VALVE	TOP #B	Y
5441	Q	V	G	44	2	R-405B	East Side	DOWN RIVER GAS VALVE	TOP #B	Y
5442	UTM	V	L	44	2	R-405B	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #B	UTM
5443	Q	V O/E	L	44	2	R-405B	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #B	Y
5444	Q	V	G	44	2	R-405B	West Side	UNDERFIRE GAS VALVE	TOP #B	Y
5445	Q	V	G	44	2	R-405B	West Side	TOP PRESSURE TAP	TOP #B	Y
5446	Q	V	G	44	2	R-405B	West Side	TOP PRESSURE TAP (2nd Valve)	TOP #B	Y
5447	A,V,O	C	G	44	2	R-405B	West Side	TOP PRESSURE GAUGE	TOP #B	Y
5449	Q	V	G	44	2	R-405B	West Side	SUB GAS VALVE	TOP #B	Y
5450	UTM	V	L	44	2	R-405B	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #B	UTM
5454	Q	PRV	G	44	2	R-405B	Top Platform	PRESSIRE RELIEF VALVE	TOP #B	Y
5455	Q	V	G	44	2	R-405B	Top Platform	PRESSIRE RELIEF BLOCKING VALVE	TOP #B	Y
5452	WASH	V	G	44	2	R-405B	R-405B	MID LEVEL PRESSURE TAP VALVE	MIDDLE #B	Y
5453	WASH	V	L	44	2	R-405B	R-405B	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	Y
	A,V,O	C(x3)	G	44	2	R-405B	R-405B	MISCELLANEOUS UNMARKED FLANGES	TOP #B	DTM

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TABLE 44 (continued)

0445		UNIT C							
5460	Q	V	G	44	2	R-405C	East Side	RAW GAS VALVE	TOP #C	Y
5461	Q	V	G	44	2	R-405C	East Side	DOWN RIVER GAS VALVE	TOP #C	Y
5462	UTM	V	L	44	2	R-405C	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #C	UTM
5463	Q	V O/E	L	44	2	R-405C	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #C	Y
5464	Q	V	G	44	2	R-405C	West Side	UNDERFIRE GAS VALVE	TOP #C	Y
5465	Q	V	G	44	2	R-405C	West Side	TOP PRESSURE TAP	TOP #C	Y
5466	Q	V	G	44	2	R-405C	West Side	TOP PRESSURE TAP (2nd Valve)	TOP #C	Y
5468	A,V,O	C	G	44	2	R-405C	West Side	TOP PRESSURE GAUGE	TOP #C	Y
5469	Q	V	G	44	2	R-405C	West Side	SUB GAS VALVE	TOP #C	Y
5470	UTM	V	L	44	2	R-405C	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #C	UTM
5471	Q	PRV	G	44	2	R-405C	Top Platform	PRESSIRE RELIEF VALVE	TOP #C	Y
5472	Q	V	G	44	2	R-405C	Top Platform	PRESSIRE RELIEF BLOCKING VALVE	TOP #C	Y
5473	WASH	V	G	44	2	R-405C	R-405C	MID LEVEL PRESSURE TAP VALVE	TOP #C	Y
5474	WASH	V	L	44	2	R-405C	R-405C	LOW LEVEL PRESSURE TAP COLD	TOP #C	Y
	A,V,O	C(x3)	G	44	2	R-405C	R-405C	MISCELLANEOUS UNMARKED FLANGES	TOP #C	DTM
0446		UNIT D							
5480	Q	V	G	44	2	R-405D	East Side	RAW GAS VALVE	TOP #D	Y
5481	Q	V	G	44	2	R-405D	East Side	DOWN RIVER GAS VALVE	TOP #D	Y
5482	Q	V	L	44	2	R-405D	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #D	Y
5483	Q	V O/E	L	44	2	R-405D	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #D	Y
5484	Q	V	G	44	2	R-405D	West Side	UNDERFIRE GAS VALVE	TOP #D	Y
5485	Q	V	G	44	2	R-405D	West Side	TOP PRESSURE TAP	TOP #D	Y
5486	Q	V	G	44	2	R-405D	West Side	TOP PRESSURE TAP (2nd Valve)	TOP #D	Y
5487	A,V,O	C	G	44	2	R-405D	West Side	TOP PRESSURE GAUGE	TOP #D	Y
5489	Q	V	G	44	2	R-405D	West Side	SUB GAS VALVE	TOP #D	Y
5490	UTM	V	L	44	2	R-405D	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #D	UTM
5491	Q	PRV	G	44	2	R-405D	Top Platform	PRESSIRE RELIEF VALVE	TOP #D	Y
5492	Q	V	G	44	2	R-405D	Top Platform	PRESSIRE RELIEF BLOCKING VALVE	TOP #D	Y
5467	Q	V	G	44	2	R-405D	South R-405D	BLOCKING VALVE ON MAIN DOWN RIVER HEADER	TOP-SOUTH #D	Y
5448	Q	V	G	44	2	R-405D	South R-405D	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-SOUTH #D	Y
5494	WASH	V	G	44	2	R-405D	R-405D	MID LEVEL PRESSURE TAP VALVE	TOP #D	Y
5493	WASH	V	L	44	2	R-405D	R-405D	LOW LEVEL PRESSURE TAP COLD	TOP #D	Y
	A,V,O	C(x3)	G	44	2	R-405D	R-405D	MISCELLANEOUS UNMARKED FLANGES	TOP #D	DTM

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TABLE 45
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD NO. 6

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0451		MAIN GAS BLOCKING VALVES							
5550	WASH	V	L	45	2	MAIN QUAD	R-406A	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5593	WASH	V	L	45	2	MAIN QUAD	R-406A	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5500	WASH	V	L	45	2	MAIN QUAD	R-406A	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5531	WASH	V	L	45	2	MAIN QUAD	R-406B	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5543	WASH	V	L	45	2	MAIN QUAD	R-406B	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5575	WASH	V	L	45	2	MAIN QUAD	R-406B	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5506	WASH	V	L	45	2	MAIN QUAD	R-406C	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5524	WASH	V	L	45	2	MAIN QUAD	R-406C	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5503	WASH	V	L	45	2	MAIN QUAD	R-406C	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5509	WASH	V	L	45	2	MAIN QUAD	R-406D	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5512	WASH	V	L	45	2	MAIN QUAD	R-406D	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5513	WASH	V	L	45	2	MAIN QUAD	R-406D	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
0452		SUB GAS MANIFOLD / NITROGEN							
5515	N/A(vac)	V	GV	45	2	MAIN QUAD	QUAD 6	SUB GAS HEADER CLEANOUT VALVE	HEADER	N
5516	N/A(vac)	V	GV	45	2	MAIN QUAD	QUAD 6	BLOCKING VALVE NITROGEN PURGE	HEADER	Y
5517	N/A(vac)	V	GV	45	2	MAIN QUAD	QUAD 6	CLEAN OUT VALVE SUB GAS VACUUM LINE	HEADER	Y
5518	N/A(vac)	V	GV	45	2	MAIN QUAD	QUAD 6	BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5519	N/A(vac)	V	GV	45	2	MAIN QUAD	QUAD 6	BLEED VALVE SUB GAS VACUUM LINE	HEADER	Y
0453									
5520	Q	V	G	45	2	R-406A	West Side	RAW GAS VALVE	TOP #A	Y
5521	Q	V	G	45	2	R-406A	West Side	TOP WEST PRESSURE TAP VALVE	TOP #A	Y
5522	Q	V O/E	G	45	2	R-406A	West Side	TOP WEST PRESSURE TAP CLEANOUT VALVE	TOP #A	Y
5525	Q	V	G	45	2	R-406A	West Side	DOWN RIVER GAS VALVE	TOP #A	Y
5526	UTM	V	L	45	2	R-406-A	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #A	UTM
5527	Q	V O/E	L	45	2	R-406-A	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #A	Y
5528	Q	V	G	45	2	R-406A	East Side	UNDER FIRE GAS VALVE	TOP #A	Y
5529	Q	V	G	45	2	R-406A	East Side	SUB GAS VALVE	TOP #A	Y
5530	Q	V	G	45	2	R-406A	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #A	Y
5532	Q	PRV	G	45	2	R-406A	Top Platform	PRESSURE RELIEF VALVE	TOP #A	Y
5537	Q	V	G	45	2	R-406A	Top Platform	PRV BLOCKING VALVE	TOP #A	Y
5534	WASH	V	G	45	2	R-406A	R-406A	MID LEVEL PRESSURE TAP VALVE	MIDDLE #A	Y
5535	WASH	V	L	45	2	R-406A	R-406A	LOW LEVEL PRESSURE TAP COLD	BOTTOM #A	Y
	A.V.O	C(x3)	G	45	2	R-406A	R-406A	MISCELLANEOUS UNMARKED FLANGES	TOP #A	DTM
0454		UNIT B							
5540	Q	V	G	45	2	R-406B	West Side	RAW GAS VALVE	TOP #B	Y
5541	Q	V	G	45	2	R-406B	West Side	TOP WEST PRESSURE TAP VALVE	TOP #B	Y
5542	Q	V O/E	G	45	2	R-406B	West Side	TOP WEST PRESSURE TAP CLEANOUT VALVE	TOP #B	Y
5544	Q	V	G	45	2	R-406B	West Side	DOWN RIVER GAS VALVE	TOP #B	Y
5545	UTM	V	L	45	2	R-406-B	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #B	UTM
5546	Q	V O/E	L	45	2	R-406-B	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #B	Y
5547	Q	V	G	45	2	R-406B	East Side	UNDER FIRE GAS VALVE	TOP #B	Y
5548	Q	V	G	45	2	R-406B	East Side	SUB GAS VALVE	TOP #B	Y
5549	UTM	V	G	45	2	R-406B	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #B	UTM
5551	Q	PRV	G	45	2	R-406B	Top Platform	PRESSURE RELIEF VALVE	TOP #B	Y
5552	Q	V	G	45	2	R-406B	Top Platform	PRV BLOCKING VALVE	TOP #B	Y
5553	WASH	V	G	45	2	R-406B	R-406B	MID LEVEL PRESSURE TAP VALVE	MIDDLE #B	Y
5554	WASH	V	L	45	2	R-406B	R-406B	LOW LEVEL PRESSURE TAP COLD	BOTTOM #B	Y
	A.V.O	C(x3)	G	45	2	R-406B	R-406B	MISCELLANEOUS UNMARKED FLANGES	TOP #B	DTM

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TABLE 45 (continued)

0455		UNIT C								
5560	Q	V	G	45	2	R-406C	West Side	RAW GAS VALVE	TOP #C	Y
5561	Q	V	G	45	2	R-406C	West Side	TOP WEST PRESSURE TAP VALVE	TOP #C	Y
5562	Q	V O/E	G	45	2	R-406C	West Side	TOP WEST PRESSURE TAP CLEANOUT VALVE	TOP #C	Y
5563	A,V,O	C	G	45	2	R-406C	West Side	TOP WEST PRESSURE TAP GAUGE	TOP #C	Y
5565	Q	V	G	45	2	R-406C	West Side	DOWN RIVER GAS VALVE	TOP #C	Y
5566	UTM	V	L	45	2	R-406-C	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #C	UTM
5567	Q	V O/E	L	45	2	R-406-C	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #C	Y
5568	Q	V	G	45	2	R-406C	East Side	UNDER FIRE GAS VALVE	TOP #C	Y
5569	Q	V	G	45	2	R-406C	East Side	SUB GAS VALVE	TOP #C	Y
5570	UTM	V	G	45	2	R-406C	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #C	UTM
5571	Q	PRV	G	45	2	R-406C	Top Platform	PRESSURE RELIEF VALVE	TOP #C	Y
5572	Q	V	G	45	2	R-406C	Top Platform	PRV BLOCKING VALVE	TOP #C	Y
5573	WASH	V	G	45	2	R-406C	R-406C	MID LEVEL PRESSURE TAP VALVE	MIDDLE #C	Y
5574	WASH	V	L	45	2	R-406C	R-406C	LOW LEVEL PRESSURE TAP COLD	COTTOM #C	Y
	A,V,O	C(x3)	G	45	2	R-406C	R-406C	MISCELLANEOUS UNMARKED FLANGES	TOP #C	DTM
0456		UNIT D								
5580	Q	V	G	45	2	R-406D	West Side	RAW GAS VALVE	TOP #D	Y
5581	Q	V	G	45	2	R-406D	West Side	TOP WEST PRESSURE TAP VALVE	TOP #D	Y
5582	Q	V O/E	G	45	2	R-406D	West Side	TOP WEST PRESSURE TAP CLEANOUT VALVE	TOP #D	Y
5584	Q	V	G	45	2	R-406D	West Side	DOWN RIVER GAS VALVE	TOP #D	Y
5585	Q	V	L	45	2	R-406-D	South Side	TOP LEVEL SOUTH PRESSURE TAP	TOP #D	Y
5583	Q	V O/E	L	45	2	R-406-D	West Side	TOP LEVEL SOUTH PRESSURE TAP EXTENSION	TOP #D	Y
5586	Q	V	G	45	2	R-406D	East Side	UNDER FIRE GAS VALVE	TOP #D	Y
5587	Q	V	G	45	2	R-406D	East Side	SUB GAS VALVE	TOP #D	Y
5588	UTM	V	G	45	2	R-406D	North Side	TOP LEVEL NORTH STEAM VALVE	TOP #D	UTM
5589	Q	PRV	G	45	2	R-406D	Top Platform	PRESSURE RELIEF VALVE	TOP #D	Y
5590	Q	V	G	45	2	R-406D	Top Platform	PRV BLOCKING VALVE	TOP #D	Y
5554	Q	V	G	45	2	R-406D	South R-406A	BLOCKING VALVE ON MAIN UNDERFIRE HEADER	TOP-SOUTH #D	Y
5555	Q	V	G	45	2	R-406D	South R-406A	BLOCKING VALVE ON MAIN DOWN RIVER HEADER	TOP-SOUTH #D	Y
5591	WASH	V	G	45	2	R-406D	R-406D	MID LEVEL PRESSURE TAP VALVE	MIDDLE #D	Y
5592	WASH	V	L	45	2	R-406D	R-406D	LOW LEVEL PRESSURE TAP COLD	DOTTOM #D	Y
	A,V,O	C(x3)	G	45	2	R-406D	R-406D	MISCELLANEOUS UNMARKED FLANGES	TOP #D	DTM

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TABLE 46
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MAIN QUAD NO. 7

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0461		MAIN GAS BLOCKING VALVES							
5600	WASH	V	L	46	2	MAIN QUAD	R-407D	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5601	WASH	V	L	46	2	MAIN QUAD	R-407D	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5602	WASH	V	L	46	2	MAIN QUAD	R-407D	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5603	WASH	V	L	46	2	MAIN QUAD	R-407C	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5604	WASH	V	L	46	2	MAIN QUAD	R-407C	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5605	WASH	V	L	46	2	MAIN QUAD	R-407C	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5606	WASH	V	L	46	2	MAIN QUAD	R-407B	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5607	WASH	V	L	46	2	MAIN QUAD	R-407B	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5608	WASH	V	L	46	2	MAIN QUAD	R-407B	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5609	WASH	V	L	46	2	MAIN QUAD	R-407A	SUB GAS COLD SEPARATOR BLOCKING VALVE	BOTTOM	Y
5610	WASH	V	L	46	2	MAIN QUAD	R-407A	DOWNRIVER GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
5611	WASH	V	L	46	2	MAIN QUAD	R-407A	UNDERFIRE GAS COLD SEPARATOR BLOCK VALVE	BOTTOM	Y
0462		SUB GAS MANIFOLD / NITROGEN							
5615	N/A(vac)	V	GV	46	2	MAIN QUAD	QUAD 7	SUB GAS HEADER CLEAN OUT VALVE	HEADER	DTM
5616	N/A(vac)	V	GV	46	2	MAIN QUAD	QUAD 7	BLOCKING VALVE SUB GAS VACUUM LINE	HEADER	Y
5617	N/A(vac)	V	GV	46	2	MAIN QUAD	QUAD 7	BLOCKING VALVE NITROGEN PURGE	HEADER	Y
0463		UNIT A							
5620	Q	V	G	46	2	R-407A	West Side	RAW GAS VALVE	TOP #A	Y
5621	Q	V	G	46	2	R-407A	West Side	DOWN RIVER GAS VALVE	TOP #A	Y
5622	Q	V	G	46	2	R-407A	East Side	UNDERFIRE GAS VALVE	TOP #A	Y
5623	Q	V O/E	G	46	2	R-407A	East Side	TOP PRESSURE TAP VALVE (Capped Open End)	TOP #A	Y
5626	Q	V	G	46	2	R-407A	East Side	SUB GAS VALVE	TOP #A	Y
5631	Q	PRV	G	46	2	R-407A	Top Platform	PRESSURE RELIEF VALVE	TOP #A	Y
5632	Q	V	G	46	2	R-407A	Top Platform	PRV BLOCKING VALVE	TOP #A	Y
5629	WASH	V	G	46	2	R-407A	R-407A	MID LEVEL PRESSURE TAP VALVE	MID #A	Y
5630	WASH	V	L	46	2	R-407A	R-407A	LOW LEVEL PRESSURE TAP COLD	LOW #A	N
	A,V,O	C(x4)	G	46	2	R-407A	R-407A	MISCELLANEOUS UNMARKED FLANGES	TOP #A	DTM
0464		UNIT B							
5640	Q	V	G	46	2	R-407B	West Side	RAW GAS VALVE	TOP #B	Y
5641	Q	V	G	46	2	R-407B	West Side	DOWN RIVER GAS VALVE	TOP #B	Y
5642	Q	V	G	46	2	R-407B	East Side	UNDERFIRE GAS VALVE	TOP #B	Y
5643	Q	V	G	46	2	R-407B	East Side	TOP PRESSURE TAP VALVE	TOP #B	Y
5644	Q	V O/E	G	46	2	R-407B	East Side	TOP PRESSURE TAP CLEANOUT VALVE	TOP #B	Y
5646	Q	V	G	46	2	R-407B	East Side	SUB GAS VALVE	TOP #B	Y
5648	Q	PRV	G	46	2	R-407B	Top Platform	PRESSURE RELIEF VALVE	TOP #B	Y
5649	Q	V	G	46	2	R-407B	Top Platform	PRV BLOCKING VALVE	TOP #B	Y
5650	WASH	V	G	46	2	R-407B	R-407B	MID LEVEL PRESSURE TAP VALVE	MID #B	Y
5651	WASH	V	L	46	2	R-407B	R-407B	LOW LEVEL PRESSURE TAP COLD	LOW #B	N
	A,V,O	C(x4)	G	46	2	R-407B	R-407B	MISCELLANEOUS UNMARKED FLANGES	TOP #B	DTM
0465		UNIT C							
5660	Q	V	G	46	2	R-407C	West Side	RAW GAS VALVE	TOP #C	Y
5661	Q	V	G	46	2	R-407C	West Side	DOWN RIVER GAS VALVE	TOP #C	Y
5662	Q	V	G	46	2	R-407C	East Side	UNDERFIRE GAS VALVE	TOP #C	Y
5663	Q	V	G	46	2	R-407C	East Side	TOP PRESSURE TAP VALVE	TOP #C	Y
5664	Q	V O/E	G	46	2	R-407C	East Side	TOP PRESSURE TAP CLEANOUT VALVE	TOP #C	Y
5666	Q	V	G	46	2	R-407C	East Side	SUB GAS VALVE	TOP #C	Y
5671	Q	PRV	G	46	2	R-407C	Top Platform	PRESSURE RELIEF VALVE	TOP #C	Y
5672	Q	V	G	46	2	R-407C	Top Platform	PRV BLOCKING VALVE	TOP #C	Y
5669	WASH	V	G	46	2	R-407C	R-407C	MID LEVEL PRESSURE TAP VALVE	MID #C	Y
5670	WASH	V	L	46	2	R-407C	R-407C	LOW LEVEL PRESSURE TAP COLD	LOW #C	N
	A,V,O	C(x4)	G	46	2	R-407C	R-407C	MISCELLANEOUS UNMARKED FLANGES	TOP #C	DTM

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TABLE 46 (continued)

0456		UNIT D							
5680	Q	V	G	46	2	R-407D	West Side	RAW GAS VALVE	TOP #D	Y
5681	Q	V	G	46	2	R-407D	West Side	DOWN RIVER GAS VALVE	TOP #D	Y
5682	Q	V	G	46	2	R-407D	East Side	UNDERFIRE GAS VALVE	TOP #D	Y
5683	Q	V O/E	G	46	2	R-407D	East Side	TOP PRESSURE TAP VALVE (Capped Open End)	TOP #D	Y
5684	Q	V O/E	G	46	2	R-407D	East Side	TOP PRESSURE TAP CLEANOUT VALVE	TOP #D	Y
5686	Q	V	G	46	2	R-407D	East Side	SUB GAS VALVE	TOP #D	Y
5688	Q	PRV	G	46	2	R-407D	Top Platform	PRESSURE RELIEF VALVE	TOP #D	Y
5689	Q	V	G	46	2	R-407D	Top Platform	PRV BLOCKING VALVE	TOP #D	Y
5690	WASH	V	G	46	2	R-407D	R-407D	MID LEVEL PRESSURE TAP VALVE	MID #D	Y
5691	WASH	V	L	46	2	R-407D	R-407D	LOW LEVEL PRESSURE TAP COLD	LOW #D	N
	A,V,O	C(x4)	G	46	2	R-407D	R-407D	MISCELLANEOUS UNMARKED FLANGES	TOP #D	DTM

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TABLE 47
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL SEPARATOR AREA

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0471		**SUB GAS OUT**							
6041	Q	V	G	47	2	WATER SEP	D-573	SUB GAS OUT BY PASS BLOCKING VALVE	LEVEL 2A	Y
6040	Q	V	G	47	2	WATER SEP	D-573	SUB GAS OUT BLOCKING VALVE	LEVEL 2A	Y
6042	Q	V	G	47	2	WATER SEP	D-573	SUB GAS OUT BLOCKING VALVE	LEVEL 2A	Y
6043	Q	V O/E	G	47	2	WATER SEP	D-573	CLEAN OUT VALVES SUB GAS OUT	LEVEL 2A	Y
6044	Q	V O/E	G	47	2	WATER SEP	D-573	CLEAN OUT VALVES SUB GAS OUT	LEVEL 2A	Y
6045	Q	V O/E	G	47	2	WATER SEP	D-573	CLEAN OUT VALVES SUB GAS OUT	LEVEL 2A	Y
6046	Q	V	G	47	2	WATER SEP	D-573	BLOCKING VALVE FOR RELIEF VALVE	LEVEL 2A	Y
6047	Q	PRV O/E	G	47	2	WATER SEP	D-573	PRESSURE RELIEF VALVE	LEVEL 2A	Y
6048	Q	V O/E	G	47	2	WATER SEP	D-573	CLEAN OUT VALVES SUB GAS OUT	LEVEL 2A	Y
	A,V,O	C	G	47	2	WATER SEP	D-573	UNMARKED FLANGE OFF OF VALVE 6045		Y
0472		**SIGHT GLASS / LEVEL CONTROL - BOTTOM**							
6000	Q	V	G	47	2	WATER SEP	D-573	BOTTOM LEVEL CONTROL	GROUND LEVEL	Y
6001	Q	V	G	47	2	WATER SEP	D-573	BOTTOM SIGHT GLASS	GROUND LEVEL	Y
6002	Q	V O/E	G	47	2	WATER SEP	D-573	BOTTOM LEVEL CONTROL STEAM LINE	GROUND LEVEL	Y
6003	Q	V	G	47	2	WATER SEP	D-573	BOTTOM SIGHT GLASS	GROUND LEVEL, South	Y
6004	Q	V O/E	G	47	2	WATER SEP	D-573	BOTTOM SIGHT GLASS DRAIN	GROUND LEVEL, South	Y
	A,V,O	C(x2)	G	47	2	WATER SEP	D-573	UNMARKED CONNECTORS ON BOTTOM OF LEVEL CONTROL/SIGHT GLASS	GROUND LEVEL	Y
0473		**SIGHT GLASS / LEVEL CONTROL - TOP**							
6030	A	V	L	47	2	WATER SEP	D-573	LEVEL CONTROL TOP VALVE	SECOND LEVEL	DTM
6031	Q	V	L	47	2	WATER SEP	D-573	SIGHT GLASS/ LEVEL CONTROL TOP VALVE	SECOND LEVEL	Y
6032	Q	V O/E	L	47	2	WATER SEP	D-573	SIGHT GLASS/ LEVEL CONTROL TOP DRAIN	SECOND LEVEL	Y
	DTM-A,V,O	C(x2)	G	47	2	WATER SEP	D-573	UNMARKED CONNECTORS ON TOP OF LEVEL CONTROL/SIGHT GLASS	SECOND LEVEL	DTM
0474		**INJECTION / CONTAMINATED WATER**							
6011	N/A-VAC	V O/E	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINE DRAIN BACKUP	GROUND LEVEL	VAC
6012	N/A-VAC	V	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINE DRAIN	GROUND LEVEL	VAC
6013	N/A-VAC	V	L	47	2	LO SEP	D-573	INJECTION WATER LINE BLOCKING	GROUND LEVEL	VAC
6014	N/A-VAC	V O/E	L	47	2	LO SEP	D-573	INJECTION WATER LINE DRAIN	GROUND LEVEL	VAC
6015	N/A-VAC	V O/E	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINE DRAIN	GROUND LEVEL	VAC
6016	N/A-VAC	V	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINES	GROUND LEVEL	VAC
6017	N/A-VAC	V O/E	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINES DRAIN	GROUND LEVEL	VAC
6018	N/A-VAC	V	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINES BLOCKING	GROUND LEVEL	VAC
6019	N/A-VAC	V	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINES DRAIN	GROUND LEVEL	VAC
6020	N/A-VAC	V O/E	L	47	2	LO SEP	D-573	CONTAMINATED WATER LINES DRAIN BACKUP	GROUND LEVEL	VAC
0475		**DISCHARGE TO DECANTERS**							
6005	Q	V	G	47	2	LO SEP	5730B	CONTROL STATION DUMP BLOCK VALVE	GROUND LEVEL	Y
6006	Q	V	G	47	2	LO SEP	5730B	CONTROL VALVE DUMP LINE	GROUND LEVEL	Y
6007	Q	V	G	47	2	LO SEP	5730B	CONTROL STATION DUMP LINE CONTROL VALVE	GROUND LEVEL	Y
6008	Q	V	G	47	2	LO SEP	5730B	DUMP LINE BYPASS VALVE	GROUND LEVEL	Y
6009	Q	V O/E	G	47	2	LO SEP	5730B	DUMP VALVE CLEAOUNT	GROUND LEVEL	Y
6033	Q	V O/E	G	47	2	LO SEP	5730B	CONTROL VALVE DUMP CLEANOUT	GROUND LEVEL	Y
0476		**SUB GAS IN**							
6052	Q	PRV O/E	G	47	2	WATER SEP	D-573	PRESSURE RELIEF VALVE (Reachable from the Mezzanine Level)	LEVEL 2A	Y
6050	A	V O/E	G	47	2	WATER SEP	D-573	SUB GAS INLET PRESSURE TAP	LEVEL 2A	DTM
6051	Q	V O/E	G	47	2	WATER SEP	D-573	PRESSURE GAUGE	LEVEL 2A	Y
OTHER									
6034	Q	V O/E	L	47	2	WATER SEP	D-573	WATER SEPARATOR DRAIN VALVE	FIRST LEVEL, W Side	Y
6049	Q	V O/E	L	47	2	WATER SEP	D-573	WATER SEPARATOR PRESSURE TAP VALVE	FIRST LEVEL, SW Side	Y

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TABLE 48
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB GAS COOLERS

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0481		COOLER 629 IN							
6108	Q	V	G	48	2	COOLER	E-629	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6107	Q	V	G	48	2	COOLER	E-629	INLET BLOCKING VALVE	2nd Level, North Side	Y
6414	Q	V O/E	G	48	2	COOLER	E-629	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
7549	Q	V	G	48	2	COOLER	E-629	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6110	Q	V O/E	G	48	2	COOLER	E-629	INLET BOTTOM COOLER CLEANOUT VALVE	2nd Level, North Side	Y
0483		COOLER 630 IN							
6102	Q	V	G	48	2	COOLER	E-630	INLET BLOCKING VALVE	2nd Level, North Side	Y
6103	Q	V	G	48	2	COOLER	E-630	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6104	Q	V O/E	G	48	2	COOLER	E-630	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6415	Q	V O/E	G	48	2	COOLER	E-630	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6111	Q	V O/E	G	48	2	COOLER	E-630	INLET BOTTOM COOLER CLEANOUT VALVE	2nd Level, North Side	Y
0485		COOLER 632 IN							
6114	Q	V	G	48	2	COOLER	E-630	INLET PRESSURE GAUGE VALVE	2nd Level, North Side	Y
6115	Q	V	G	48	2	COOLER	E-632	INLET BLOCKING VALVE	2nd Level, North Side	Y
6116	A,V,O	C	G	48	2	COOLER	E-632	INLET PRESSURE GAUGE	2nd Level, North Side	Y
6117	Q	V	G	48	2	COOLER	E-632	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6416	Q	V	G	48	2	COOLER	E-632	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
6123	Q	V O/E	G	48	2	COOLER	E-632	INLET BOTTOM COOLER CLEANOUT VALVE	2nd Level, North Side	Y
0487		COOLER 633 IN							
5402	Q	V	G	48	2	COOLER	E-633	INLET PRESSURE GAUGE VALVE	2nd Level, North Side	Y
5404	Q	V	G	48	2	COOLER	E-633	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
5410	Q	V	G	48	2	COOLER	E-633	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
5411	Q	V O/E	G	48	2	COOLER	E-632	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
5408	Q	V O/E	G	48	2	COOLER	E-633	INLET TOP CLEANOUT VALVE	2nd Level, North Side	Y
5405	A,V,O	C	G	48	2	COOLER	E-633	INLET PRESSURE GAUGE	2nd Level, North Side	Y
5407	Q	V	G	48	2	COOLER	E-633	INLET BLOCKING VALVE	2nd Level, North Side	Y
5401	Q	V	G	48	2	COOLER	E-633	INLET BOTTOM COOLER CLEANOUT VALVE	2nd Level, North Side	Y
0482		COOLER 629 OUT							
6130	Q	V O/E	G	48	2	COOLER	E-629	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
6131	Q	V O/E	G	48	2	COOLER	E-629	OUTLET BOTTOM CLEANOUT VALVE	2nd Level, South Side	Y
6132	Q	V O/E	G	48	2	COOLER	E-629	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
0484		COOLER 630 OUT							
6135	Q	V O/E	G	48	2	COOLER	E-630	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
6136	Q	V O/E	G	48	2	COOLER	E-630	OUTLET BOTTOM CLEANOUT VALVE	2nd Level, South Side	Y
6137	Q	V O/E	G	48	2	COOLER	E-630	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
0486		COOLER 632 OUT							
6145	Q	V O/E	G	48	2	COOLER	E-632	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
6146	Q	V O/E	G	48	2	COOLER	E-632	OUTLET BOTTOM CLEANOUT VALVE	2nd Level, South Side	Y
6147	Q	V O/E	G	48	2	COOLER	E-632	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
0488		COOLER 633 OUT							
6148	Q	V O/E	G	48	2	COOLER	E-633	OUTLET TOP CLEANOUT VALVE	2nd Level, South Side	Y
6149	Q	V O/E	G	48	2	COOLER	E-633	OUTLET COOLER TOP PRESSURE TAP CLEANOUT	2nd Level, South Side	Y
6151	A,V,O	C	G	48	2	COOLER	E-633	OUTLET COOLER TOP PRESSURE GAUGE	2nd Level, South Side	Y
6152	Q	V O/E	G	48	2	COOLER	E-633	OUTLET BOTTOM CLEANOUT VALVE	2nd Level, South Side	Y
0489		INLET COOLER MANIFOLD							
6100	A	V O/E	G	48	2	SEPARATOR	D-573	INLET MANIFOLD DRAIN	ENTRY END	DTM
6101	A	V	G	48	2	SEPARATOR	D-573	COOLER INLET MANIFOLD BLOCKING VALVE	ENTRY END	DTM
6118	A	V	G	48	2	SEPARATOR	D-573	COOLER INLET MANIFOLD BLOCKING VALVE	ENTRY END	DTM
6119	A	V O/E	G	48	2	SEPARATOR	D-573	COOLER INLET MANIFOLD DRAIN	ENTRY END	DTM
6106	Q	V O/E	G	48	2	COOLER	E-629	INLET MANIFOLD CLEANOUT VALVE	ENTRY END	N

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TABLE 49
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB GAS WATER SEPARATOR

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
6491		DECANTER DRAIN CONTROL STATION							
6201	Q	V	G	49	2	SEPARATOR	D-575	DRAIN TO DECANTERS	GROUND LEVEL	Y
6202	Q	V	G	49	2	SEPARATOR	D-575	DRAIN TO DECANTERS	GROUND LEVEL	Y
6203	Q	V O/E	G	49	2	SEPARATOR	D-575	DRAIN TO DECANTERS	GROUND LEVEL	Y
6204	Q	V	G	49	2	SEPARATOR	D-575	DRAIN TO DECANTERS	GROUND LEVEL	Y
6205	Q	V	G	49	2	SEPARATOR	D-575	BYPASS VALVE	GROUND LEVEL	Y
6206	Q	V O/E	G	49	2	SEPARATOR	D-575	CLEANOUT/DRAIN VALVE	GROUND LEVEL	Y
OTHER										
6207	Q	V O/E	G	49	2	SEPARATOR	D-575	WATER SEPARATOR BOTTOM DRAIN	GROUND LEVEL	Y
6208	Q	V O/E	G	49	2	SEPARATOR	D-575	WATER SEPARATOR SIDE DRAIN	GROUND LEVEL, WEST	Y
6492		SIGHT GLASS AND LEVEL CONTROL							
6210	Q	V O/E	G	49	2	SEPARATOR	D-575	LEVEL CONTROL BOTTOM CLEANOUT	GROUND LEVEL	Y
6211	Q	V O/E	G	49	2	SEPARATOR	D-575	SIGHT GLASS BOTTOM CLEANOUT	GROUND LEVEL	Y
6212	A	V O/E	G	49	2	SEPARATOR	D-575	TOP VALVE O/E LEVEL CONTROL	GROUND LEVEL	DTM
6213	A	V	G	49	2	SEPARATOR	D-575	TOP VALVE LEVEL CONTROL	GROUND LEVEL	DTM
6214	A	V	G	49	2	SEPARATOR	D-575	TOP VALVE SIGHT GLASS/ LEVEL CONTROL	GROUND LEVEL	DTM
6215	A	V	G	49	2	SEPARATOR	D-575	TOP VALVE SIGHT GLASS/ LEVEL CONTROL	GROUND LEVEL	DTM
6216	A	V O/E	G	49	2	SEPARATOR	D-575	TOP VALVE O/E SIGHT GLASS/ LEVEL CONTROL	GROUND LEVEL	DTM
6217	A,V,O	C(x4)	G	49	2	SEPARATOR	D-575	SIGHT GLASS/LEVEL CONTROL SCREW CONNECTORS	GROUND LEVEL	Y
6218	Q	V O/E	G	49	2	SEPARATOR	D-575	SIGHT GLASS DRAIN	GROUND LEVEL	Y
6219	Q	V	G	49	2	SEPARATOR	D-575	SIGHT GLASS DRAIN	GROUND LEVEL	Y
6220	Q	V O/E	G	49	2	SEPARATOR	D-575	SIGHT GLASS DRAIN	GROUND LEVEL	Y
6221	Q	V O/E	G	49	2	SEPARATOR	D-575	SIGHT GLASS DRAIN	GROUND LEVEL	Y
6222	Q	V	G	49	2	SEPARATOR	D-575	SIGHT GLASS BOTTOM VALVE	GROUND LEVEL	Y
6223	Q	V O/E	G	49	2	SEPARATOR	D-575	SIGHT GLASS DRAIN	GROUND LEVEL	Y
6493		SUB GAS OUT							
6230	Q	V	G	49	2	SEPARATOR	D-575	TOP PRESSURE TAP	TOP OF UNIT, 2nd Level	Y
6231	Q	V	G	49	2	SEPARATOR	D-575	BYPASS VALVE TO D 576	TOP OF UNIT, 2nd Level	Y
6232	Q	V	G	49	2	SEPARATOR	D-575	RELIEF BLOCKING VALVE	TOP OF UNIT, 2nd Level	Y
6233	Q	PRV O/E	G	49	2	SEPARATOR	D-575	RELIEF VALVE	TOP OF UNIT, 2nd Level	Y
6234	Q	V O/E	G	49	2	SEPARATOR	D-575	SMALL VENT VALVE	TOP OF UNIT, 2nd Level	Y
6235	Q	PRV O/E	G	49	2	SEPARATOR	D-575	RELIEF VALVE	TOP OF UNIT, 2nd Level	Y
6236	Q	V O/E	G	49	2	SEPARATOR	D-575	CLEANOUT	TOP OF UNIT, 2nd Level	Y
6237	Q	V	G	49	2	SEPARATOR	D-575	PRESSURE TAP	TOP OF UNIT, 2nd Level	Y
6238	A,V,O	C	G	49	2	SEPARATOR	D-575	PRESSURE GAUGE	TOP OF UNIT, 2nd Level	Y
	A,V,O	C(x2)	G	49	2	SEPARATOR	D-575	MISCELLANEOUS UNMARKED FLANGES	Manway, Top of Tank	Y

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TABLE 50
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB GAS AMMONIA COOLERS

Tag Identification	Monitoring Frequency	Component Type	Process	Figure #	Control Room				
0501		COOLER IN							
6300	Q	V	G	50	2	COOLER	E-635	INLET BLOCKING VALVE	3rd LEVEL, SOUTH SIDE	Y
6301	Q	V O/E	G	50	2	COOLER	E-635	INLET CLEANOUT VALVE	3rd LEVEL, SOUTH SIDE	Y
6302	Q	V O/E	G	50	2	COOLER	E-635	INLET CLEANOUT VALVE	3rd LEVEL, SOUTH SIDE	Y
6304	Q	V	G	50	2	COOLER	E-637	INLET CLEANOUT VALVE	3rd LEVEL, SOUTH SIDE	Y
6305	Q	V O/E	G	50	2	COOLER	E-637	INLET CLEANOUT VALVE BACKUP	3rd LEVEL, SOUTH SIDE	Y
6306	Q	V	G	50	2	COOLER	E-638	INLET BLOCKING VALVE	3rd LEVEL, SOUTH SIDE	Y
6307	Q	V O/E	G	50	2	COOLER	E-638	INLET CLEANOUT VALVE	3rd LEVEL, SOUTH SIDE	Y
0502		COOLER OUT							
6308	Q	V O/E	G	50	2	COOLER	E-638	OUTLET CLEANOUT VALVE	3rd LEVEL, NORTH SIDE	Y
6309	Q	V	G	50	2	COOLER	E-638	OUTLET BLOCKING VALVE	3rd LEVEL, NORTH SIDE	Y
6310	Q	V O/E	G	50	2	COOLER	E-637	OUTLET CLEANOUT VALVE	3rd LEVEL, NORTH SIDE	Y
6311	Q	V O/E	G	50	2	COOLER	E-637	OUTLET CLEANOUT VALVE	3rd LEVEL, NORTH SIDE	Y
6303	Q	V	G	50	2	COOLER	E-635	OUTLET BLOCKING VALVE	3rd LEVEL, NORTH SIDE	Y
6312	Q	V O/E	G	50	2	COOLER	E-635	OUTLET BLOCKING VALVE	3rd LEVEL, NORTH SIDE	Y
6313	Q	V O/E	G	50	2	COOLER	E-635	OUTLET CLEANOUT VALVE	3rd LEVEL, NORTH SIDE	Y
	A,V,O	C(x3)	G	50	2	COOLER	GENERAL	UNMARKED FLANGES	GENERAL	Y

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TABLE 51
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB GAS AMMONIA COOLER SEPARATOR

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0511		DRAIN TO DECANTERS							
6402	Q	V O/E	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER CLEANOUT	GROUND LEVEL	Y
6403	Q	V O/E	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER CLEANOUT	GROUND LEVEL	Y
6404	Q	V	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER BLOCKING	GROUND LEVEL	Y
6405	Q	V	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER BLOCKING BYPASS	GROUND LEVEL	Y
6406	Q	V O/E	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER DRAIN (capped end)	GROUND LEVEL	Y
6409	Q	V	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER BLOCKING	GROUND LEVEL	Y
6410	Q	V	L	51	2	SEPARATOR	D-576	FEED LINE TO DECANTER CONTROL	GROUND LEVEL	Y
0512		SEPARATOR SG/LC BOTTOM							
6411	Q	V	L	51	2	SEPARATOR	D-576	BOTTOM SIGHT GLASS	GROUND LEVEL	Y
6412	Q	V	L	51	2	SEPARATOR	D-576	STEAM CLEANOUT VALVE	GROUND LEVEL	Y
6428	Q	V	L	51	2	SEPARATOR	D-576	BOTTOM SIGHT GLASS CLEANOUT	GROUND LEVEL	Y
6417	Q	V	L	51	2	SEPARATOR	D-576	SIGHTGLASS/LEVEL CONTROL VALVE	GROUND LEVEL	Y
6418	Q	V	L	51	2	SEPARATOR	D-576	BOTTOM SIGHT GLASS DRAIN	GROUND LEVEL	Y
6427	Q	V O/E	L	51	2	SEPARATOR	D-576	BOTTOM SIGHT GLASS DRAIN	GROUND LEVEL	Y
6419	Q	V	L	51	2	SEPARATOR	D-576	SIGHTGLASS/LEVEL CONTROL VALVE	GROUND LEVEL	Y
6420	Q	V O/E	L	51	2	SEPARATOR	D-576	BOTTOM LEVEL CONTROL DRAIN	GROUND LEVEL	Y
6421	Q	V	L	51	2	SEPARATOR	D-576	LEVEL CONTROL VALVE	GROUND LEVEL	Y
6422	Q	V O/E	L	51	2	SEPARATOR	D-576	LEVEL CONTROL VALVE	GROUND LEVEL	Y
0513		REGENERATOR FEED SPLITTER							
6448	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER DRAIN	THIRD LEVEL, west of rail	Y
6445	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER DRAIN	THIRD LEVEL, west of rail	Y
6446	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER DRAIN	THIRD LEVEL, west of rail	Y
6455	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6456	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6457	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6458	A	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	10' UP	DTM
6459	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6460	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6461	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER VALVE	THIRD LEVEL	Y
6462	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER PRESSURE GAUGE VALVE	THIRD LEVEL	Y
6463	A,V,O	C	G	51	2	SEPARATOR	D-576	SUB GAS SPLITTER PRESSURE GAUGE	THIRD LEVEL	Y
0514		SUB GAS IN							
6430	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS INLET VALVE	2nd LEVEL, West of Rail	Y
6431	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS INLET VALVE	SECOND LEVEL	Y
6432	Q	V O/E	L	51	2	SEPARATOR	D-576	CLEANOUT VALVE	SECOND LEVEL	Y
0515		SEPARATOR SG/LC TOP							
6413	A,V,O	C(x2)	L	51	2	SEPARATOR	D-576	SIGHTGLASS	GROUND LEVEL	Y
6429	A	V	G	51	2	SEPARATOR	D-576	SIGHTGLASS VALVE BLOCKING	12 FEET UP	DTM
6423	A	V	G	51	2	SEPARATOR	D-576	SIGHTGLASS/LEVEL CONTROL VALVE	12 FEET UP	DTM
6424	A	V	G	51	2	SEPARATOR	D-576	LEVEL CONTROL VALVE TOP CLEANOUT	12 FEET UP	DTM
6425	A,V,O	C(x2)	L	51	2	SEPARATOR	D-576	LEVEL CONTROL	GROUND LEVEL	Y
0516		SUB GAS OUT							
6441	Q	V	G	51	2	SEPARATOR	D-576	SUB SUB GAS RECYCLE	10' UP, 12' OUT	Y
6434	Q	V	G	51	2	SEPARATOR	D-576	RELIEF VALVE BLOCKING VALVE	SECOND LEVEL	Y
6435	Q	PRV O/E	G	51	2	SEPARATOR	D-576	PRESSURE RELIEF VALVE	SECOND LEVEL	Y
6444	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS OUTLET VALVE	10' UP, 12' OUT	Y
6442	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS OUT CLEANOUT VALVE	10' UP, 12' OUT	Y
6443	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS COOLERS BYPASS	10' UP, 12' OUT	Y
6440	Q	PRV O/E	G	51	2	SEPARATOR	D-576	PRESSURE RELIEF VALVE	2nd Level	Y
6450	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS COOLERS BYPASS	3rd Level, West Side	Y
6451	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS COOLERS BYPASS	3rd Level, West Side	Y
6453	Q	V	G	51	2	SEPARATOR	D-576	SUB GAS COOLERS BYPASS	3rd Level, West Side	Y
6454	Q	V O/E	G	51	2	SEPARATOR	D-576	SUB GAS COOLERS BYPASS CLEANOUT	3rd Level, West Side	
OTHER									
6400	Q	V O/E	L	51	2	SEPARATOR	D-576	BOTTOM DRAIN	GROUND LEVEL	Y
6401	Q	V O/E	L	51	2	SEPARATOR	D-576	BOTTOM CLEANOUT	GROUND LEVEL	Y
	A,V,O	C(x7)	L	51	2	SEPARATOR	D-576	MISCELLANEOUS UNMARKED FLANGES	GENERAL	Y

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TABLE 52
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
VACUUM MACHINE HEADERS

Tag Identification	Monitoring Frequency	Components Type	Phase	Figure #	Control Room				
6500	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6501	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6502	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6503	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6504	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6505	N/A	V	GV	52	2	HEADER	VAC MACHINE INLET MANIFOLD BLOCKING	IN INACCESSIBLE	VAC
6510	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6511	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6512	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6513	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6514	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6515	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD CLEANOUT	OUT INACCESSIBLE	UTM
6516	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6517	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6518	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6519	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM
6520	UTM	V	G	52	2	HEADER	VAC MACHINE EXHAUST MANIFOLD BLOCKING	OUT INACCESSIBLE	UTM

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TABLE 53
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL REGENERATOR R-582

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0531	LIGHT OIL WASH SYSTEM - BOTTOM								
6600	A-WASH	V O/E	L	53	2	LO REGEN	R-582	LO WASH SYSTEM UPPER CLEANOUT VALVE	GROUND LEVEL-15'	DTM
6609	WASH	V O/E	L	53	2	LO REGEN	R-582	LO WASH SYSTEM RELIEF VENT VALVE	GROUND LEVEL	Y
6616	WASH	V	L	53	2	LO REGEN	R-582	LO DRAIN SYSTEM	GROUND LEVEL	Y
6619	WASH	V	L	53	2	LO REGEN	R-582	LO DRAIN SYSTEM	GROUND LEVEL	Y
6615	WASH	V	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6617	WASH	V	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6605	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM VALVE	GROUND LEVEL	Y
6607	WASH	V	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6608	WASH	V	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6613	A-WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM NITROGEN	GROUND LEVEL-10'	DTM
6612	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6618	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6610	WASH	V	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6611	WASH	V O/E	L	53	2	LO REGEN	R-582	NITROGEN PURGE LINE	GROUND LEVEL	Y
6606	UTM-WASH	V	L	53	2	LO REGEN	R-582	CHECK VALVE	GROUND LEVEL-20'	UTM
6614	WASH	V	L	53	2	LO REGEN	R-582	DERIMING GAS VALVE	GROUND LEVEL	Y
0532	LIGHT OIL WASH SYSTEM - TOP								
6620	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM VALVE BLOCKING	UPPER MID LEVEL	Y
6621	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
6622	WASH	V O/E	L	53	2	LO REGEN	R-582	LO WASH SYSTEM VALVE CLEANOUT	UPPER MID LEVEL	Y
6625	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEMVALVE	UPPER MID LEVEL	Y
6623	WASH	V O/E	L	53	2	LO REGEN	R-582	LO WASH SYSTEM CLEANOUT VALVE	UPPER MID LEVEL	Y
6624	WASH	V	L	53	2	LO REGEN	R-582	LO WASH SYSTEM VALVE BLOCKING	UPPER MID LEVEL	Y
0533	SUB SUB GAS OUT								
6646	Q	V	G	53	2	LO REGEN	R-582	SUB SUB GAS OUTLET VALVE BLOCKING	TOP	Y
6635	Q	V	G	53	2	LO REGEN	R-582	SUB SUB GAS OUTLET VALVE BLOCKING	TOP	Y
6631	Q	V	G	53	2	LO REGEN	R-582	SUB SUB GAS OUTLET VALVE	UPMID SUB SUB	Y
6632	A,V,O	C	G	53	2	LO REGEN	R-582	SUB SUB GAS PRESSURE GAUGE	UPMID SUB SUB	Y
6633	Q	V O/E	G	53	2	LO REGEN	R-582	SUB SUB GAS VALVE CLEANOUT	UPMID SUB SUB	Y
6634	Q	V	G	53	2	LO REGEN	R-582	SUB SUB GAS BLOCKING VALVE	UPMID SUB SUB	Y
0534	REGENERATOR DIFFERENTIAL PRESSURE								
6640	UTM	V	L	53	2	LO REGEN	R-582	DIFFERENTIAL PRESSURE TAP VALVE	TOP LEVEL, 15' OUT	UTM
6641	UTM	V	L	53	2	LO REGEN	R-582	DIFFERENTIAL PRESSURE TAP VALVE	TOP LEVEL, 15' OUT	UTM
6642	Q	V O/E	L	53	2	LO REGEN	R-582	DIFFERENTIAL PRESSURE TAP CLEANOUT	TOP LEVEL	Y
6643	A,V,O	C	L	53	2	LO REGEN	R-582	DP TRANSDUCER	TOP LEVEL	Y
6644	Q	V	L	53	2	LO REGEN	R-582	DIFFERENTIAL PRESSURE TAP INLINE VALVE	TOP LEVEL	Y
6645	Q	V O/E	L	53	2	LO REGEN	R-582	DIFFERENTIAL PRESSURE TAP 3 BLOCK VALVE	TOP LEVEL	Y
0535	SUB GAS IN								
6650	Q	V	G	53	2	LO REGEN	R-582	SUB GAS INLET VALVE	TOP TO MID	Y
6651	Q	V	G	53	2	LO REGEN	R-582	DERIMING GAS VALVE	UPMID SUB IN	Y
6652	Q	V	G	53	2	LO REGEN	R-582	CLEANOUT VALVE	UPMID SUB IN	Y
6653	Q	V	G	53	2	LO REGEN	R-582	PRESSURE TAP	UPMID SUB IN	Y
6654	A,V,O	C	G	53	2	LO REGEN	R-582	PRESSURE GAUGE	UPMID SUB IN	Y
6655	Q	V O/E	G	53	2	LO REGEN	R-582	LOADING VALVE V 504A2	UPMID SUB IN	Y
0536	CARBONATE GAS OUT								
6656	Q	V	G	53	2	LO REGEN	R-582	CLEAN SUB GAS OUTLET VALVE BLOCKING	TOP TO MID	Y
6627	Q	V	G	53	2	LO REGEN	R-582	CLEAN SUB GAS PRESSURE TAP	UPMID CARB (get rid of 7621)	Y
6601	A	V O/E	G	53	2	LO REGEN	R-582	CLEAN SUB GAS VALVE CLEANOUT	UPMID CARB LN, 10' OUT	DTM
6663	Q	V	G	53	2	LO REGEN	R-582	CLEAN SUB GAS BLOCKING VALVE	UPMID CARB LN	Y
6628	A,V,O	C	G	53	2	LO REGEN	R-582	PRESSURE GAUGE	UPMID CARB (get rid of 7621)	Y
OTHER									
6657	Q	V	L	53	2	LO REGEN	R-582	PRV BLOCKING VALVE	ABOVE REGEN	Y
6626	Q	PRV O/E	L	53	2	LO REGEN	R-582	PRESSURE RELIEF VALVE	ABOVE REGEN (get rid of 7621)	Y
	A,V,O	C(x3)	L	53	2	LO REGEN	R-582	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	GENERAL	Y

TABLE 54
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL REGENERATOR R-584

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room			
0541	LIGHT OIL WASH SYSTEM - BOTTOM							
6700	DTM-WASH	V O/E	L	54	2	LO REGEN	R-584	LO WASH SYSTEM UPPER CLEANOUT VALVE	GROUND LEVEL-15'	DTM
6701	WASH	V O/E	L	54	2	LO REGEN	R-584	LO WASH SYSTEM RELIEF VENT VALVE	GROUND LEVEL	Y
6702	WASH	V	L	54	2	LO REGEN	R-584	LO DRAIN SYSTEM	GROUND LEVEL	Y
6703	WASH	V	L	54	2	LO REGEN	R-584	LO DRAIN SYSTEM	GROUND LEVEL	Y
6704	WASH	V O/E	L	54	2	LO REGEN	R-584	LO DRAIN SYSTEM	GROUND LEVEL	Y
6705	WASH	V	L	54	2	LO REGEN	R-584	LO DRAIN SYSTEM	GROUND LEVEL	Y
6706	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	GROUND LEVEL	Y
6707	WASH	V	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6708	WASH	V O/E	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6709	WASH	V O/E	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6710	DTM-WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM NITROGEN	GROUND LEVEL	DTM
6711	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6717	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6715	WASH	V	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6716	A,V,O	C	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6719	WASH	V	L	54	2	LO REGEN	R-584	NITROGEN PURGE LINE	GROUND LEVEL	Y
6714	UTM-WASH	V	L	54	2	LO REGEN	R-584	CHECK VALVE	GROUND LEVEL	UTM
6712	WASH	V	L	54	2	LO REGEN	R-584	DERIMING GAS VALVE	GROUND LEVEL	Y
0542	LIGHT OIL WASH SYSTEM - TOP									
6720	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
6721	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
6722	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
6723	WASH	V O/E	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
6724	WASH	V	L	54	2	LO REGEN	R-584	LO WASH SYSTEM VALVE	UPPER MID LEVEL	Y
0543	SUB SUB GAS OUT									
6730	Q	V	G	54	2	LO REGEN	R-584	SUB SUB GAS OUTLET VALVE	TOP TO MID	Y
6731	Q	V	G	54	2	LO REGEN	R-584	SUB SUB GAS VALVE	UPMID SUB SUB	Y
6732	Q	V O/E	G	54	2	LO REGEN	R-584	SUB SUB GAS VALVE	UPMID SUB SUB	Y
6734	A	V	G	54	2	LO REGEN	R-584	SUB SUB GAS VALVE	UPMID SUB SUB	DTM
6735	Q	V	G	54	2	LO REGEN	R-584	SUB SUB GAS BLOCKING VALVE	UPMID SUB SUB	Y
0544	REGENERATOR DIFFERENTIAL PRESSURE									
6742	UTM	V	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP VALVE	TOP LEVEL	UTM
6741	Q	V	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP 3 VALVE BLOCK	TOP LEVEL	Y
6743	A,V,O	C	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE	TOP LEVEL	Y
6748	UTM	V	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP VALVE	TOP LEVEL	UTM
6745	Q	V O/E	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP VALVE CLEANOUT	TOP LEVEL	Y
6746	Q	V	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP VALVE	TOP LEVEL	Y
6747	A,V,O	C	L	54	2	LO REGEN	R-584	DIFFERENTIAL PRESSURE TAP GAUGE	TOP LEVEL	Y
0545	SUB GAS IN									
6750	Q	V	G	54	2	LO REGEN	R-584	SUB GAS INLET VALVE	TOP TO MID	Y
6751	Q	V	G	54	2	LO REGEN	R-584	DERIMING GAS VALVE	UPMID SUB IN	Y
6752	Q	V	G	54	2	LO REGEN	R-584	SUB GAS VALVE	UPMID SUB IN	Y
6753	Q	V	G	54	2	LO REGEN	R-584	SUB GAS VALVE	UPMID SUB IN	Y
6754	A,V,O	C	G	54	2	LO REGEN	R-584	SUB GAS VALVE GAUGE	UPMID SUB IN	Y
6755	Q	V O/E	G	54	2	LO REGEN	R-584	SUB GAS O/E VALVE	UPMID SUB IN	Y
6957	Q	V	G	54	2	LO REGEN	R-584	SUB GAS BLOCKING VALVE	UPMID SUB IN	Y
6756	Q	V	G	54	2	LO REGEN	R-584	SUB GAS BLOCKING VALVE	UPMID SUB IN	Y
0546	CARBONATE GAS OUT									
6725	Q	V	G	54	2	LO REGEN	R-584	CLEAN SUB GAS OUTLET VALVE	TOP TO MID	Y
6762	Q	V	G	54	2	LO REGEN	R-584	CLEAN SUB GAS OUT BLOCKING VALVE	UPMID CARB LN	Y
OTHER										
6737	Q	V	L	54	2	LO REGEN	R-584	PRV BLOCKING VALVE	ABOVE REGEN	Y
6736	Q	PRV O/E	L	54	2	LO REGEN	R-584	PRESSURE RELIEF VALVE	ABOVE REGEN	Y
	A,V,O	C(x3)	L	54	2	LO REGEN	R-584	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	GENERAL	Y

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TABLE 55
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL REGENERATOR R-586

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0551	**LIGHT OIL WASH SYSTEM - BOTTOM**								
6802	DTM-WASH	V O/E	L	55	2	LO REGEN	R-586	LO WASH SYSTEM UPPER CLEANOUT VALVE	GROUND LEVEL-15'	DTM
6809	WASH	V O/E	L	55	2	LO REGEN	R-586	LO WASH SYSTEM RELIEF VENT VALVE	GROUND LEVEL	Y
6818	WASH	V	L	55	2	LO REGEN	R-586	LO DRAIN SYSTEM	GROUND LEVEL	Y
6819	WASH	V	L	55	2	LO REGEN	R-586	LO DRAIN SYSTEM	GROUND LEVEL	Y
6820	WASH	V	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6817	WASH	V	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6805	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	GROUND LEVEL	Y
6806	WASH	V	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6808	WASH	V O/E	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6813	DTM-WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM NITROGEN	GROUND LEVEL-10'	DTM
6801	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6804	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6810	WASH	V	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6811	WASH	V	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6812	WASH	C	L	55	2	LO REGEN	R-586	NITROGEN PURGE LINE	GROUND LEVEL	Y
6800	UTM-WASH	V	L	55	2	LO REGEN	R-586	CHECK VALVE	GROUND LEVEL-20'	UTM
6814	WASH	V	L	55	2	LO REGEN	R-586	DERIMING GAS VALVE	GROUND LEVEL	Y
0552	**LIGHT OIL WASH SYSTEM - TOP**								
6803	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6821	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6824	WASH	V O/E	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6834	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6835	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6822	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
6825	WASH	C	L	55	2	LO REGEN	R-586	LO WASH SYSTEM PRESSURE GAUGE	UPPER MID	Y
6823	WASH	V	L	55	2	LO REGEN	R-586	LO WASH SYSTEM VALVE	UPPER MID	Y
	WASH	C	L	55	2	LO REGEN	R-586	UNMARKED BLIND FLANGE	UPPER MID	Y
0553	**SUB SUB GAS OUT**								
6830	Q	V	G	55	2	LO REGEN	R-586	SUB SUB GAS OUTLET VALVE	LOW TOP	Y
6831	Q	V	G	55	2	LO REGEN	R-586	SUB SUB GAS VALVE	UPPER MID	Y
6832	A,V,O	C	G	55	2	LO REGEN	R-586	SUB SUB GAS PRESSURE GAUGE	UPPER MID	Y
6833	Q	V	G	55	2	LO REGEN	R-586	SUB SUB GAS VALVE	UPPER MID	Y
6847	Q	V	G	55	2	LO REGEN	R-586	SUB SUB GAS BLOCKING VALVE	UPPER MID	Y
0554	**REGENERATOR DIFFERENTIAL PRESSURE**								
6842	UTM	V	L	55	2	LO REGEN	R-586	DIFFERENTIAL PRESSURE TAP VALVE	TOP	UTM
6841	Q	V	L	55	2	LO REGEN	R-586	DIFFERENTIAL PRESSURE TAP 3 VALVE BLOCK	TOP	Y
5667	UTM	V	L	55	2	LO REGEN	R-586	DIFFERENTIAL PRESSURE TAP VALVE	TOP	UTM
6844	Q	V	L	55	2	LO REGEN	R-586	DIFFERENTIAL PRESSURE TAP VALVE	TOP	Y
6845	Q	V O/E	L	55	2	LO REGEN	R-586	DIFFERENTIAL PRESSURE TAP CLEANOUT VALVE	TOP	Y
6846	A,V,O	C	L	55	2	LO REGEN	R-586	PRESSURE GAUGE	TOP	Y
0555	**SUB GAS IN**								
6850	Q	V	G	55	2	LO REGEN	R-586	SUB GAS INLET VALVE	LOW TOP	Y
6851	Q	V	G	55	2	LO REGEN	R-586	SUB GAS VALVE	UPPER MID	Y
6855	A,V,O	C	G	55	2	LO REGEN	R-586	SUB GAS PRESSURE GAUGE	UPPER MID	Y
6852	Q	V	G	55	2	LO REGEN	R-586	SUB GAS VALVE	UPPER MID	Y
6853	Q	V	G	55	2	LO REGEN	R-586	DERIMING GAS VALVE	UPPER MID	Y
6854	Q	V	G	55	2	LO REGEN	R-586	504C2 LOADING VALVE	UPPER MID	Y
0556	**CARBONATE GAS OUT**								
6860	Q	V	L	55	2	LO REGEN	R-586	CLEAN SUB GAS OUTLET VALVE	LOW TOP	Y
6861	Q	V O/E	L	55	2	LO REGEN	R-586	CLEAN SUB GAS VALVE	UPPER MID	Y
6862	Q	V	L	55	2	LO REGEN	R-586	CLEAN SUB GAS VALVE	UPPER MID	Y
6864	Q	V	L	55	2	LO REGEN	R-586	CLEAN SUB GAS VALVE	UPPER MID	Y
6865	Q	V	G	55	2	LO REGEN	R-586	CLEAN SUB GAS BLOCKING VALVE	UPPER MID	Y
OTHER									
6857	Q	V	L	55	2	LO REGEN	R-586	PRESSURE RELIEF BLOCKING VALVE	TOP	Y
6856	Q	PRV O/E	L	55	2	LO REGEN	R-586	PRESSURE RELIEF VALVE	TOP	Y
	A,V,O	C(x3)	L	56	2	LO REGEN	R-590	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	GENERAL	Y

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TABLE 56
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL REGENERATOR R-590

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room			
0561		**LIGHT OIL WASH SYSTEM - BOTTOM**						
6906	DTM-WASH	V O/E	L	56	2	LO REGEN	R-590	LO WASH SYSTEM UPPER CLEANOUT VALVE	GROUND LEVEL-15'	DTM
6909	WASH	V O/E	L	56	2	LO REGEN	R-590	LO WASH SYSTEM RELIEF VENT VALVE	GROUND LEVEL	Y
6916	WASH	V	L	56	2	LO REGEN	R-590	LO DRAIN SYSTEM	GROUND LEVEL	Y
6902	WASH	V	L	56	2	LO REGEN	R-590	LO DRAIN SYSTEM	GROUND LEVEL	Y
6922	WASH	V O/E	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6903	WASH	V	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6917	WASH	V	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6905	WASH	V	L	56	2	LO REGEN	R-590	LO WASH SYSTEM VALVE	GROUND LEVEL	Y
6907	WASH	V	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6908	WASH	V O/E	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6913	DTM-WASH	V	L	56	2	LO REGEN	R-590	LO WASH SYSTEM NITROGEN	GROUND LEVEL-10'	DTM
6901	WASH	V	L	56	2	LO REGEN	R-590	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6904	WASH	V	L	56	2	LO REGEN	R-590	LO WASH SYSTEM AUTOVALVE	GROUND LEVEL	Y
6910	WASH	V	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6911	WASH	V	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	Y
6912	WASH	V O/E	L	56	2	LO REGEN	R-590	NITROGEN PURGE LINE	GROUND LEVEL	N
6918	UTM-WASH	V	L	56	2	LO REGEN	R-590	CHECK VALVE	GROUND LEVEL-20'	UTM
6915	WASH	V	L	56	2	LO REGEN	R-590	DERIMING GAS VALVE	GROUND LEVEL	Y
0562		**LIGHT OIL WASH SYSTEM - TOP**								
6920	WASH	V	L	56	2	LO REGEN	R-590	LIGHT OIL WASH	MID	Y
6921	WASH	V	L	56	2	LO REGEN	R-590	LIGHT OIL WASH	MID	Y
6923	WASH	V	L	56	2	LO REGEN	R-590	LIGHT OIL WASH	MID	Y
6924	WASH	V	L	56	2	LO REGEN	R-590	LIGHT OIL WASH	MID	Y
6925	WASH	V	L	56	2	LO REGEN	R-590	LIGHT OIL WASH	MID	Y
0563		**SUB SUB GAS OUT**								
6930	Q	V	G	56	2	LO REGEN	R-590	SUB SUB GAS OUTLET	MID S 2 GAS	Y
6932	Q	V	G	56	2	LO REGEN	R-590	SUB SUB GAS	MID S 2 GAS	Y
6933	DTM-A,V,O	C	G	56	2	LO REGEN	R-590	SUB SUB GAS PRESSURE GAUGE	MID S 2 GAS	DTM
6934	A	V	G	56	2	LO REGEN	R-590	SUB SUB GAS	MID S 2 GAS	DTM
0564		**REGENERATOR DIFFERENTIAL PRESSURE**								
6945	UTM	V	L	56	2	LO REGEN	R-590	DIFFERENTIAL PRESSURE TAP VALVE	TOP PRESSURE	UTM
6941	Q	V O/E	L	56	2	LO REGEN	R-590	DIFFERENTIAL PRESSURE TAP 3 VALVE BLOCK	TOP PRESSURE	Y
6946	UTM	V	L	56	2	LO REGEN	R-590	DIFFERENTIAL PRESSURE TAP VALVE	TOP PRESSURE	UTM
6943	Q	V	L	56	2	LO REGEN	R-590	DIFFERENTIAL PRESSURE TAP VALVE	TOP PRESSURE	Y
6944	A,V,O	C	L	56	2	LO REGEN	R-590	DIFFERENTIAL PRESSURE	TOP PRESSURE	Y
0565		**SUB GAS IN**								
6950	Q	V	G	56	2	LO REGEN	R-590	SUB GAS INLET	TOP SUB IN	Y
6951	Q	V	G	56	2	LO REGEN	V504-D2	LOADING	TOP SUB IN	Y
6957	Q	V	G	56	2	LO REGEN	V504-D2	SUB GAS	TOP SUB IN	Y
6955	Q	V	G	56	2	LO REGEN	R-590	SUB GAS	TOP SUB IN	Y
6954	Q	V	G	56	2	LO REGEN	R-590	SUB GAS	TOP SUB IN	Y
6953	Q	V	G	56	2	LO REGEN	R-590	SUB GAS PRESSURE VALVE	TOP SUB IN	Y
6952	A,V,O	C	G	56	2	LO REGEN	R-590	SUB GAS PRESSURE GAUGE	TOP SUB IN	Y
0566		**CARBONATE GAS OUT**								
7077	Q	V	G	56	2	LO REGEN	R-590	CARBONATE GAS OUTLET	TOP CARB OUT	Y
6447	Q	V	G	56	2	LO REGEN	R-590	CARBONATE GAS	TOP CARB OUT	Y
6448	Q	V	G	56	2	LO REGEN	R-590	CARBONATE GAS	TOP CARB OUT	Y
6452	Q	V O/E	G	56	2	LO REGEN	R-590	CARBONATE GAS	TOP CARB OUT	Y
6449	A,V,O	C	G	56	2	LO REGEN	R-590	CARBONATE GAS PRESSURE GAUGE	TOP CARB OUT	Y
6431	Q	V	G	56	2	LO REGEN	R-590	CARBONATE GAS	TOP CARB OUT	Y
OTHER										
6935	Q	V	L	56	2	LO REGEN	R-590	PRV BLOCKING VALVE	ABOVE REGEN	Y
6968	Q	PRV O/E	L	56	2	LO REGEN	R-590	PRESSURE RELIEF VALVE	ABOVE REGEN	Y
	A,V,O	C(x3)	L	56	2	LO REGEN	R-590	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	GENERAL	Y

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TABLE 57
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS LIGHT OIL REGENERATION AUSPUFF SYSTEM

Tag Identification	Monitoring Frequency	Component Type	Fluid	Figure #	Control Room				
9571		**SUB SUB GAS CONTROL STATION**							
6970	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION--Recirc Line	MD LVL EAST R582	Y
6971	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION SWITCH VALVE	MD LVL EAST R582	Y
6972	Q	V O/E	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION	MD LVL EAST R582	Y
6973	Q	V O/E	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION	MD LVL EAST R582	Y
6974	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION SWITCH VALVE (VLS11 HA)	MD LVL EAST R582	Y
6975	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS CONTROL STATION--Recirc Line	MD LVL EAST R582	Y
9572		**SUB SUB GAS ORIFICE SYSTEM**							
6976	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE PRESSURE TAP	MD LVL EAST R582	Y
6977	A,V,O	C(x2)	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE PRESSURE TRANSDUCER	MD LVL EAST R582	Y
6978	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE PRESSURE TRANSDUCER VALVE	MD LVL EAST R582	Y
6985	A,V,O	C	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE PRESSURE GAUGE	MD LVL EAST R582	Y
6979	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS BLOCKING VALVE	MD LVL EAST R582	Y
6980	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE AUTO VALVE	MD LVL EAST R582	Y
6981	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE BLOCKING VALVE	MD LVL (below walkway)	Y
6982	Q	V	G	57	2	AUSPUFFS	R-584	SUB SUB GAS ORIFICE PRESSURE TAP VALVE	MD LVL EAST R582	Y
6983	Q	V	G	57	2	AUSPUFFS	PCV6511	SUB SUB GAS ORIFICE PRESSURE GAUGE VALVE	MD LVL EAST R582	Y
6984	A,V,O	C	G	57	2	TRANSDUCER	PCV6511	SUB SUB GAS ORIFICE PRESSURE GAUGE	MD LVL EAST R582	Y
	A,V,O	C(x3)	G	57	2	GENERAL	GENERAL	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	MD LVL EAST R582	Y

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TABLE 58
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS INJECTION WATER SEPARATOR

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room			
0581		DRAIN TO DECANTERS						
7000	Q	V	L	58	2	SEPARATOR	D-600	FEED VALVES TO DECANTER BYPASS	GROUND LEVEL	Y
7001	Q	V O/E	L	58	2	SEPARATOR	D-600	FEED VALVES TO DECANTER CLEANOUT	GROUND LEVEL	Y
7002	Q	V	L	58	2	SEPARATOR	D-600	FEED VALVES TO DECANTER	GROUND LEVEL	Y
7003	Q	V	L	58	2	SEPARATOR	D-600	FEED CONTROL VALVE TO DECANTER	GROUND LEVEL	Y
7004	Q	V	L	58	2	SEPARATOR	D-600	FEED VALVES TO DECANTER	GROUND LEVEL	Y
0582		SEPARATOR SG/LC						
7016	Q	V	L	58	2	SEPARATOR	D-600	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL	GROUND LEVEL	Y
7014	Q	V O/E	L	58	2	SEPARATOR	D-601	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL DRAIN	GROUND LEVEL	Y
7021	Q	V	L	58	2	SEPARATOR	D-602	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL DRAIN	GROUND LEVEL	Y
7028	Q	V O/E	L	58	2	SEPARATOR	D-603	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL DRAIN	GROUND LEVEL	Y
7027	Q	V	L	58	2	SEPARATOR	D-600	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL	GROUND LEVEL	Y
7015	Q	V	L	58	2	SEPARATOR	D-600	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL	GROUND LEVEL	Y
7017	Q	V	L	58	2	SEPARATOR	D-600	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL	GROUND LEVEL	Y
7019	Q	V O/E	L	58	2	SEPARATOR	D-600	BOTTOM VALVES SIGHT GLASS/LEVEL CONTROL	GROUND LEVEL	Y
7020	A,V,O	C(x2)	L	58	2	SEPARATOR	D-600	SIGHT GLASS	GROUND LEVEL	Y
7022	A	V	L	58	2	SEPARATOR	D-600	TOP VALVES SIGHT GLASS/LEVEL CONTROL	12' UP	DTM
7023	A	V	L	58	2	SEPARATOR	D-600	TOP VALVES SIGHT GLASS/LEVEL CONTROL	12' UP	DTM
7024	A,V,O	C(x2)	L	58	2	SEPARATOR	D-600	LEVEL CONTROL	GROUND LEVEL	Y
7025	A	V	L	58	2	SEPARATOR	D-600	TOP VALVES SIGHT GLASS/LEVEL CONTROL	12' UP	DTM
7026	Q	V O/E	L	58	2	SEPARATOR	D-600	SIGHT GLASS BOTTOM VALVES	GROUND LEVEL	Y
0583		SUB SUB GAS OUT						
7031	Q	V O/E	G	58	2	SEPARATOR	D-600	CLEANOUT VALVE	2/3 Level Stairway	Y
7030	Q	V	G	58	2	SEPARATOR	D-600	PRESSURE RELIEF BLOCKING VALVE	2/3 Level Stairway	Y
7032	A	PRV O/E	G	58	2	SEPARATOR	D-600	PRESSURE RELIEF VALVE	2/3 Level Stairway	DTM
7033	Q	V O/E	G	58	2	SEPARATOR	D-600	TOP GAS VALVE CLEANOUT	2/3 Level Stairway	Y
7034	Q	V O/E	G	58	2	SEPARATOR	D-600	TOP GAS VALVE CLEANOUT	2/3 Level Stairway	Y
7035	Q	V O/E	G	58	2	SEPARATOR	D-600	TOP GAS VALVE CLEANOUT	2/3 Level Stairway	Y
7029	Q	V O/E	G	58	2	SEPARATOR	D-600	TOP GAS VALVE CLEANOUT	2/3 Level Stairway	Y
0584		SUB SUB GAS IN						
7036	UTM	V	G	58	2	SEPARATOR	D-600	TOP GAS VALVES TANK BYPASS	20' UP	UTM
7037	UTM	V O/E	G	58	2	SEPARATOR	D-600	TOP GAS VALVES	20' UP	UTM
7038	UTM	V	G	58	2	SEPARATOR	D-600	TOP GAS VALVES	20' UP	UTM
OTHER								
7005	Q	V	L	58	2	SEPARATOR	D-600	BOTTOM TANK DRAIN	GROUND LEVEL	Y
7018	Q	V O/E	L	58	2	SEPARATOR	D-600	BOTTOM SIDE DRAIN	GROUND LEVEL	Y
	A,V,O	C(x3)	L	58	2	SEPARATOR	D-600	MISCELLANEOUS FLANGES AND OTHER UNMARKED CONNECTORS	GENERAL	Y

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TABLE 59
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS WATER COOLER

Tag Identification	Monitoring Frequency	Component Type	Fluid	Figure #	Control Room				
0591		COOLER 639 IN							
7056	Q	V	G	59	2	WATER COOL	E-639	INLET BLOCKING VALVE	LEVEL 2, INLET	Y
7060	Q	V O/E	G	59	2	WATER COOL	E-639	INLET BLOCKING VALVE CLEANOUT	LEVEL 2, INLET	Y
7061	Q	V O/E	G	59	2	WATER COOL	E-639	INLET BLOCKING VALVE CLEANOUT	LEVEL 2, INLET	Y
7057	Q	V O/E	G	59	2	WATER COOL	E-639	INLET CLEANOUT VALVE	LEVEL 2, INLET	Y
7058	Q	V	G	59	2	WATER COOL	E-639	INLET CLEANOUT VALVE	LEVEL 2, INLET	Y
7059	Q	V O/E	G	59	2	WATER COOL	E-639	INLET SIDE COOLER CLEANOUT VALVE	LEVEL 2, INLET	Y
0592		COOLER 639 OUT							
7051	Q	V O/E	G	59	2	WATER COOL	E-639	OUTLET TOP COOLER CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7070	Q	V	G	59	2	WATER COOL	E-639	OUTLET SIDE COOLER CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7071	Q	V	G	59	2	WATER COOL	E-639	OUTLET BLOCKING VALVE	LEVEL 2, DISCHARGE	Y
7072	Q	V O/E	G	59	2	WATER COOL	E-639	OUTLET CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7073	Q	V O/E	G	59	2	WATER COOL	E-639	OUTLET CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
0593		COOLER 640 IN							
7062	Q	V	G	59	2	WATER COOL	E-640	INLET BLOCKING VALVE	LEVEL 2, INLET	Y
7063	Q	V	G	59	2	WATER COOL	E-640	INLET CLEANOUT VALVE	LEVEL 2, INLET	Y
7064	Q	V O/E	G	59	2	WATER COOL	E-640	INLET CLEANOUT VALVE	LEVEL 2, INLET	Y
7065	Q	V O/E	G	59	2	WATER COOL	E-640	INLET SIDE COOLER CLEANOUT VALVE	LEVEL 2, INLET	Y
0594		COOLER 640 OUT							
7055	Q	V O/E	G	59	2	WATER COOL	E-640	OUTLET TOP COOLER CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7074	Q	V O/E	G	59	2	WATER COOL	E-640	OUTLET SIDE COOLER CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7075	Q	V O/E	G	59	2	WATER COOL	E-640	OUTLET CLEANOUT VALVE	LEVEL 2, DISCHARGE	Y
7076	Q	V	G	59	2	WATER COOL	E-640	OUTLET BLOCKING VALVE	LEVEL 2, DISCHARGE	Y
0595		SUB SUB GAS BYPASS LOOP							
7050	Q	V	G	59	2	WATER COOL	E-639/640	BLOCKING VALVE BYPASS LOOP	EAST OF COOLERS	Y
7052	Q	V O/E	G	59	2	WATER COOL	E-639/640	BYPASS LOOP CLEANOUT VALVE	EAST OF COOLERS	Y
7054	Q	V O/E	G	59	2	WATER COOL	E-639/640	BLOCKING VALVE BYPASS LOOP	EAST OF COOLERS	Y

TABLE 60
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS WATER SEPARATOR

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0601		DRAIN TO DECANTERS							
7101	Q	V O/E	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7102	Q	V	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS BLOCKING	GROUND LEVEL	Y
7106	Q	V O/E	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7103	Q	V	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CONTROL VALVE	GROUND LEVEL	Y
7104	Q	V	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS BLOCKING	GROUND LEVEL	Y
7109	Q	V	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS BLOCKING	GROUND LEVEL	Y
7105	Q	V	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7108	Q	V O/E	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7107	A	V O/E	L	60	2	SEPARATOR	D-602	FEED VALVES TO DECANTERS CLEANOUT	GROUND LEVEL	DTM
0602		BOTTOM SG/LC							
7110	Q	V	L	60	3	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7111	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7112	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
5312	Q	V	L	60	2	SEPARATOR	D-602	STEAM BLOCKING VALVE	GROUND LEVEL	Y
7113	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7115	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER DRAIN VALVE	GROUND LEVEL	Y
7116	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7117	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7118	Q	V	L	60	2	SEPARATOR	D-602	SIGHT GLASS LEVEL CONTROLLER	GROUND LEVEL	Y
7119	A,V,O	C(x2)	G	60	2	SEPARATOR	D-602	LEVEL CONTROLLER	GROUND LEVEL	Y
7120	A,V,O	C(x2)	G	60	2	SEPARATOR	D-602	SIGHT GLASS	GROUND LEVEL	Y
0603		SEPARATOR GAS OUT							
7131	Q	V	G	60	2	SEPARATOR	D-602	RELIEF VALVE TAP	SECOND LEVEL	Y
7132	Q	PRV O/E	G	60	2	SEPARATOR	D-602	RELIEF VALVE	SECOND LEVEL	Y
7133	Q	PRV O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT RELIEF VALVE	SECOND LEVEL	Y
7134	Q	V O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CLEANOUT	SECOND LEVEL	Y
7135	Q	V O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CLEANOUT	SECOND LEVEL	Y
7136	Q	V O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CLEANOUT	SECOND LEVEL	Y
7137	Q	V	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT BLOCKING VALVE	SECOND LEVEL	Y
7138	Q	V O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CLEANOUT	SECOND LEVEL	Y
7139	Q	V O/E	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CLEANOUT	SECOND LEVEL	Y
7140	Q	V	G	60	2	SEPARATOR	D-602	SUB SUB GAS RETURN	SECOND LEVEL	Y
0604		TO DOWNRIVER GAS							
7141	Q	V	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT TO DOWN RIVER	THIRD LEVEL	Y
7142	Q	V	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT CONTROL VALVE DOWN RIVER	THIRD LEVEL	Y
7143	Q	V	G	60	2	SEPARATOR	D-602	SUB SUB GAS OUT TO DOWN RIVER	THIRD LEVEL	Y
0605		TOP SG/LC							
7121	A	V	G	60	2	SEPARATOR	D-602	SIGHT GLASS CLEANOUT	12' UP	DTM
7122	A	V	G	60	2	SEPARATOR	D-602	SIGHT GLASS CLEANOUT	12' UP	DTM
7123	A	V O/E	G	60	2	SEPARATOR	D-602	SIGHT GLASS CLEANOUT	12' UP	DTM
7128	A	V	G	60	2	SEPARATOR	D-602	SIGHT GLASS/LEVEL CONTROLLER TOP VALVE	12' UP	DTM
OTHER									
7100	Q	V O/E	L	60	2	SEPARATOR	D-602	TANK BOTTOM DRAIN	GROUND LEVEL	Y
7130	Q	V O/E	L	60	2	SEPARATOR	D-602	INLET PRESSURE TAP	GROUND LEVEL,S 9' High	Y
	A,V,O	C(x5)	G	60	2	SEPARATOR	D-602	MISCELLANEOUS UNMARKED FLANGES	GENERAL AREA	Y

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TABLE 61
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS AMMONIA COOLERS

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Points			
0611		COOLER 641 IN						
7150	Q	V	G	61	2	COOLER	E-641	INLET BLOCKING VALVE	3RD LEVEL, 8' HIGH	Y
7151	Q	V O/E	G	61	2	COOLER	E-641	INLET CLEANOUT VALVE	3RD LEVEL, 8' HIGH	Y
7157	Q	V	G	61	2	COOLER	E-641	INLET BLOCKING VALVE	3RD LEVEL, 8' HIGH	Y
7153	Q	V O/E	G	61	2	COOLER	E-641	INLET CLEANOUT VALVE	3RD LEVEL, 8' HIGH	Y
0612		COOLER 641 OUT						
7167	A,V,O	C	G	61	2	COOLER	E-641	OUTLET PRESSURE GAUGE	3RD LEVEL, SOUTH SIDE	Y
7164	Q	V	G	61	2	COOLER	E-641	OUTLET BLOCKING VALVE	3RD LEVEL, SOUTH SIDE	Y
7165	Q	V O/E	G	61	2	COOLER	E-641	OUTLET CLEANOUT VALVE	3RD LEVEL, SOUTH SIDE	Y
7166	Q	V	G	61	2	COOLER	E-641	OUTLET BLOCKING VALVE	3RD LEVEL, SOUTH SIDE	Y
0613		COOLER 642 IN						
7160	Q	V	G	61	2	COOLER	E-642	INLET BLOCKING VALVE	3RD LEVEL, 8' HIGH	Y
7161	Q	V O/E	G	61	2	COOLER	E-642	INLET CLEANOUT VALVE	3RD LEVEL, 8' HIGH	Y
7162	Q	V	G	61	2	COOLER	E-642	INLET BLOCKING VALVE	3RD LEVEL, 8' HIGH	Y
7163	Q	V O/E	G	61	2	COOLER	E-642	INLET CLEANOUT VALVE	3RD LEVEL, 8' HIGH	Y
0614		COOLER 642 OUT						
7154	Q	V	G	61	2	COOLER	E-642	OUTLET BLOCKING VALVE	3RD LEVEL, SOUTH SIDE	Y
7156	Q	V O/E	G	61	2	COOLER	E-642	OUTLET CLEANOUT VALVE	3RD LEVEL, SOUTH SIDE	Y
7155	Q	V	G	61	2	COOLER	E-642	OUTLET PRESSURE TAP	3RD LEVEL, SOUTH SIDE	Y
7481	A,V,O	C	G	61	2	COOLER	E-642	OUTLET PRESSURE GAUGE	3RD LEVEL, SOUTH SIDE	Y

TABLE 62
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB SUB GAS AMMONIA COOLER SEPARATOR

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control System			
0621		**DRAIN TO DECANTERS**						
7201	Q	V	L	62	2	SEPARATOR	D-624	BYPASS FEED TO DECANTERS	GROUND LEVEL	Y
7202	Q	V	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS	GROUND LEVEL	Y
7203	Q	V	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS	GROUND LEVEL	Y
7204	Q	V	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS	GROUND LEVEL	Y
7205	Q	V	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7209	Q	V O/E	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7214	Q	V O/E	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7206	Q	V O/E	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7207	Q	V	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT	GROUND LEVEL	Y
7208	Q	V O/E	L	62	2	SEPARATOR	D-624	FEED TO DECANTERS CLEANOUT BACKUP	GROUND LEVEL	Y
0622		**SIGHT GLASS / LEVEL CONTROL - BOTTOM**						
7215	Q	V	L	62	2	SEPARATOR	D-624	LEVEL CONTROL BLOCKING	GROUND LEVEL	Y
7216	Q	V O/E	L	62	2	SEPARATOR	D-624	LEVEL CONTROL DRAIN	GROUND LEVEL	Y
7217	Q	V	L	62	2	SEPARATOR	D-624	LEVEL CONTROL VALVE	GROUND LEVEL	Y
7218	Q	V	L	62	2	SEPARATOR	D-624	SIGHT GLASS/ LEVEL CONTROL BLOCKING	GROUND LEVEL	Y
7219	Q	V O/E	L	62	2	SEPARATOR	D-624	SIGHT GLASS DRAIN	GROUND LEVEL	Y
7220	Q	V	L	62	2	SEPARATOR	D-624	SIGHT GLASS VALVE	GROUND LEVEL	Y
7221	Q	V	L	62	2	SEPARATOR	D-624	SIGHT GLASS BOTTOM CONTROL VALVE	GROUND LEVEL	Y
7223	Q	V	L	62	2	SEPARATOR	D-624	LEVEL CONTROL BOTTOM VALVES	GROUND LEVEL	Y
7229	A,V,O	C(x2)	L	62	2	SEPARATOR	D-624	LEVEL CONTROLLER	GROUND LEVEL	Y
7230	A,V,O	C(x2)	L	62	2	SEPARATOR	D-624	SIGHT GLASS	GROUND LEVEL	Y
0623		**BYPASS TO 576 SEPARATOR**						
7235	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 BLOCKING	LEVEL 2 RECYCLE	Y
7236	Q	V O/E	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 CLEANOUT	LEVEL 2 RECYCLE	Y
7237	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 BLOCKING CONTROL	LEVEL 2 RECYCLE	Y
7238	Q	V O/E	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 CLEANOUT	LEVEL 2 RECYCLE	Y
7239	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 BLOCKING	LEVEL 2 RECYCLE	Y
7240	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 BLOCKING BYPASS	LEVEL 2 RECYCLE	Y
0624		**SUB SUB GAS OUT PRESSURE**						
7250	Q	V	G	62	2	SEPARATOR	D-624	PRESSURE RELIEF BLOCKING VALVE	LEVEL 2	Y
7251	Q	PRV O/E	G	62	2	SEPARATOR	D-624	PRESSURE RELIEF VALVE	LEVEL 2	Y
7255	Q	V	G	62	2	SEPARATOR	D-624	BYPASS VALVE	LEVEL 2	Y
7253	Q	V O/E	G	62	2	SEPARATOR	D-624	CLEANOUT	LEVEL 2	Y
7254	Q	V O/E	G	62	2	SEPARATOR	D-624	CLEANOUT	LEVEL 2	Y
7256	Q	V O/E	G	62	2	SEPARATOR	D-624	CLEANOUT	LEVEL 2	Y
0625		**SUB SUB GAS OUT TO DOWNRIVER**						
7280	Q	V O/E	G	62	2	SEPARATOR	D-624	ORIFICE PLATE CLEANOUT VALVE	LEVEL 3	Y
7281	Q	V O/E	G	62	2	SEPARATOR	D-624	ORIFICE PLATE CLEANOUT VALVE	LEVEL 3	Y
7282	Q	V	G	62	2	SEPARATOR	D-624	BLOCKING VALVE TO 3-WAY BLOCK	LEVEL 3	Y
7283	Q	V	G	62	2	SEPARATOR	D-624	3 WAY VALVE	LEVEL 3	Y
7285	Q	V	G	62	2	SEPARATOR	D-624	BLOCKING VALVE TO 3-WAY BLOCK	LEVEL 3	Y
7286	Q	V	G	62	2	SEPARATOR	D-624	BLOCKING VALVE TO DOWNRIVER	LEVEL 3, NORTH OF RAIL	Y
7287	Q	V	G	62	2	SEPARATOR	D-624	3 WAY VALVE DISTRIBUTION	LEVEL 3, NORTH OF RAIL	Y
7288	Q	V	G	62	2	SEPARATOR	D-624	#5 CONTROL ROOM BLOCKING VALVE	LEVEL 3, NORTH OF RAIL	Y
0626		**BYPASS TO 576 SEPARATOR**						
7265	Q	V	G	62	2	SEPARATOR	D-624	SUB SUB GAS OUT VALVE BLOCKING	LEVEL 2 BLEED	Y
7266	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576	LEVEL 2 BLEED	Y
7267	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576	LEVEL 2 BLEED	Y
7268	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576	LEVEL 2 BLEED	Y
7269	Q	V	G	62	2	SEPARATOR	D-624	BY PASS TO D-576 CONTROL	LEVEL 2 BLEED	Y
7270	Q	V O/E	G	62	2	SEPARATOR	D-624	CLEANOUT	LEVEL 2 BLEED	Y
7271	Q	V	G	62	2	SEPARATOR	D-624	PRESSURE TAP LINE VALVE	LEVEL 2 BLEED	Y
7261	A,V,O	C	G	62	2	SEPARATOR	D-624	PRESSURE GAUGE	LEVEL 2 BLEED	Y
7260	Q	V O/E	G	62	2	SEPARATOR	D-624	PRESSURE TAP CLEANOUT	LEVEL 2 BLEED	Y
7272	Q	V	G	62	2	SEPARATOR	D-624	BLOCKING VALVE	LEVEL 2 BLEED	Y
7275	Q	V O/E	G	62	2	SEPARATOR	D-624	CLEANOUT	LEVEL 2 BLEED	Y

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TABLE 62 (continued)

0627	BYPASS TO 576 SEPARATOR									
7258	Q	V	G	62	2	SEPARATOR	D-624	SUB SUB GAS OUT VALVE BLOCKING	LEVEL 2	Y
7259	Q	V	G	62	2	SEPARATOR	D-624	SUB SUB GAS OUT VALVE BLOCKING	LEVEL 2	Y
7257	Q	V	G	62	2	SEPARATOR	D-624	SUB SUB GAS OUT VALVE BLOCKING	LEVEL 2	Y
0628	SIGHT GLASS / LEVEL CONTROL - TOP									
7231	A	V	G	62	2	SEPARATOR	D-624	SIGHT GLASS TOP VALVE	12' UP	DTM
7232	A	V O/E	G	62	2	SEPARATOR	D-624	SIGHT GLASS TOP VALVE CLEANOUT	12' UP	DTM
7233	A	V	G	62	2	SEPARATOR	D-624	SIGHT GLASS TOP VALVE	12' UP	DTM
7234	A	V	G	62	2	SEPARATOR	D-624	SIGHT GLASS/ LEVEL CONTROL VALVES	12' UP	DTM
OTHER										
7209	Q	V O/E	L	62	2	SEPARATOR	D-624	TANK BOTTOM DRAIN	GROUND LEVEL	Y
	A,V,O	C(>5)	G	62	2	SEPARATOR	D-624	MISCELLANEOUS FLANGES AND CONNECTORS	GENERAL	Y

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TABLE 63
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL DECANT AREA

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
7300	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON TOP SOUTH SIDE OF TANK	GROUND LEVEL	Y
7301	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON EAST MANWAY	GROUND LEVEL	Y
7354	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON EAST MANWAY	GROUND LEVEL	Y
7364	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON EAST UPPER SIDE OF TK	GROUND LEVEL	Y
7365	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON EAST UPPER SIDE OF TK	GROUND LEVEL	Y
7369	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON EAST LOWER PORTION OF TK	GROUND LEVEL	Y
7366	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON SOUTH LOWER PORTION OF TK	GROUND LEVEL	Y
7306	Q	V	L	63	2	LO DECANT	D-604	TRANSFER PUMP LINE BLOCKING VALVE	GROUND LEVEL	Y
7307	Q	V	L	63	2	LO DECANT	D-604	TRANSFER PUMP LINE BLOCKING VALVE	GROUND LEVEL	Y
7308	Q	V O/E	L	63	2	LO DECANT	D-604	TRANSFER PUMP LINE CLEANOUT VALVE	GROUND LEVEL	Y
7312	Q	V	L	63	2	LO DECANT	D-604/605	TRANSFER PUMP LINE BLOCKING VALVE	GROUND LEVEL	Y
7332	Q	V O/E	L	63	2	LO DECANT	D-605	TRANSFER PUMP LINE CLEANOUT VALVE	GROUND LEVEL	Y
7331	Q	V	L	63	2	LO DECANT	D-605	TRANSFER PUMP LINE BLOCKING VALVE	GROUND LEVEL	Y
7330	Q	V	L	63	2	LO DECANT	D-605	TRANSFER PUMP LINE BLOCKING VALVE	GROUND LEVEL	Y
7363	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON NORTH LOWER PORTION OF TK	GROUND LEVEL	Y
7359	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON NORTH TOP OF TANK	8' UP	Y
7361	Q	V	L	63	2	LO DECANT	D-604	VALVE ON NORTH MANWAY--CLEANOUT VALVE	GROUND LEVEL	Y
7362	Q	V O/E	L	63	2	LO DECANT	D-604	VALVE ON NORTH MANWAY--CLEANOUT VALVE	GROUND LEVEL	Y
7313	Q	V O/E	L	63	2	LO DECANT	D-604	BOTTOM OF SIGHT GLASS DRAIN	GROUND LEVEL	Y
7314	A	V	L	63	2	LO DECANT	D-604	TOP OF SIGHT GLASS	GROUND LEVEL	DTM
7315	Q	V	L	63	2	LO DECANT	D-604	BOTTOM OF SIGHT GLASS	GROUND LEVEL	Y
7367	Q	V	L	63	2	LO DECANT	D-604	L.O SEPERATOR LOADING LINE	GROUND LEVEL	Y
7368	Q	V	L	63	2	LO DECANT	D-604	L.O SEPERATOR LOADING LINE	GROUND LEVEL	Y
7370	Q	V	L	63	2	LO DECANT	D-605	L.O SEPERATOR LOADING LINE	GROUND LEVEL	Y
7371	Q	V	L	63	2	LO DECANT	D-605	L.O SEPERATOR LOADING LINE	GROUND LEVEL	Y
7310	A,V,O	C(x2)	L	63	2	LO DECANT	D-605	NORTH SIDE LEVEL CONTROL UPPER/LOWER CONNECTING FLANGES	GROUND LEVEL	Y
7302	Q	V	L	63	2	LO DECANT	D-605	D-605 LEVEL CONTROL LOWER CONNECTING VALVE	GROUND LEVEL	Y
7305	Q	V O/E	L	63	2	LO DECANT	D-605	D-605 LEVEL CONTROL LOWER CLEANOUT VALVE O/E	GROUND LEVEL	Y
7309	Q	V O/E	L	63	2	LO DECANT	D-605	D-605 LEVEL CONTROL LOWER DRAIN VALVE O/E	GROUND LEVEL	Y
7303	A	V O/E	L	63	2	LO DECANT	D-605	D-605 LEVEL CONTROL UPPER VENT VALVE O/E	GROUND LEVEL	Y
7326	A	V	L	63	2	LO DECANT	D-605	D-605 LEVEL CONTROL UPPER CONNECTING VALVE	12' UP	DTM
7355	Q	V O/E	L	63	2	LO DECANT	D-605	VALVE ON SOUTH LOWER PORTION OF TK	12' UP	DTM
7356	Q	V O/E	L	63	2	LO DECANT	D-605	VALVE ON NORTH LOWER PORTION OF TK	GROUND LEVEL	Y
7353	Q	V O/E	L	63	2	LO DECANT	D-605	BLIND VALVE ON EAST UPPER SIDE OF TK	GROUND LEVEL	Y
7352	Q	V O/E	L	63	2	LO DECANT	D-605	VALVE ON EAST MANWAY	8' UP	Y
7357	Q	V O/E	L	63	2	LO DECANT	D-605	VALVE ON NORTH TOP OF TANK	GROUND LEVEL	Y
7358	Q	V O/E	L	63	2	LO DECANT	D-605	VALVE ON SOUTH TOP OF TANK	8' UP	Y
7372	Q	V O/E	L	63	2	LO DECANT	D-605	WEST SIDE BOTTOM DRAIN VALVE	8' UP	Y
7336	Q	V	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS BOTTOM VALVE	GROUND LEVEL	Y
7337	Q	V O/E	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS BOTTOM DRAIN	GROUND LEVEL	Y
7338	Q	V O/E	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS BOTTOM CLEANOUT	GROUND LEVEL	Y
7340	A,V,O	C(x2)	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS	GROUND LEVEL	Y
7342	Q	V O/E	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS TOP CLEANOUT	GROUND LEVEL	Y
7341	Q	V	L	63	2	LO DECANT	D-605	SOUTH SIDE SIGHT GLASS TOP VALVE	TOP LADDER, south	Y
7317	Q	V O/E	G	63	2	LO DECANT	D-604	PRESSURE RELIEF CLEANOUT	TOP LADDER, south	Y
7318	Q	PRV O/E	G	63	2	LO DECANT	D-604	PRESSURE RELIEF VALVE	TOP LEVEL	Y
7321	Q	V	G	63	2	LO DECANT	D-604	VENT LINE CLEANOUT	TOP LEVEL	Y
7320	Q	V	G	63	2	LO DECANT	D-604	VENT LINE CLEANOUT	TOP LEVEL	Y
7319	Q	V O/E	G	63	2	LO DECANT	D-604	VENT LINE CLEANOUT	TOP LEVEL	Y
7322	Q	V	G	63	2	LO DECANT	D-604	VENT LINE BLOCKING VALVE	TOP LEVEL	Y
7323	Q	V	G	63	2	LO DECANT	D-604	VENT LINE PRESSURE TAP	TOP LEVEL	Y
7324	Q	V	G	63	2	LO DECANT	D-604	VENT LINE PRESSURE TAP	TOP LEVEL	Y
7304	A	V	G	63	2	LO DECANT	D-604/605	RETURN LINE FROM DECANTER PUMPS BLOCKING VALVE (west of D-604)	GROUND LEVEL, 10' High	N
7316	A	V O/E	G	63	2	LO DECANT	D-604/605	RETURN LINE FROM DECANTER PUMPS CLEANOUT VALVE (west of D-604)	GROUND LEVEL, 10' High	N
7325	A,V,O	C	G	63	2	LO DECANT	D-604	VENT LINE PRESSURE GAUGE	TOP LEVEL	Y
7327	Q	V O/E	G	63	2	LO DECANT	D-604	RETURN LINE TO PUMPS	TOP LEVEL	Y
7328	Q	V	G	63	2	LO DECANT	D-604	RETURN LINE TO PUMPS	TOP LEVEL	Y
7329	Q	V O/E	G	63	2	LO DECANT	D-604	RETURN LINE TO PUMPS	TOP LEVEL	Y
7351	Q	V	G	63	2	LO DECANT	D-605/604	BETWEEN TANKS	TOP LEVEL	Y
7350	Q	V O/E	G	63	2	LO DECANT	D-605/604	RELIEF VALVE	2ND LEVEL	Y
7343	Q	V	G	63	2	LO DECANT	D-605	VENT LINE PRESSURE TAP	2ND LEVEL	Y
7339	Q	V	G	63	2	LO DECANT	D-605	VENT LINE PRESSURE TAP	2ND LEVEL	Y
7335	A,V,O	C	G	63	2	LO DECANT	D-605	VENT LINE PRESSURE GAUGE	2ND LEVEL	Y

TABLE 63 (continued)

7344	Q	V	G	63	2	LO DECANT	D-605	VENT LINE BLOCKING VALVE	2ND LEVEL	Y
7348	Q	V	G	63	2	DECANTERS	D-605	RELIEF VALVE LINE CLEANOUT	2ND LEVEL	Y
7345	Q	V O/E	G	63	2	LO DECANT	D-605	RELIEF VALVE LINE CLEANOUT	2ND LEVEL	Y
7349	Q	PRV O/E	G	63	2	DECANTERS	D-605	PRESSURE RELIEF VALVE	2ND LEVEL	Y
7347	Q	V	G	63	2	LO DECANT	D-605	RELIEF VALVE PRESSURE TAP	2ND LEVEL	Y
7346	A,V,O	C	G	63	2	LO DECANT	D-605	RELIEF VAVLE PRESSURE GAUGE	2ND LEVEL	Y
	A,V,O	C(x13)	G/L	63	2	LO DECANT	D-604/605	MISCELLANEOUS FLANGES, MANWAYS, AND OTHER UNMARKED CONNECTORS	GENERAL AREA	Y

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TABLE 64
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL TRANSFER PUMP AREA

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0641		PUMP INLET							
7400	Q	V O/E	L	64	2	LO PUMP	P-619B	BLIND VALVE NORTH OF PUMP-B ON INLET PUMP FEED LINE	1ST LEVEL IN	Y
7421	Q	V	L	64	2	LO PUMP	P-619B	MAIN BLOCKING VALVE TO PUMP-B	1ST LEVEL IN	Y
7402	Q	V O/E	L	64	2	LO PUMP	P-619B	PUMP-B INLET DRAIN/CLEANOUT VALVE	1ST LEVEL IN	Y
7404	Q	V	L	64	2	LO PUMP	P-619A/B	PUMP A/B SAMPLING SYSTEM LINE	1ST LEVEL IN	Y
7405	Q	V	L	64	2	LO PUMP	P-619A	MAIN BLOCKING VALVE TO PUMP-A	1ST LEVEL IN	Y
7406	Q	V O/E	L	64	2	LO PUMP	P-619A	PUMP-A INLET DRAIN/CLEANOUT VALVE	1ST LEVEL IN	Y
7407	Q	V	L	64	2	LO PUMP	P-619A/B	LO DECANTER PUMP FEED LINE	1ST LEVEL IN	Y
7408	Q	V	L	64	2	LO PUMP	P-619A/B	LO DECANTER PUMP FEED LINE	1ST LEVEL IN	Y
7409	Q	V	L	64	2	LO PUMP	ALL 3	CONTAMINATED WATER BYPASS LINE	1ST LEVEL IN	Y
7410	Q	V O/E	L	64	2	LO PUMP	ALL 3	CONTAMINATED WATER BYPASS LINE DRAIN VALVE	1ST LEVEL IN	Y
7415	M	P	L	64	2	LO PUMP	P-619B	L.O. TRANSFER MAGNETIC PUMP 619B SEAL	1ST LEVEL PUMP	Y
7416	M	P	L	64	2	LO PUMP	P-619A	L.O. TRANSFER MAGNETIC PUMP 619A SEAL	1ST LEVEL PUMP	Y
7417	M	P	L	64	2	LO PUMP	P-619-C	L.O. TRANSFER MAGNETIC PUMP 619C SEAL	1ST LEVEL PUMP	Y
0642		PUMP DISCHARGE							
7403	Q	V	L	64	2	LO PUMP	P-619A	PUMP-A DISCHARGE BLOCKING VALVE	1ST LEVEL OUT	Y
7412	Q	CV	L	64	2	LO PUMP	P-619A	PUMP-A DISCHARGE CHECK VALVE	1ST LEVEL OUT	Y
7401	Q	V	L	64	2	LO PUMP	P-619A	PUMP-A DISCHARGE PRESSURE TAP	1ST LEVEL OUT	Y
7411	A,V,O	C	L	64	2	LO PUMP	P-619A	PUMP-A DISCHARGE PRESSURE GAUGE	1ST LEVEL OUT	Y
7413	Q	V O/E	L	64	2	LO PUMP	P-619A	PUMP-A DISCHARGE CLEANOUT	1ST LEVEL OUT	Y
7446	Q	V	L	64	2	LO PUMP	P-619B	PUMP-B DISCHARGE BLOCKING VALVE	1ST LEVEL OUT	Y
7447	Q	CV	L	64	2	LO PUMP	P-619B	PUMP-B DISCHARGE CHECK VALVE	1ST LEVEL OUT	Y
7448	Q	V	L	64	2	LO PUMP	P-619B	PUMP-B DISCHARGE PRESSURE TAP	1ST LEVEL OUT	Y
7449	A,V,O	C	L	64	2	LO PUMP	P-619B	PUMP-B DISCHARGE PRESSURE GAUGE	1ST LEVEL OUT	Y
7422	Q	V	L	64	2	LO PUMP	P-619B	MAIN PUMP-B DISCHARGE HEADER BLOCKING VALVE	1ST LEVEL OUT	Y
7423	Q	V	L	64	2	LO PUMP	P-619A	MAIN PUMP-A DISCHARGE HEADER BLOCKING VALVE	1ST LEVEL OUT	Y
7424	Q	V O/E	L	64	2	LO PUMP	P-619B/C	PUMP B/C SAMPLING SYSTEM/INJECTION WATER BYPASS CLEANOUT	1ST LEVEL OUT	Y
7425	Q	V	L	64	2	LO PUMP	P-619B/C	PUMP B/C SAMPLING SYSTEM/INJECTION WATER BYPASS	1ST LEVEL OUT	Y
7426	Q	V	L	64	2	LO PUMP	P-619B/C	PUMP B/C SAMPLING SYSTEM/INJECTION WATER BYPASS	1ST LEVEL OUT	Y
7427	Q	V	L	64	2	LO PUMP	P-619B/C	PUMP B/C SAMPLING SYSTEM/INJECTION WATER BYPASS	1ST LEVEL OUT	Y
7428	Q	CV	L	64	2	LO PUMP	P-619C	PUMP C DISCHARGE CHECK VALVE	1ST LEVEL OUT	Y
7429	Q	V	L	64	2	LO PUMP	P-619C	PUMP-C INJECTION WATER BYPASS (out of service)	1ST LEVEL OUT	Y
7430	Q	V	L	64	2	LO PUMP	P-619C	PUMP-C INJECTION WATER BYPASS PRESSURE TAP(out of service)	1ST LEVEL OUT	Y
7431	A,V,O	C	L	64	2	LO PUMP	P-619C	PUMP-C INJECTION WATER BYPASS PRESSURE GAUGE(out of service)	1ST LEVEL OUT	Y
643		2nd LEVEL COMPONENTS							
7420	Q	V	L	64	2	LO PUMP	DISCHARGE	DISCONNECTED LINE (used to lead back to pumps)	2ND LEVEL-just S of stairs	Y
7432	Q	V	L	64	2	LO PUMP	DISCHARGE	???? LINE	2ND LEVEL-just S of stairs	Y
7433	Q	V O/E	L	64	2	LO PUMP	DISCHARGE	DISCONNECTED LINE (used to lead back to pumps)	2ND LEVEL-just S of stairs	Y
7435	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE BLOCKING	2ND LEVEL	Y
7436	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE CONTROL VALVE	2ND LEVEL	Y
7437	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE PRESSURE TAP	2ND LEVEL	Y
7438	A,V,O	C	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE PRESSURE GAUGE	2ND LEVEL	Y
7456	Q	V	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7457	Q	V	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7458	Q	V	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7459	Q	V	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7465	Q	CV	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7466	Q	CV	L	64	2	LO PUMP	DISCHARGE	OUT OF SERVICE LINE	2ND LEVEL	Y
7440	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE BLOCKING	2ND LEVEL	Y
7441	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE LINE BLOCKING	2ND LEVEL OUT	Y
7442	Q	V	L	64	2	LO PUMP	DISCHARGE	MAIN 2nd LEVEL DISCHARGE BYPASS LINE	2ND LEVEL	Y
7460	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD MAIN BLOCKING VALVE	2ND LEVEL QUADS	Y
7461	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD (LINE #1) BLOCKING VALVE	2ND LEVEL QUADS	Y
7463	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD(LINE #2)PRV BLOCKING VALVE	QUAD/DECANT PRV	Y
7464	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD(LINE #2) BLOCKING VALVE	2ND LEVEL QUADS	Y
7480	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV (RETURNED TO DECANTER TOPS)	2ND LEVEL DECANT	Y
7479	A,V,O	C	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV PRESSURE GAUGE	2ND LEVEL DECANT	Y
7478	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV PRESSURE TAP VALVE	2ND LEVEL DECANT	Y
7477	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV 3-WAY VALVE	2ND LEVEL DECANT	Y
7476	A,V,O	C	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV PRESSURE GAUGE	2ND LEVEL DECANT	Y
7475	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV PRESSURE TAP VALVE	2ND LEVEL DECANT	N

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TABLE 64 (continued)

7474	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV BYPASS LINE VALVE	2ND LEVEL DECANT	Y
7473	Q	V O/E	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV DRAIN VALVE	2ND LEVEL DECANT	Y
7472	Q	V	L	64	2	LO PUMP	DISCHARGE	PRV BLOCKING VALVE TO DECANTER TOPS	2ND LEVEL DECANT	Y
7471	Q	PRV	L	64	2	LO PUMP	DISCHARGE	PRESSURE RELIEF VALVE TO DECANTER VENT LINES	2ND LEVEL DECANT	Y
7470	Q	V	L	64	2	LO PUMP	DISCHARGE	QUAD BYPASS TO PRV (UPPER BYPASS LINE VALVE)	2ND LEVEL DECANT	Y
7451	Q	V	L	64	2	LO PUMP	DISCHARGE	DECANTER RETURN LINE	2ND LEVEL RETURN	Y
7452	Q	V	L	64	2	LO PUMP	DISCHARGE	DECANTER RETURN LINE (7' IN THE AIR)	2ND LEVEL 7' UP	Y
7453	A	V	L	64	2	LO PUMP	DISCHARGE	DECANTER RETURN LINE (8' IN THE AIR)	2ND LEVEL 8' UP	N
7454	Q	V O/E	L	64	2	LO PUMP	DISCHARGE	DECANTER RETURN LINE CLEANOUT VALVE	2ND LEVEL RETURN	Y
7481	Q	V	L	64	2	LO PUMP	DISCHARGE	RETURN TO CONTROL ROOM #1 LINE BLOCKING VALVE	2ND LEVEL CR#1 LINE	Y
7482	Q	V	L	64	2	LO PUMP	DISCHARGE	RETURN TO CONTROL ROOM #1 1st VENT VALVE O/E	2ND LEVEL CR#1 LINE	Y
7483	Q	V	L	64	2	LO PUMP	DISCHARGE	RETURN TO CONTROL ROOM #1 LINE BLOCKING VALVE	2ND LEVEL CR#1 LINE	Y
7484	Q	V	L	64	2	LO PUMP	DISCHARGE	RETURN TO CONTROL ROOM #1 2nd VENT VALVE O/E	2ND LEVEL CR#1 LINE	Y
7445	Q	V	L	64	2	LO PUMP	DISCHARGE	LO STORAGE LINE (b/w E-630 & E-632)	2ND LEVEL (leads to Fig. 6!	Y
7450	Q	V O/E	L	64	2	LO PUMP	DISCHARGE	LO STORAGE LINE CLEANOUT(b/w E-630 & E-632)	2ND LEVEL (leads to Fig. 6!	Y
	A,V,Q	C(x4)	L	64	2	LO PUMP	DISCHARGE	MISCELLANEOUS UNMARKED FLANGES AND CONNECTORS	2ND LEVEL	Y

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TABLE 65
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
KOPPERS TRANSFER LINE AREAS

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room		
0651		**METHANOL TRANSFER**					
7500	A	V	L	65	2	BLOWDOWN	B-426
7509	A	V	L	65	2	LO TRANSFER	D-604/605
7510	A	V	L	65	2	LO TRANSFER	D-604/605
7501	Q	V	L	65	2	BLOWDOWN	B-426
7502	Q	V	L	65	2	BLOWDOWN	B-426
7503	Q	V	L	65	2	BLOWDOWN	B-426
7504	Q	V	L	65	2	BLOWDOWN	B-426
7514	Q	V	L	65	2	BLOWDOWN	B-426
7569	Q	V	L	65	2	BLOWDOWN	B-426
7482	Q	V	L	65	2	BLOWDOWN	B-426
7557	A	V	L	65	2	BLOWDOWN	B-426
7483	Q	V	L	65	2	BLOWDOWN	B-426
7484	Q	V O/E	L	65	2	BLOWDOWN	B-426
7485	Q	V O/E	L	65	2	BLOWDOWN	B-426
7558	Q	V O/E	L	65	2	BLOWDOWN	B-426
7511	Q	V	L	65	2	BLOWDOWN	B-426
7512	Q	V O/E	L	65	2	BLOWDOWN	B-426
7513	Q	V	L	65	2	BLOWDOWN	B-426
	UTM	C(x10)	L	65	2	BLOWDOWN	B-426
	A,V,O	C(x2)	L	65	2	BLOWDOWN	B-426
0652		**LO STORAGE TRANSFER**					
7520	UTM	V	L	65	2	LO STORE	TRANSFER
7521	UTM	V	L	65	2	LO STORE	TRANSFER
7522	UTM	V	L	65	2	LO STORE	TRANSFER
7523	UTM	V	L	65	2	LO STORE	TRANSFER
0653		**LO HEATER #1**					
7540	UTM	V	L	65	2	LO HEATER	TRANSFER
7541	UTM	V	L	65	2	LO HEATER	TRANSFER
7542	UTM	V	L	65	2	LO HEATER	TRANSFER
7543	UTM	V O/E	L	65	2	LO HEATER	TRANSFER
7544	UTM	V	L	65	2	LO HEATER	TRANSFER
7545	UTM	V	L	65	2	LO HEATER	TRANSFER
0654		**LO HEATER #2**					
7560	Q	V O/E	L	65	2	LO HEATER	TRANSFER
7561	Q	V	L	65	2	LO HEATER	TRANSFER
7562	A,V,O	C	L	65	2	LO HEATER	TRANSFER
7564	Q	V	L	65	2	LO HEATER	TRANSFER
7563	A,V,O	C	L	65	2	LO HEATER	TRANSFER
7565	Q	V	L	65	2	LO HEATER	TRANSFER
7566	Q	V	L	65	2	LO HEATER	TRANSFER
7568	Q	V	L	65	2	LO HEATER	TRANSFER
0655		**LO HEATER #3**					
7580	A,V,O	C	L	65	2	LO HEATER	TRANSFER
7589	Q	V	L	65	2	LO HEATER	TRANSFER
7581	Q	V	L	65	2	LO HEATER	TRANSFER
7582	Q	V	L	65	2	LO HEATER	TRANSFER
7583	Q	V	L	65	2	LO HEATER	TRANSFER
7584	Q	V	L	65	2	LO HEATER	TRANSFER
7585	Q	PRV	L	65	2	LO HEATER	TRANSFER
7586	Q	V O/E	L	65	2	LO HEATER	TRANSFER
7587	Q	V	L	65	2	LO HEATER	TRANSFER
7588	Q	V O/E	L	65	2	LO HEATER	TRANSFER

BLOCKING VALVE LO/METHANOL TRANSFER LINE	15' ABOVE GROUND	DTM
OLD L.O. STORAGE LINE MAIN BLOCKING VALVE (southwest of stairs)	20' ABOVE GROUND	DTM
NEW L.O. STORAGE LINE MAIN BLOCKING VALVE (southwest of stairs)	20' ABOVE GROUND	DTM
CLEANOUT VALVE METHANOL TRANSFER LINE	GRND BY R-490	Y
BLOCKING VALVE (V-11) LO/METHANOL TRANSFER LINE	GRND BY R-490	Y
BLOCKING VALVE (V-16) TO/FROM BLOWDOWN TANK	GRND BY R-490	Y
BLOCKING VALVE (V-10) METHANOL TRANSFER LINE	GRND BY R-490	Y
LO/METHANOL TRANSFER CLEANOUT LINE	GRND BY R-490	Y
LO/METHANOL TRANSFER CLEANOUT LINE	GRND BY R-490	Y
LO/METHANOL TRANSFER CLEANOUT LINE	GRND BY R-490	Y
CONTROL ROOM 5 BLOCKING VALVE	15' ABOVE GROUND	DTM
CONTROL ROOM 5 CLEANOUT LINE	GRND BY R-490	Y
CONTROL ROOM 5 CLEANOUT LINE	GRND BY R-490	Y
CONTROL ROOM 5 CLEANOUT LINE	GRND BY R-490	Y
CONTROL ROOM 5 CLEANOUT LINE	GRND BY R-490	Y
LO/METHANOL TRANSFER CLEANOUT LINE	GRND BY R-490	Y
LO/METHANOL TRANSFER CLEANOUT LINE	GRND BY R-490	Y
LO/METHANOL NITROGEN CLEANOUT LINE	GRND BY R-490	Y
OVERHEAD (UTM) METHANOL TRANSFER LINE	OVERHEAD LINE	UTM
BLOCKING VALVE MANIFOLD FLANGE	GRND BY R-490	Y
BLOCKING VALVES LO STORAGE TANKS	RACK RW TANK	UTM
BLOCKING VALVES LO STORAGE TANKS	RACK RW TANK	UTM
BLOCKING VALVES LO STORAGE TANKS	RACK RW TANK	UTM
BLOCKING VALVES LO STORAGE TANKS	RACK RW TANK	UTM
LO TRANSFER HEATER 1 BLOCKING VALVE	RACK E OF BND	UTM
LINE VALVE LO TRANSFER HEATER 1	RACK E OF BND	UTM
LO TRANSFER HEATER 1 CLEANOUT VALVE	RACK E OF BND	UTM
LO TRANSFER HEATER 1 CLEANOUT VALVE	RACK E OF BND	UTM
LINE VALVE LO TRANSFER HEATER 1	RACK E OF BND	UTM
LO TRANSFER HEATER 1 BLOCKING VALVE	RACK E OF BND	UTM
LO TRANSFER HEATER 2 LINE CLEANOUT VALVE	RACK SW OFFC	Y
LO TRANSFER HEATER 2 BLOCKING VALVE	RACK SW OFFC	Y
LO TRANSFER HEATER 2 GAUGE	RACK SW OFFC	Y
LO TRANSFER HEATER 2 VALVE	RACK SW OFFC	Y
LO TRANSFER HEATER 2 GAUGE	RACK SW OFFC	Y
LINE VALVE LO TRANSFER HEATER 2	RACK SW OFFC	Y
LO TRANSFER HEATER 2 VALVE	RACK SW OFFC	Y
LO TRANSFER HEATER 2 STEAM VALVE	RACK SW OFFC	Y
PRESSURE GAUGE LO TRANSFER HEATER 3	NEAR KOPPERS	Y
GAUGE VALVE LO TRANSFER HEATER 3	NEAR KOPPERS	Y
LO TRANSFER HEATER 3 BLOCKING VALVE	NEAR KOPPERS	Y
LINE VALVE LO TRANSFER HEATER 3	NEAR KOPPERS	Y
RELIEF BYPASS LO TRANSFER HEATER 3	NEAR KOPPERS	Y
BLOCKING VALVE TO RELIEF LO HEATER 3	NEAR KOPPERS	Y
RELIEF VALVE LO TRANSFER HEATER 3	NEAR KOPPERS	Y
LO TRANSFER HEATER 3 VALVE	NEAR KOPPERS	Y
CLEANOUT VALVE LO TRANSFER HEATER 3	NEAR KOPPERS	Y
CLEANOUT VALVE LO TRANSFER HEATER 3	NEAR KOPPERS	Y

TABLE 66
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH HEAT EXCHANGER

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
8661		LO HEAT EXCHANGE AREA							
8000	Q	V O/E	L	66	2	COOLER	E-424	LO WASH COOLING LOOP CLEANOUT VALVE	HT EXC AREA	Y
8001	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP PRESSURE TAP VALVE	HT EXC AREA	Y
8002	Q	V O/E	L	66	2	COOLER	E-424	LO WASH COOLING LOOP PRESSURE TAP CLEANOUT	HT EXC AREA	Y
8003	A,V,O	C	L	66	2	COOLER	E-424	LO WASH COOLING LOOP PRESSURE GAUGE	HT EXC AREA	Y
8004	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP DRAIN VALVE	HT EXC AREA	Y
8005	Q	CV	L	66	2	COOLER	E-424	LO WASH COOLING LOOP DRAIN CHECK VALVE	HT EXC AREA	Y
8006	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP DRAIN CLEANOUT VALVE	HT EXC AREA	Y
8007	Q	V O/E	L	66	2	COOLER	E-424	LO WASH COOLING LOOP PRESSURE RELIEF VALVE	HT EXC AREA	Y
8009	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP BLOCKING VALVE	HT EXC AREA	Y
8010	Q	V	L	66	2	COOLER	E-424	LO WAS COOLING LOOP PRESSURE GAUGE VALVE	HT EXC AREA	Y
8011	A,V,O	C	L	66	2	COOLER	E-424	LO WAS COOLING LOOP PRESSURE GAUGE	HT EXC AREA	Y
8012	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP SUMP BLOCKING VALVE	HT EXC AREA	Y
8013	Q	V	L	66	2	COOLER	E-424	LO WASH COOLING LOOP PRESSURE TAP VALVE	HT EXC AREA	Y
8014	Q	V	L	66	2	COOLER	E-425	LO WASH COOLING LOOP PRESSURE TAP VALVE	HT EXC AREA	Y
8015	A,V,O	C	L	66	2	COOLER	E-426	LO WASH COOLING LOOP PRESSURE GAUGE	HT EXC AREA	Y
8228	Q	V O/E	L	66	2	COOLER	E-427	LO WASH COOLING LOOP CLEANOUT VALVE	HT EXC AREA	Y
	A,V,O	C(x4)	L	66	2	COOLER	E-424	MISCELLANEOUS UNMARKED FLANGES AND CONNECTORS	HT EXC AREA	Y

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TABLE 67
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH BLOWDOWN TANK AREA

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
8100	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING FOR RECIRC LINE	TANK AREA	Y
8101	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING FOR RECIRC LINE	TANK AREA	Y
8103	Q	V O/E	L	67	2	BLOWDOWN	B-426	CLEANOUT FOR RECIRCULATION LINE	TANK AREA	Y
8180	Q	V O/E	L	67	2	BLOWDOWN	B-426	CLEANOUT FOR RECIRCULATION LINE	TANK AREA	Y
8102	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING	TANK AREA	Y
8104	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING	TANK AREA	Y
8107	Q	V	L	67	2	BLOWDOWN	B-426	CLEANOUT	TANK AREA	Y
8105	Q	V	L	67	2	BLOWDOWN	B-426	CLEANOUT	TANK AREA	Y
8108	Q	V O/E	L	67	2	BLOWDOWN	B-426	LEVEL CONTROL VALVE	TANK AREA	Y
8109	Q	V	L	67	2	BLOWDOWN	B-426	SG/LC	TANK AREA	Y
8110	Q	V	L	67	2	BLOWDOWN	B-426	SIGHT GLASS DRAIN VALVE	TANK AREA	Y
8111	Q	V O/E	L	67	2	BLOWDOWN TANK	D-425	SIGHT GLASS DRAIN VALVE	TANK AREA	Y
8106	Q	V	L	67	2	BLOWDOWN	B-426	CLEANOUT	TANK AREA	Y
8112	Q	V	L	67	2	BLOWDOWN TANK	D-425	RECIRC LINE	TANK AREA	Y
8113	Q	V	L	67	2	BLOWDOWN TANK	D-425	SIGHT GLASS/LEVEL CONTROL CONNECTING LINE VALVE	TANK AREA	Y
8158	Q	V	L	67	2	BLOWDOWN TANK	D-425	STEAM MANIFOLD BLOCKING VALVE	TANK AREA	Y
8125	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO WASH RETURN BLOCKING VALVE	TANK AREA	Y
8126	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO RETURN CHECK VALVE	TANK AREA	Y
8178	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO WASH RETURN BLOCKING VALVE	TANK AREA	Y
8129	Q	V O/E	L	67	2	BLOWDOWN TANK	D-425	BACK LEVEL CONTROL DRAIN VALVE	TANK AREA	Y
8130	Q	V O/E	L	67	2	BLOWDOWN	B-426	BACK LEVEL CONTROL DRAIN CLEANOUT VALVE	TANK AREA	Y
8131	Q	V	L	67	2	BLOWDOWN TANK	D-425	BACK LEVEL CONTROL BOTTOM BLOCKING	TANK AREA	Y
8132	Q	V O/E	L	67	2	BLOWDOWN	B-426	BACKWASH TANK DRAIN CLEANOUT	TANK AREA	Y
8133	Q	V	L	67	2	BLOWDOWN	B-426	BACKWASH TANK DRAIN BLOCKING	TANK AREA	Y
8134	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING	TANK AREA	Y
8181	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING	TANK AREA	Y
8135	Q	V	L	67	2	BLOW DOWN	D-425	BLOWDOWN TANK DRAIN	TANK AREA	Y
8137	Q	V	L	67	2	BLOW DOWN	D-425	BLOW DOWN TANK DRAIN	TANK AREA	Y
8138	Q	V	L	67	2	BLOW DOWN	D-425	BLOW DOWN TANK DRAIN	TANK AREA	Y
8139	Q	V	L	67	2	BLOW DOWN	D-425	BLOWDOWN TANK DRAIN	TANK AREA	Y
8150	Q	V O/E	L	67	2	BLOWDOWN	B-426	LEVEL CONTROL TOP CLEANOUT	TOP OF TANK	Y
8151	Q	V	L	67	2	BLOWDOWN	B-426	SIGHT GLASS TOP CLEANOUT	TOP OF TANK	Y
8152	A,V,O	C(x2)	L	67	2	BLOWDOWN TANK	D-425	BLOW DOWN TANK SIGHT GLASS	TOP OF TANK	Y
8159	A,V,O	C(x2)	L	67	2	BLOWDOWN TANK	D-425	BLOW DOWN TANK LEVEL CONTROL	TOP OF TANK (Remove 8159)	Y
8189	Q	V O/E	L	67	2	BLOWDOWN	B-426	TANK BLEED	TOP OF TANK	Y
8153	Q	V	L	67	2	BLOWDOWN	B-426	TANK BLEED	TOP OF TANK	Y
8154	Q	V	L	67	2	BLOWDOWN	B-426	MAIN REGENERATOR DRAIN BLOCKING	TOP OF TANK	Y
8155	Q	V	L	67	2	BLOWDOWN	B-426	TO SIGHT GLASS	TOP OF TANK	Y
8156	Q	V	L	67	2	BLOWDOWN	B-426	TO LEVEL CONTROL	TOP OF TANK	Y
8157	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING TO RECIRCULATION	TOP OF TANK	Y
8175	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING TO UNDERFIRE	TOP OF TANK	Y
8176	Q	V	L	67	2	BLOWDOWN	B-426	THREE WAY VALVE	TOP OF TANK	Y
8177	Q	PRV O/E	L	67	2	BLOWDOWN	B-426	EMERGENCY VENT	TOP OF TANK	Y
8182	Q	V	L	67	2	BLOWDOWN	B-426	BLOCKING	TOP OF TANK	Y
8183	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO WASH CHECK VALVE	TOP OF TANK	Y
8184	Q	PRV	L	67	2	BLOWDOWN	B-426	EMERGENCY VENT	TOP OF TANK	Y
8179	Q	V O/E	L	67	2	BLOWDOWN	B-426	EMERGENCY VENT DRAIN VALVE	TOP OF TANK	Y
8185	Q	V	L	67	2	BLOWDOWN	B-426	MAIN REGENERATOR RETURN BLOCKING	TOP OF TANK	Y
8186	Q	V	L	67	2	BLOWDOWN	B-426	MAIN REGENERATOR RETURN CHECK	TOP OF TANK	Y
8187	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO WASH VALVE OLD LPD OUT OF SERVICE	TOP OF TANK	Y
8188	Q	V	L	67	2	BLOWDOWN TANK	D-425	LO WASH VALVE OLD LPD FLOW CONTROLLER	TOP OF TANK	Y
	A,V,O	C(x8)	L	67	2	BLOWDOWN TANK	D-425	MISCELLANEOUS FLANGES (UNMARKED)	TANK AREA	Y

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TABLE 68
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH BLOWDOWN PUMPS

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
8201	Q	V	L	68	2	BLOWDOWN	P-425	BLOCKING	PUMP AREA	Y
8202	Q	V O/E	L	68	2	BLOWDOWN	P-425	CLEANOUT	PUMP AREA	Y
8203	M	P	L	68	2	BLOWDOWN	P-425	LO TRANSFER PUMP SEAL	PUMP AREA	Y
8204	Q	V	L	68	2	BLOWDOWN	LOADING	BLOCKING VALVE TO L.O. MANIFOLD	PUMP AREA	Y
8205	Q	V	L	68	2	BLOWDOWN	QUADS	BLOCKING VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8206	Q	V	L	68	2	BLOWDOWN	P-425	PUMP 425 DISCHARGE CHECK VALVE	PUMP AREA	Y
8207	Q	V	L	68	2	BLOWDOWN	P-425	PUMP 425 DISCHARGE BLOCKING VALVE	PUMP AREA	Y
8208	Q	V	L	68	2	BLOWDOWN	P-425	PUMP 425 DISCHARGE BLOCKING VALVE	PUMP AREA	Y
8209	Q	V	L	68	2	BLOWDOWN	QUADS	BLOCKING VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8214	Q	V	L	68	2	BLOWDOWN TANK	QUADS	BLOCKING VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8216	Q	V	L	68	2	BLOWDOWN TANK	P-426	BLOCKING	PUMP AREA	Y
8215	Q	V O/E	L	68	2	BLOWDOWN TANK	P-426	CLEANOUT	PUMP AREA	Y
8229	Q	V	L	68	2	BLOWDOWN TANK	P-426	BLOCKING	PUMP AREA	Y
8217	Q	V O/E	L	68	2	BLOWDOWN	P-426	CLEANOUT	PUMP AREA	Y
8218	Q	V	L	68	2	BLOWDOWN	QUADS	BLOCKING VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8219	M	P	L	68	2	BLOWDOWN	P-426	LO TRANSFER PUMP SEAL	PUMP AREA	Y
8220	Q	V	L	68	2	BLOWDOWN	P-426	PUMP 426 DISCHARGE CHECK VALVE	PUMP AREA	Y
8221	Q	V	L	68	2	BLOWDOWN	P-426	PUMP 426 DISCHARGE BLOCKING VALVE	PUMP AREA	Y
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8223	Q	V	L	68	2	BLOWDOWN	QUADS	BLOCKING VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8210	Q	V O/E	L	68	2	BLOWDOWN	QUADS	CLEANOUT VALVE TO QUAD WASH ACETONE MANIFOLDS	PUMP AREA	Y
8224	Q	V	L	68	2	BLOWDOWN	REGEN	REGEN WASH BLOCKING	PUMP AREA	Y
8225	Q	V	L	68	2	BLOWDOWN	REGEN	REGEN WASH BLOCKING	PUMP AREA	Y
8226	Q	V	L	68	2	BLOWDOWN	REGEN	REGEN WASH BLOCKING	PUMP AREA	Y
8227	Q	V O/E	L	68	2	BLOWDOWN	REGEN	REGEN WASH CLEANOUT	PUMP AREA	Y
	A,V,O	C(x4)	L	68	2	BLOWDOWN	GENERAL	MISCELLANEOUS UNMARKED FLANGES AND CONNECTORS	PUMP AREA	Y

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TABLE 69
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 1

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0691		ACETONE MANIFOLD							
8250	WASH	V	L	69	2	SUB GAS	QUAD 1	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8251	WASH	V	L	69	2	SUB GAS	QUAD 1	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8252	WASH	V O/E	L	69	2	SUB GAS	QUAD 1	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8253	WASH	V	L	69	2	SUB GAS	QUAD 1	ACETONE MANIFOLD SUB NITROGEN	PLATFORM	Y
8254	WASH	V	L	69	2	UF GAS	QUAD 1	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8255	WASH	V	L	69	2	UF GAS	QUAD 1	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8256	WASH	V O/E	L	69	2	UF GAS	QUAD 1	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8257	WASH	V	L	69	2	UF GAS	QUAD 1	ACETONE MANIFOLD UF NITROGEN	PLATFORM	Y
8258	WASH	V	L	69	2	DR GAS	QUAD 1	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8259	WASH	V	L	69	2	DR GAS	QUAD 1	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8260	WASH	V O/E	L	69	2	DR GAS	QUAD 1	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8261	WASH	V	L	69	2	MAIN QUAD	QUAD 1	ACETONE MANIFOLD DR NITROGEN	PLATFORM	Y
8262	WASH	V	L	69	2	MAIN QUAD	QUAD 1	ACETONE MANIFOLD NITROGEN PURGE	PLATFORM	Y
0692		DRAIN MANIFOLD							
8270	WASH	V	L	69	2	MAIN QUAD	QUAD 1	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8271	WASH	V	L	69	2	MAIN QUAD	QUAD 1	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8272	WASH	V	L	69	2	MAIN QUAD	QUAD 1	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8273	WASH	V	L	69	2	MAIN QUAD	QUAD 1	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8274	WASH	V	L	69	2	MAIN QUAD	QUAD 1	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8275	WASH	V	L	69	2	MAIN QUAD	QUAD 1	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8276	WASH	V	L	69	2	MAIN QUAD	QUAD 1	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8277	WASH	V	L	69	2	MAIN QUAD	QUAD 1	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8278	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1	LOW POINT DRAIN MANIFOLD CLEANOUT	PASSAGEWAY	Y
8269	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8279	WASH	V	L	69	2	MAIN QUAD	QUAD 1	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
0693		PRESSURE TAP							
8263	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8264	WASH	V	L	69	2	MAIN QUAD	QUAD 1D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	Y
8265	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8266	DTM-WASH	V	L	69	2	MAIN QUAD	QUAD 1C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8267	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8268	DTM-WASH	V	L	69	2	MAIN QUAD	QUAD 1B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
1903	WASH	V O/E	L	69	2	MAIN QUAD	QUAD 1A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
7228	DTM-WASH	V	L	69	2	MAIN QUAD	QUAD 1A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
	A,V,O	C(x3)	L	69	2	MAIN QUAD	QUAD 1	UNIDENTIFIED FLANGES	PASSAGEWAY	Y

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TABLE 70
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 2

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0701		ACETONE MANIFOLD							
8301	WASH	V	L	70	2	SUB GAS	QUAD 2	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8302	WASH	V	L	70	2	SUB GAS	QUAD 2	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8303	WASH	V O/E	L	70	2	SUB GAS	QUAD 2	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8304	WASH	V	L	70	2	SUB GAS	QUAD 2	ACETONE MANIFOLD SUB NITROGEN	PLATFORM	Y
8305	WASH	V	L	70	2	UF GAS	QUAD 2	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8306	WASH	V	L	70	2	UF GAS	QUAD 2	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8307	A,V,D	C	L	70	2	UF GAS	QUAD 2	ACETONE MANIFOLD UF CLEANOUT PRESSURE GUAGE	PLATFORM	Y
8312	WASH	V O/E	L	70	2	UF GAS	QUAD 2	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8308	WASH	V	L	70	2	UF GAS	QUAD 2	ACETONE MANIFOLD UF NITROGEN	PLATFORM	Y
8310	WASH	V	L	70	2	DR GAS	QUAD 2	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8311	WASH	V	L	70	2	DR GAS	QUAD 2	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8309	WASH	V	L	70	2	MAIN QUAD	QUAD 2	ACETONE MANIFOLD DR NITROGEN	PLATFORM	Y
8300	WASH	V	L	70	2	MAIN QUAD	QUAD 2	ACETONE MANIFOLD NITROGEN PURGE	PLATFORM	Y
0702		DRAIN MANIFOLD							
8330	WASH	V	L	70	2	MAIN QUAD	QUAD 2	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8331	WASH	V	L	70	2	MAIN QUAD	QUAD 2	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8332	WASH	V	L	70	2	MAIN QUAD	QUAD 2	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8333	WASH	V	L	70	2	MAIN QUAD	QUAD 2	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8335	WASH	V	L	70	2	MAIN QUAD	QUAD 2	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8336	WASH	V	L	70	2	MAIN QUAD	QUAD 2	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8337	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8340	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8339	WASH	V	L	70	2	MAIN QUAD	QUAD 2	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
0703		PRESSURE TAP							
8320	DTM-WASH	V	L	70	2	MAIN QUAD	QUAD 2D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8321	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8322	DTM-WASH	V	L	70	2	MAIN QUAD	QUAD 2C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8323	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8324	DTM-WASH	V	L	70	2	MAIN QUAD	QUAD 2B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8325	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8326	DTM-WASH	V	L	70	2	MAIN QUAD	QUAD 2A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8327	WASH	V O/E	L	70	2	MAIN QUAD	QUAD 2A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y

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TABLE 71
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 3

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
9711		ACETONE MANIFOLD							
8353	WASH	V	L	71	2	SUB GAS	QUAD 3	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8358	WASH	V	L	71	2	SUB GAS	QUAD 3	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8356	WASH	V O/E	L	71	2	SUB GAS	QUAD 3	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8357	WASH	V	L	71	2	SUB GAS	QUAD 3	ACETONE MANIFOLD SUB NITROGEN	PLATFORM	Y
8353	WASH	V	L	71	2	UF GAS	QUAD 3	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8354	WASH	V	L	71	2	UF GAS	QUAD 3	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8350	WASH	V O/E	L	71	2	UF GAS	QUAD 3	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8351	WASH	V	L	71	2	DR GAS	QUAD 3	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8352	WASH	V	L	71	2	DR GAS	QUAD 3	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
9712		DRAIN MANIFOLD							
8378	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8379	WASH	V	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8380	WASH	V	L	71	2	MAIN QUAD	QUAD 3	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8381	WASH	V	L	71	2	MAIN QUAD	QUAD 3	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8382	WASH	V	L	71	2	MAIN QUAD	QUAD 3	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8383	WASH	V	L	71	2	MAIN QUAD	QUAD 3	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8384	WASH	V	L	71	2	MAIN QUAD	QUAD 3	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8385	WASH	V	L	71	2	MAIN QUAD	QUAD 3	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8386	WASH	V	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8359	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8387	WASH	V	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8388	WASH	V	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8389	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
9713		PRESSURE TAP							
8370	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8371	DTM-WASH	V	L	71	2	MAIN QUAD	QUAD 3A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8372	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8373	DTM-WASH	V	L	71	2	MAIN QUAD	QUAD 3B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8374	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8375	DTM-WASH	V	L	71	2	MAIN QUAD	QUAD 3C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8376	WASH	V O/E	L	71	2	MAIN QUAD	QUAD 3D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8377	DTM-WASH	V	L	71	2	MAIN QUAD	QUAD 3D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM

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TABLE 72
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 4

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0721		ACETONE MANIFOLD							
8400	WASH	V	L	72	2	SUB GAS	QUAD 4	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8401	WASH	V	L	72	2	SUB GAS	QUAD 4	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8407	WASH	V	L	72	2	UF GAS	QUAD 4	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8408	WASH	V	L	72	2	UF GAS	QUAD 4	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8406	WASH	V O/E	L	72	2	UF GAS	QUAD 4	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8409	WASH	V	L	72	2	DR GAS	QUAD 4	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8412	WASH	V	L	72	2	DR GAS	QUAD 4	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8410	WASH	V	L	72	2	MAIN QUAD	QUAD 4	ACETONE MANIFOLD DR NITROGEN	PLATFORM	Y
8411	WASH	V	L	72	2	MAIN QUAD	QUAD 4	ACETONE MANIFOLD (DISCONNECTED) NITROGEN PURGE	PLATFORM	Y
0722		DRAIN MANIFOLD							
8430	WASH	V	L	72	2	MAIN QUAD	QUAD 4	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8431	WASH	V	L	72	2	MAIN QUAD	QUAD 4	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8432	WASH	V	L	72	2	MAIN QUAD	QUAD 4	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8433	WASH	V	L	72	2	MAIN QUAD	QUAD 4	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8434	WASH	V	L	72	2	MAIN QUAD	QUAD 4	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8435	WASH	V	L	72	2	MAIN QUAD	QUAD 4	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8437	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8438	WASH	V	L	72	2	MAIN QUAD	QUAD 4	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8440	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8439	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
0723		PRESSURE TAP							
8420	DTM-WASH	V	L	72	2	MAIN QUAD	QUAD 4D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8421	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8422	DTM-WASH	V	L	72	2	MAIN QUAD	QUAD 4C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8423	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8424	DTM-WASH	V	L	72	2	MAIN QUAD	QUAD 4B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8425	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8426	DTM-WASH	V	L	72	2	MAIN QUAD	QUAD 4A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8427	WASH	V O/E	L	72	2	MAIN QUAD	QUAD 4A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
	A,V,O	C(x2)	L	72	2	MAIN QUAD	QUAD 4	UNIDENTIFIED FLANGES	PASSAGEWAY	Y

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TABLE 73
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 5

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0731		ACETONE MANIFOLD							
8480	WASH	V	L	73	2	MAIN QUAD	QUAD 5	ACETONE MANIFOLD MAIN N2 BLOCKING VALVE	PLATFORM	Y
8481	WASH	V	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8482	WASH	V	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD SUB NITROGEN	PLATFORM	Y
8483	WASH	V O/E	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8484	WASH	V	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8485	WASH	V	L	73	2	UF GAS	QUAD 5	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8486	WASH	V	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD UF NITROGEN	PLATFORM	Y
8492	WASH	V O/E	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8487	WASH	V	L	73	2	UF GAS	QUAD 5	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8488	WASH	V	L	73	2	DR GAS	QUAD 5	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8489	WASH	V	L	73	2	SUB GAS	QUAD 5	ACETONE MANIFOLD DR NITROGEN	PLATFORM	Y
8490	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8491	WASH	V	L	73	2	DR GAS	QUAD 5	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
0732		DRAIN MANIFOLD							
8450	WASH	V	L	73	2	MAIN QUAD	QUAD 5	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8451	WASH	V	L	73	2	MAIN QUAD	QUAD 5	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8454	WASH	V	L	73	2	MAIN QUAD	QUAD 5	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8455	WASH	V	L	73	2	MAIN QUAD	QUAD 5	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8456	WASH	V	L	73	2	MAIN QUAD	QUAD 5	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8457	WASH	V	L	73	2	MAIN QUAD	QUAD 5	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8459	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5	LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8452	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8453	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8460	WASH	V	L	73	2	MAIN QUAD	QUAD 5	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8461	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
	A.V.O	C	L	73	2	MAIN QUAD	QUAD 5	UNIDENTIFIED FLANGES	PASSAGEWAY	Y
0733		PRESSURE TAP							
8465	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8466	DTM-WASH	V	L	73	2	MAIN QUAD	QUAD 5A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8467	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8468	DTM-WASH	V	L	73	2	MAIN QUAD	QUAD 5B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8469	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8470	DTM-WASH	V	L	73	2	MAIN QUAD	QUAD 5C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8471	WASH	V O/E	L	73	2	MAIN QUAD	QUAD 5D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8472	DTM-WASH	V	L	73	2	MAIN QUAD	QUAD 5D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM

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TABLE 74
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 6

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
0741		ACETONE MANIFOLD							
8530	WASH	V	L	74	2	MAIN QUAD	QUAD 6	ACETONE MANIFOLD MAIN N2 BLOCKING VALVE	PLATFORM	Y
8531	WASH	V	L	74	2	DR GAS	QUAD 6	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8532	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8533	WASH	V	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD DR NITROGEN	PLATFORM	Y
8534	WASH	V	L	74	2	DR GAS	QUAD 6	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8535	WASH	V	L	74	2	UF GAS	QUAD 6	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8536	WASH	V O/E	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8537	WASH	V	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD UF NITROGEN	PLATFORM	Y
8538	WASH	V	L	74	2	UF GAS	QUAD 6	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8514	WASH	V	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8540	WASH	V O/E	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8541	WASH	V	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD SUB NITROGEN	PLATFORM	Y
8542	WASH	V	L	74	2	SUB GAS	QUAD 6	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8524	WASH	V	L	74	2	DR GAS	QUAD 6	ACETONE MANIFOLD M.R. LINE	PLATFORM	Y
8525	WASH	V	L	74	2	DR GAS	QUAD 6	ACETONE MANIFOLD M.R. LINE	PLATFORM	Y
0742		DRAIN MANIFOLD							
8500	WASH	V	L	74	2	MAIN QUAD	QUAD 6	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8501	WASH	V	L	74	2	MAIN QUAD	QUAD 6	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8502	WASH	V	L	74	2	MAIN QUAD	QUAD 6	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8503	WASH	V	L	74	2	MAIN QUAD	QUAD 6	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8504	WASH	V	L	74	2	MAIN QUAD	QUAD 6	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8505	WASH	V	L	74	2	MAIN QUAD	QUAD 6	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8506	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6	LOW POINT DRAIN M.R. MANIFOLD BLOCKING	PASSAGEWAY	Y
8507	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6	LOW POINT DRAIN M.R. MANIFOLD BLOCKING	PASSAGEWAY	Y
8508	WASH	V	L	74	2	MAIN QUAD	QUAD 6	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
	WASH	C(x2)	L	74	2	MAIN QUAD	QUAD 6	UNIDENTIFIED FLANGES	PASSAGEWAY	Y
0743		PRESSURE TAP							
8521	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8522	DTM-WASH	V	L	74	2	MAIN QUAD	QUAD 6A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8519	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8520	DTM-WASH	V	L	74	2	MAIN QUAD	QUAD 6B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8517	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8518	DTM-WASH	V	L	74	2	MAIN QUAD	QUAD 6C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8515	WASH	V O/E	L	74	2	MAIN QUAD	QUAD 6D	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8516	DTM-WASH	V	L	74	2	MAIN QUAD	QUAD 6D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM

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TABLE 75
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH, MAIN QUAD NO. 7

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room			
0751		ACETONE MANIFOLD						
8580	WASH	V	L	75	2	MAIN QUAD	QUAD 7	ACETONE MANIFOLD MAIN N2 BLOCKING VALVE	PLATFORM	Y
8581	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8582	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB GAS BLOCKING	PLATFORM	Y
8583	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8584	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8585	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8586	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD SUB CLEANOUT	PLATFORM	Y
8587	WASH	V	L	75	2	UF GAS	QUAD 7	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8588	WASH	V	L	75	2	UF GAS	QUAD 7	ACETONE MANIFOLD UF BLOCKING	PLATFORM	Y
8589	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8590	WASH	V O/E	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8591	WASH	V	L	75	2	SUB GAS	QUAD 7	ACETONE MANIFOLD UF CLEANOUT	PLATFORM	Y
8592	WASH	V	L	75	2	DR GAS	QUAD 7	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8593	WASH	V	L	75	2	DR GAS	QUAD 7	ACETONE MANIFOLD DR BLOCKING	PLATFORM	Y
8594	WASH	V	L	75	2	MAIN QUAD	QUAD 7	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8595	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8596	WASH	V	L	75	2	MAIN QUAD	QUAD 7	ACETONE MANIFOLD DR CLEANOUT	PLATFORM	Y
8571	WASH	V	L	75	2	SUB GAS	QUAD 7	RETURN M.R. LOW POINT DRAIN	PLATFORM	Y
8573	WASH	V	L	75	2	SUB GAS	QUAD 7	IN M.R. LOW POINT DRAIN	PLATFORM	Y
0752		DRAIN MANIFOLD						
8550	WASH	V	L	75	2	MAIN QUAD	QUAD 7	DR LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8552	WASH	V	L	75	2	MAIN QUAD	QUAD 7	UF LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8556	WASH	V	L	75	2	MAIN QUAD	QUAD 7	SUB LOW POINT DRAIN MANIFOLD BLOCKING	PASSAGEWAY	Y
8551	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD BLOCKING (OLD MR LINE)	PASSAGEWAY	Y
8921	WASH	V	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD BLOCKING (OLD MR LINE)	PASSAGEWAY	Y
8922	A,V,O	C	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8553	WASH	V	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8555	WASH	V	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8557	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8554	WASH	V	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8564	WASH	V	L	75	2	MAIN QUAD	QUAD 7	LOW POINT DRAIN MANIFOLD DISCHARGE	PASSAGEWAY	Y
8574	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7	UNIDENTIFIED FLANGES	PASSAGEWAY	Y
	A,V,O	C	L	75	2	MAIN QUAD	QUAD 7			
0753		PRESSURE TAP						
8565	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7A	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8566	WASH	V	L	75	2	MAIN QUAD	QUAD 7A	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	Y
8567	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7B	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8568	DTM-WASH	V	L	75	2	MAIN QUAD	QUAD 7B	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8569	WASH	V O/E	L	75	2	MAIN QUAD	QUAD 7C	DIFFERENTIAL PRESSURE TAP CLEANOUT	PASSAGEWAY	Y
8570	DTM-WASH	V	L	75	2	MAIN QUAD	QUAD 7C	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM
8572	DTM-WASH	V	L	75	2	MAIN QUAD	QUAD 7D	DIFFERENTIAL PRESSURE TAP	PASSAGEWAY	DTM

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TABLE 76
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH AND BALANCING GAS AREAS, MAIN QUADS NO. 1 AND 2

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
8761		QUAD #1 AREA							
8600	Q	V	G	76	2	MAIN QUAD	R-401A	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8601	Q	V O/E	G	76	2	MAIN QUAD	R-401A	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8602	Q	V	G	76	2	MAIN QUAD	R-401B	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8603	Q	V O/E	G	76	2	MAIN QUAD	R-401B	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8604	Q	V	G	76	2	MAIN QUAD	R-401C	BENZENE OVER FLOW BLOCKING	OVER WALKWAY	Y
8605	Q	V O/E	G	76	2	MAIN QUAD	R-401C	BENZENE OVER FLOW CLEANOUT	OVER WALKWAY	Y
8606	Q	V	G	76	2	MAIN QUAD	R-401D	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8607	Q	V O/E	G	76	2	MAIN QUAD	R-401D	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8615	Q	V O/E	G	76	2	MAIN QUAD	R-401A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8616	Q	V	G	76	2	MAIN QUAD	R-401A	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8617	Q	V O/E	G	76	2	MAIN QUAD	R-401A	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8618	Q	V	G	76	2	MAIN QUAD	R-401B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8619	Q	V	G	76	2	MAIN QUAD	R-401B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8620	Q	V O/E	G	76	2	MAIN QUAD	R-401B	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8621	Q	V	G	76	2	MAIN QUAD	R-401C	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8622	Q	V O/E	G	76	2	MAIN QUAD	R-401C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8623	Q	V	G	76	2	MAIN QUAD	R-401C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8624	Q	V	G	76	2	MAIN QUAD	R-401D	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8625	Q	V	G	76	2	MAIN QUAD	R-401D	LIGHT OIL BALANCING GAS VALVE BLOCKING	WEST OF WALKWAY	Y
8626	Q	V O/E	G	76	2	MAIN QUAD	R-401D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	WEST OF WALKWAY	Y
8654	Q	V	G	76	2	MAIN QUAD	R-402D	LIGHT OIL BALANCING GAS VALVE BLOCKING	EAST OF WALKWAY	Y
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-401A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-401B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-401C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-401D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8762		QUAD #2 AREA							
8630	Q	V	G	76	2	MAIN QUAD	R-402A	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY (East)	Y
8631	Q	V O/E	G	76	2	MAIN QUAD	R-402A	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY (East)	Y
8632	Q	V	G	76	2	MAIN QUAD	R-402B	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY (East)	Y
8633	Q	V O/E	G	76	2	MAIN QUAD	R-402B	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY (East)	Y
8634	Q	V	G	76	2	MAIN QUAD	R-402C	BENZENE OVER FLOW BLOCKING	OVER WALKWAY (East)	Y
8635	Q	V O/E	G	76	2	MAIN QUAD	R-402C	BENZENE OVER FLOW CLEANOUT	OVER WALKWAY (East)	Y
8636	Q	V	G	76	2	MAIN QUAD	R-402D	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY (East)	Y
8637	Q	V O/E	G	76	2	MAIN QUAD	R-402D	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY (East)	Y
8645	Q	V O/E	G	76	2	MAIN QUAD	R-402A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	EAST OF WALKWAY	Y
8646	Q	V	G	76	2	MAIN QUAD	R-402A	LIGHT OIL BALANCING GAS VALVE BLOCKING	EAST OF WALKWAY	Y
8647	Q	V O/E	G	76	2	MAIN QUAD	R-402A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	EAST OF WALKWAY	Y
8648	Q	V O/E	G	76	2	MAIN QUAD	R-402B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	EAST OF WALKWAY	Y
8649	Q	V	G	76	2	MAIN QUAD	R-402B	LIGHT OIL BALANCING GAS VALVE BLOCKING	EAST OF WALKWAY	Y
8650	Q	V O/E	G	76	2	MAIN QUAD	R-402C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	EAST OF WALKWAY	Y
8651	Q	V	G	76	2	MAIN QUAD	R-402C	LIGHT OIL BALANCING GAS VALVE BLOCKING	EAST OF WALKWAY	Y
8652	Q	V O/E	G	76	2	MAIN QUAD	R-402D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	EAST OF WALKWAY	Y
8653	Q	V	G	76	2	MAIN QUAD	R-402D	LIGHT OIL BALANCING GAS VALVE BLOCKING	EAST OF WALKWAY	Y
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-402A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-402B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-402C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	76	2	MAIN QUAD	R-402D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8763		LIGHT OIL WASH/BALANCING GAS AREA							
8685	Q	V	L	76	2	MAIN QUAD	QUAD 1	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8686	Q	V	L	76	2	MAIN QUAD	QUAD 2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8681	Q	V	L	76	2	MAIN QUAD	QUAD 1	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8688	Q	V	L	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8682	Q	V	L	76	2	MAIN QUAD	QUAD 2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8660	Q	V	L	76	2	MAIN QUAD	QUAD 1	AUTOVALVE	BETWEEN WALKWAYS	Y
8684	Q	V	L	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8655	Q	V	L	76	2	MAIN QUAD	QUAD 2	AUTOVALVE	BETWEEN WALKWAYS	Y
8687	Q	V	L	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	WEST OF 2D, GRND. LVL	Y

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TABLE 76 (continued)

8664	Q	V	L	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8680	Q	V O/E	L	76	2	MAIN QUAD	QUAD 1/2	CLEANOUT VALVE	BETWEEN WALKWAYS	Y
8690	Q	V	L	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8673	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8656	Q	V O/E	GL	76	2	MAIN QUAD	QUAD 2	CLEANOUT VALVE	BETWEEN WALKWAYS	Y
8657	Q	V	GL	76	2	MAIN QUAD	QUAD 2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8663	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8672	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8658	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8662	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	CHECK VALVE	BETWEEN WALKWAYS	Y
8671	Q	V (Cx2)	GL	76	2	MAIN QUAD	QUAD 1/2	LO WASH REGULATOR	BETWEEN WALKWAYS	Y
8661	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8669	Q	V	GL	76	2	MAIN QUAD	QUAD 1	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8670	Q	V O/E	GL	76	2	MAIN QUAD	QUAD 1	CLEANOUT VALVE	BETWEEN WALKWAYS	Y
8665	Q	V	GL	76	2	MAIN QUAD	QUAD 1/2	BLOCKING VALVE	BETWEEN WALKWAYS	Y
8666	A,V,O	(Cx2)	GL	76	2	MAIN QUAD	QUAD 2	SIGHT GLASS	BETWEEN WALKWAYS	Y
8667	Q	V	GL	76	2	MAIN QUAD	QUAD 2	STEM VALVE	BETWEEN WALKWAYS	Y
8668	Q	V	GL	76	2	MAIN QUAD	QUAD 1	STEM VALVE	BETWEEN WALKWAYS	Y

TABLE 77
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH AND BALANCING GAS AREAS, MAIN QUADS NO. 3 AND 4

Tag Identification	Monitoring Frequency	Component Type	Fluid	Figure #	Control Room			
8771		QUAD #3 AREA						
8700	Q	V	G	77	2	MAIN QUAD	R-403A	BENZENE OVERFLOW VALVE BLOCKING	OVER WALKWAY	Y
8701	Q	V O/E	G	77	2	MAIN QUAD	R-403A	BENZENE OVERFLOW VALVE CLEANOUT	OVER WALKWAY	Y
8702	Q	V	G	77	2	MAIN QUAD	R-403B	BENZENE OVERFLOW VALVE BLOCKING	OVER WALKWAY	Y
8703	Q	V O/E	G	77	2	MAIN QUAD	R-403B	BENZENE OVERFLOW VALVE CLEANOUT	OVER WALKWAY	Y
8704	Q	V	G	77	2	MAIN QUAD	R-403C	BENZENE OVERFLOW VALVE BLOCKING	OVER WALKWAY	Y
8705	Q	V O/E	G	77	2	MAIN QUAD	R-403C	BENZENE OVERFLOW VALVE CLEANOUT	OVER WALKWAY	Y
8706	Q	V	G	77	2	MAIN QUAD	R-403D	BENZENE OVERFLOW VALVE BLOCKING	OVER WALKWAY	Y
8707	Q	V O/E	G	77	2	MAIN QUAD	R-403D	BENZENE OVERFLOW VALVE CLEANOUT	OVER WALKWAY	Y
8715	Q	V	G	77	2	MAIN QUAD	R-403A	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8716	Q	V O/E	G	77	2	MAIN QUAD	R-403A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8717	Q	V	G	77	2	MAIN QUAD	R-403A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8718	Q	V O/E	G	77	2	MAIN QUAD	R-403A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8719	Q	V	G	77	2	MAIN QUAD	R-403B	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8720	Q	V	G	77	2	MAIN QUAD	R-403B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8721	Q	V O/E	G	77	2	MAIN QUAD	R-403B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8722	Q	V O/E	G	77	2	MAIN QUAD	R-403C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8723	Q	V	G	77	2	MAIN QUAD	R-403C	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8724	Q	V O/E	G	77	2	MAIN QUAD	R-403D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8725	Q	V	G	77	2	MAIN QUAD	R-403D	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-403A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-403B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-403C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-403D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8772		QUAD #4 AREA						
8730	Q	V	G	77	2	MAIN QUAD	R-404A	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8731	Q	V O/E	G	77	2	MAIN QUAD	R-404A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8732	Q	V	G	77	2	MAIN QUAD	R-404B	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8733	Q	V O/E	G	77	2	MAIN QUAD	R-404B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8734	Q	V	G	77	2	MAIN QUAD	R-404C	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8735	Q	V O/E	G	77	2	MAIN QUAD	R-404C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8736	Q	V	G	77	2	MAIN QUAD	R-404D	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8737	Q	V O/E	G	77	2	MAIN QUAD	R-404D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8745	Q	V O/E	G	77	2	MAIN QUAD	R-404A	BENZENE OVER FLOW VALVE CHECKING	EAST OF WALKWAY	Y
8746	Q	V	G	77	2	MAIN QUAD	R-404A	BENZENE OVER FLOW VALVE BLOCKING	EAST OF WALKWAY	Y
8747	Q	V O/E	G	77	2	MAIN QUAD	R-404A	BENZENE OVER FLOW VALVE CHECKING	EAST OF WALKWAY	Y
8748	Q	V O/E	G	77	2	MAIN QUAD	R-404B	BENZENE OVER FLOW VALVE BLOCKING	EAST OF WALKWAY	Y
8749	Q	V	G	77	2	MAIN QUAD	R-404B	BENZENE OVER FLOW VALVE CHECKING	EAST OF WALKWAY	Y
8750	Q	V O/E	G	77	2	MAIN QUAD	R-404C	BENZENE OVER FLOW VALVE BLOCKING	EAST OF WALKWAY	Y
8751	Q	V	G	77	2	MAIN QUAD	R-404C	BENZENE OVER FLOW VALVE CHECKING	EAST OF WALKWAY	Y
8752	Q	V O/E	G	77	2	MAIN QUAD	R-404D	BENZENE OVER FLOW VALVE BLOCKING	EAST OF WALKWAY	Y
8753	Q	V	G	77	2	MAIN QUAD	R-404D	BENZENE OVER FLOW VALVE CHECKING	EAST OF WALKWAY	Y
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-404A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-404B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-404C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	77	2	MAIN QUAD	R-404D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8763		LIGHT OIL WASH AREA						
8754	Q	V	L	77	2	MAIN QUAD	QUAD 3	LO WASH VALVE	BETWEEN WALKWAYS	Y
8765	Q	V	L	77	2	MAIN QUAD	QUAD 3	LO WASH VALVE	BETWEEN WALKWAYS	Y
8764	Q	V	L	77	2	MAIN QUAD	QUAD 3	LO WASH VALVE	BETWEEN WALKWAYS	Y
8763	A,V,O	C	L	77	2	MAIN QUAD	QUAD 3	LO WASH PRESSURE GAUGE	BETWEEN WALKWAYS	Y
8762	Q	V O/E	L	77	2	MAIN QUAD	QUAD 3	LO WASH VALVE	BETWEEN WALKWAYS	Y
8769	A,V,O	C(x2)	L	77	2	MAIN QUAD	QUAD 3	LO WASH SIGHT GLASS	BETWEEN WALKWAYS	Y
8770	Q	V	L	77	2	MAIN QUAD	QUAD 3	LO WASH VALVE MAIN CUTOFF QUAD 3	BETWEEN WALKWAYS	Y
8760	A,V,O	C(x2)	L	77	2	MAIN QUAD	QUAD 4	LO WASH SIGHT GLASS	BETWEEN WALKWAYS	Y
8761	Q	V	L	77	2	MAIN QUAD	QUAD 4	LO WASH VALVE MAIN CUTOFF QUAD 4	BETWEEN WALKWAYS	Y
8766	Q	V	L	77	2	MAIN QUAD	QUAD 4	LO WASH VALVE	BETWEEN WALKWAYS	Y

TABLE 77 (continued)

8774		BALANCING GAS AREA							
8780	Q	V	GL	77	2	MAIN QUAD	QUAD 3	LIGHT OIL BALANCING GAS VALVE MAIN CUTOFF QUAD 3	BETWEEN WALKWAYS	Y
8781	Q	V	GL	77	2	MAIN QUAD	QUAD 3	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8782	Q	V	GL	77	2	MAIN QUAD	QUAD 3	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8783	Q	V	GL	77	2	MAIN QUAD	QUAD 3	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8791	Q	V	GL	77	2	MAIN QUAD	QUAD 3	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8785	Q	V	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8786	Q	V	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE MAIN CUTOFF QUAD 4	BETWEEN WALKWAYS	Y
8787	Q	V O/E	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE CLEANOUT	BETWEEN WALKWAYS	Y
8788	Q	V	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8792	Q	CV	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8789	Q	V	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8790	Q	V	GL	77	2	MAIN QUAD	QUAD 4	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y

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TABLE 78
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH AND BALANCING GAS AREAS, MAIN QUADS NO. 5 AND 6

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
8781		QUAD #5 AREA							
8800	Q	V	G	78	2	MAIN QUAD	R-405A	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8801	Q	V O/E	G	78	2	MAIN QUAD	R-405A	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8802	Q	V	G	78	2	MAIN QUAD	R-405B	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8803	Q	V O/E	G	78	2	MAIN QUAD	R-405B	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8804	Q	V	G	78	2	MAIN QUAD	R-405C	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8805	Q	V O/E	G	78	2	MAIN QUAD	R-405C	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8806	Q	V	G	78	2	MAIN QUAD	R-405D	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8807	Q	V O/E	G	78	2	MAIN QUAD	R-405D	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8815	Q	V O/E	G	78	2	MAIN QUAD	R-405D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8816	Q	V	G	78	2	MAIN QUAD	R-405D	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8817	Q	V O/E	G	78	2	MAIN QUAD	R-405D	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8818	Q	V O/E	G	78	2	MAIN QUAD	R-405C	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8819	Q	V	G	78	2	MAIN QUAD	R-405C	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8820	Q	V O/E	G	78	2	MAIN QUAD	R-405B	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8821	Q	V	G	78	2	MAIN QUAD	R-405B	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
8822	Q	V O/E	G	78	2	MAIN QUAD	R-405A	LIGHT OIL BALANCING GAS VALVE CLEANOUT	OVER WALKWAY	Y
8823	Q	V	G	78	2	MAIN QUAD	R-405A	LIGHT OIL BALANCING GAS VALVE BLOCKING	OVER WALKWAY	Y
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-405A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-405B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-405C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-405D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8782		QUAD #6 AREA							
8830	Q	V	G	78	2	MAIN QUAD	R-406D	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8831	Q	V O/E	G	78	2	MAIN QUAD	R-406D	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8832	Q	V	G	78	2	MAIN QUAD	R-406C	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8833	Q	V O/E	G	78	2	MAIN QUAD	R-406C	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8834	Q	V	G	78	2	MAIN QUAD	R-406B	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8835	Q	V O/E	G	78	2	MAIN QUAD	R-406B	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8836	Q	V	G	78	2	MAIN QUAD	R-406A	BENZENE OVER FLOW VALVE BLOCKING	OVER WALKWAY	Y
8837	Q	V O/E	G	78	2	MAIN QUAD	R-406A	BENZENE OVER FLOW VALVE CLEANOUT	OVER WALKWAY	Y
8845	Q	V O/E	G	78	2	MAIN QUAD	R-406D	LIGHT OIL BALANCING GAS FLOW CLEANOUT	OVER WALKWAY	Y
8846	Q	V	G	78	2	MAIN QUAD	R-406D	LIGHT OIL BALANCING GAS FLOW BLOCKING	OVER WALKWAY	Y
8847	Q	V O/E	G	78	2	MAIN QUAD	R-406D	LIGHT OIL BALANCING GAS FLOW CLEANOUT	OVER WALKWAY	Y
8848	Q	V	G	78	2	MAIN QUAD	R-406C	LIGHT OIL BALANCING GAS FLOW CLEANOUT	OVER WALKWAY	Y
8824	Q	C O/E	G	78	2	MAIN QUAD	R-406C	LIGHT OIL BALANCING GAS FLOW PRESSURE GAUGE (w/ open end)	OVER WALKWAY	Y
8849	Q	V	G	78	2	MAIN QUAD	R-406C	LIGHT OIL BALANCING GAS FLOW CLEANOUT	OVER WALKWAY	Y
8788	Q	V	G	78	2	MAIN QUAD	R-406B	LIGHT OIL BALANCING GAS FLOW BLOCKING (beneath blind)	INLINE VALVE	Y
8850	Q	V	G	78	2	MAIN QUAD	R-406B	LIGHT OIL BALANCING GAS FLOW CLEANOUT	1ST BLIND VALVE	Y
8854	A,V,O	C	G	78	2	MAIN QUAD	R-406B	LIGHT OIL BALANCING GAS FLOW BLOCKING	OVER WALKWAY	Y
8852	Q	V O/E	G	78	2	MAIN QUAD	R-406A	LIGHT OIL BALANCING GAS FLOW CLEANOUT	OVER WALKWAY	Y
8853	Q	V	G	78	2	MAIN QUAD	R-406A	LIGHT OIL BALANCING GAS FLOW BLOCKING	OVER WALKWAY	Y
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-406A	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-406B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-406C	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-406D	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BENZENE OVERFLOW LINE	ABOVE QUAD	N
8783		LIGHT OIL WASH AREA							
8860	A,V,O	C(x2)	L	78	2	MAIN QUAD	QUAD 5	LO WASH SIGHT GLASS	BETWEEN WALKWAYS	Y
8861	Q	V	L	78	2	MAIN QUAD	QUAD 5	LO WASH VALVE MAIN CUT OFF QUAD 5	BETWEEN WALKWAYS	Y
8862	Q	V O/E	L	78	2	MAIN QUAD	QUAD 5	LO WASH VALVE	BETWEEN WALKWAYS	Y
8863	Q	V	L	78	2	MAIN QUAD	QUAD 5	LO WASH CHECK VALVE	BETWEEN WALKWAYS	Y
8864	Q	V	L	78	2	MAIN QUAD	QUAD 5	LO WASH VALVE	BETWEEN WALKWAYS	Y
8865	Q	V O/E	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE BACKUP	BETWEEN WALKWAYS	Y
8866	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE	BETWEEN WALKWAYS	Y
8867	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE	BETWEEN WALKWAYS	Y
8868	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE	BETWEEN WALKWAYS	Y
8869	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH CHECK VALVE	BETWEEN WALKWAYS	Y
8870	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE	BETWEEN WALKWAYS	Y

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TABLE 78 (continued)

8871	A,V,O	C(x2)	L	78	2	MAIN QUAD	QUAD 6	LO WASH SIGHT GLASS	BETWEEN WALKWAYS	Y
8872	Q	V	L	78	2	MAIN QUAD	QUAD 6	LO WASH VALVE MAIN CUTOFF QUAD 6	BETWEEN WALKWAYS	Y
0784	BALANCING GAS AREA									
8880	Q	V	GL	78	2	MAIN QUAD	QUAD 5	LIGHT OIL BALANCING GAS VALVE MAIN CUTOFF QUAD 5	BETWEEN WALKWAYS	Y
8881	Q	V	GL	78	2	MAIN QUAD	QUAD 5	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8882	Q	V	GL	78	2	MAIN QUAD	QUAD 5	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8883	Q	V	GL	78	2	MAIN QUAD	QUAD 5	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8884	Q	V O/E	GL	78	2	MAIN QUAD	QUAD 5	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8885	Q	V	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8886	Q	V	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS VALVE MAIN CUTOFF QUAD 6	BETWEEN WALKWAYS	Y
8887	Q	V	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8888	Q	V	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8889	Q	V	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	Y
8890	Q	C O/E	GL	78	2	MAIN QUAD	QUAD 6	LIGHT OIL BALANCING GAS CLEANOUT VALVE	BETWEEN WALKWAYS	Y

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TABLE 79
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL WASH AND BALANCING GAS AREAS, MAIN QUAD NO. 7

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure 8	Control Room				
8791		QUAD 87 AREA							
8900	Q	V	G	79	2	MAIN QUAD	R-407A	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8901	Q	V O/E	G	79	2	MAIN QUAD	R-407A	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8902	Q	V	G	79	2	MAIN QUAD	R-407B	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8903	Q	V O/E	G	79	2	MAIN QUAD	R-407B	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8904	Q	V	G	79	2	MAIN QUAD	R-407C	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8905	Q	V O/E	G	79	2	MAIN QUAD	R-407C	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8906	Q	V	G	79	2	MAIN QUAD	R-407D	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
8907	Q	V O/E	G	79	2	MAIN QUAD	R-407D	BENZENE OVER FLOW VALVE	OVER WALKWAY	Y
	A,V,O	C(x3)	G	78	2	MAIN QUAD	R-407A	3 MANHEADS ABOVE QUAD	ABOVE QUAD	N
	A,V,O	C(x4)	G	78	2	MAIN QUAD	R-407B	3 MANHEADS ABOVE QUAD PLUS FLANGE ON BALANCING LINE	ABOVE QUAD	N
	A,V,O	C(x3)	G	78	2	MAIN QUAD	R-407C	3 MANHEADS ABOVE QUAD	ABOVE QUAD	N
	A,V,O	C(x5)	G	78	2	MAIN QUAD	R-407D	3 MANHEADS ABOVE QUAD PLUS 2 FLANGES ON BALANCING LINE	ABOVE QUAD	N
8792		BALANCING GAS AREA							
8168	A	V	GL	79	2	MAIN QUAD	R-407B	LIGHT OIL BALANCING GAS VALVE	BETWEEN WALKWAYS	DTM
8793		LIGHT OIL WASH AREA							
8908	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8920	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8909	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8917	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8916	Q	V O/E	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8915	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8911	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8912	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8913	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y
8914	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH CLEANOUT VALVE	BETWEEN WALKWAYS	Y
8910	Q	V	L	79	2	MAIN QUAD	QUAD 7	LO WASH VALVE BLOCKING	BETWEEN WALKWAYS	Y

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TABLE 80
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SUB GAS BYPASS TO CARBONATE

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
6551	Q	V	G	80	2	LO REGEN	R-590	VALVE	AREA	Y
6552	Q	V	G	80	2	LO REGEN	R-590	VALVE	AREA	Y
6553	A,V,O	C(x2)	G	80	2	LO REGEN	R-590	35 PSIG SWITCH	AREA	Y
6554	Q	V	G	80	2	LO REGEN	R-590	PRESSURE TAP	AREA	Y
6555	A,V,O	C	G	80	2	LO REGEN	R-590	PRESSURE GAUGE	AREA	Y
6556	Q	V	G	80	2	LO REGEN	R-590	BLOCKING VALVE	AREA	Y
6576	Q	V	G	80	2	LO REGEN	R-590	TWO WAY 1/2" VALVE	AREA	Y
6557	Q	V	G	80	2	LO REGEN	R-590	REGULATOR VALVE	AREA	Y
6558	Q	V O/E	G	80	2	LO REGEN	R-590	VALVE	AREA	Y
6559	Q	V	G	80	2	LO REGEN	R-590	VALVE	AREA	Y
6560	Q	V	G	80	2	LO REGEN	R-590	VALVE	AREA	Y
6561	Q	V	G	80	2	LO REGEN	R-590	BLOCKING VALVE	AREA	Y
6577	Q	V	G	80	2	LO REGEN	R-590	TWO WAY 1/2" VALVE	AREA	Y
6578	Q	V	G	80	2	LO REGEN	R-590	TWO WAY 1/2" VALVE (leads to 6560)	AREA	Y
6562	Q	V	G	80	2	LO REGEN	R-590	REGULATOR VALVE	AREA	Y
6563	Q	V	G	80	2	LO REGEN	R-590	PRESSURE TAP	AREA	Y
6565	A,V,O	C(x2)	G	80	2	LO REGEN	R-590	PRESSURE TRANSDUCER	AREA	Y
6564	Q	V	G	80	2	LO REGEN	R-590	PRESSURE TAP	AREA	Y
6550	A,V,O	C(x2)	G	80	2	LO REGEN	R-590	PRESSURE SWITCH	AREA	Y
6566	Q	V	G	80	2	LO REGEN	R-590	PRESSURE TAP	AREA	Y
6567	A,V,O	C	G	80	2	LO REGEN	R-590	PRESSURE GAUGE	AREA	Y
6568	A,V,O	C(x2)	G	80	2	LO REGEN	R-590	30 PSIG ALARM	AREA	Y
6569	Q	V	G	80	2	LO REGEN	R-590	CLEANOUT VALVE	AREA	Y
6570	A,V,O	C	G	80	2	LO REGEN	R-590	CLEANOUT GAUGE	AREA	Y
6571	Q	V	G	80	2	LO REGEN	R-590	CONTROL VALVE	AREA	Y
6572	A,V,O	C	G	80	2	LO REGEN	R-590	PRESSURE TAP	AREA	Y
6573	Q	V	G	80	2	LO REGEN	R-590	PRESSURE TAP VALVE	AREA	Y
6574	Q	V	G	80	2	LO REGEN	R-590	BLOCKING VALVE	SW Side of Stairs, below	Y
6575	Q	V	G	80	2	LO REGEN	R-590	RECIRCULATION BLOCKING VALVE	AREA	Y

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TABLE 81
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
LIGHT OIL DECANT VENTING SYSTEM

Tag Identification	Monitoring Frequency	Component Type	Phase	Figure #	Control Room				
1900	A,V,O	C	G	81	2	LO DECANT	D-604/605	PRESSURE SWITCH GAUGE	THIRD LEVEL	Y
1901	Q	V	G	81	2	LO DECANT	D-604/605	PRESSURE SWITCH 6086 BLOCKING VALVE	THIRD LEVEL, EAST SIDE	Y
1902	Q	V	G	81	2	LO DECANT	D-604/605	PRESSURE SWITCH GAUGE VALVE	THIRD LEVEL, EAST SIDE	Y
1904	Q	V	G	81	2	LO DECANT	D-604/605	LIGHT OIL DECANTER BLOCKING VALVE	THIRD LEVEL	Y
1910	A	V	G	81	2	DECANTERS	D-604/605	BLOCKING VALVE	THIRD LEVEL, EAST SIDE	DIM
1911	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL, EAST SIDE	Y
1912	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL, EAST SIDE	Y
1913	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL, EAST SIDE	Y
1914	Q	V	G	81	2	DECANTERS	D-604/605	CONTROL VALVE	THIRD LEVEL, EAST SIDE	Y
1915	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1920	Q	V	G	81	2	DECANTERS	D-604/605	CONTROL VALVE	THIRD LEVEL, EAST SIDE	Y
1921	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL, EAST SIDE	Y
1922	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL, EAST SIDE	Y
1923	Q	V	G	81	2	DECANTERS	D-604/605	PCV VALVE 15024	THIRD LEVEL, EAST SIDE	Y
1925	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1924	Q	V	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1926	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1927	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1930	Q	V	G	81	2	DECANTERS	D-604/605	BLOCKING VALVE	THIRD LEVEL, EAST SIDE	Y
1931	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL, EAST SIDE	Y
1932	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL	Y
1933	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL	Y
1934	Q	V,O/E	G	81	2	DECANTERS	D-604/605	CLEANOUT VALVE	THIRD LEVEL	Y
1935	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL	Y
1940	A,V,O	C(x2)	G	81	2	DECANTERS	D-604/605	PRESSURE TRANSDUCER 6040	THIRD LEVEL	Y
1941	A,V,O	C	G	81	2	DECANTERS	D-604/605	PRESSURE GAUGE	THIRD LEVEL	Y
1942	Q	V	G	81	2	DECANTERS	D-604/605	PRESSURE TAP	THIRD LEVEL	Y
1943	Q	V	G	81	2	DECANTERS	D-604/605	PRESSURE TAP	THIRD LEVEL	Y
1944	Q	V,O/E	G	81	2	DECANTERS	D-604/605	PRESSURE TAP CLEANOUT	THIRD LEVEL	Y
1955	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL	Y
1949	Q	V	G	81	2	DECANTERS	D-604/605	PRESSURE TAP	THIRD LEVEL	Y
1965	Q	V,O/E	G	81	2	DECANTERS	D-604/605	PRESSURE TAP CLEANOUT	THIRD LEVEL	Y
1950	A,V,O	C(x2)	G	81	2	DECANTERS	D-604/605	PRESSURE SWITCH 6028A	THIRD LEVEL	Y
1951	Q	V	G	81	2	DECANTERS	D-604/605	RETURN LINE BLOCKING VALVE TO MAIN L.O. FEED FROM FIG. 63	THIRD LEVEL	Y
1947	Q	V,O/E	G	81	2	DECANTERS	D-604/605	PRESSURE TAP CLEANOUT	THIRD LEVEL	Y
1948	Q	V	G	81	2	DECANTERS	D-604/605	PRESSURE GAUGE VALVE	THIRD LEVEL	Y
1946	A,V,O	C	G	81	2	DECANTERS	D-604/605	PRESSURE GAUGE	THIRD LEVEL	Y
1945	Q	V	G	81	2	DECANTERS	D-604/605	VALVE	THIRD LEVEL	Y
1952	A,V,O	C	G	81	2	DECANTERS	D-604/605	PRESSURE GAUGE	THIRD LEVEL	Y
1960	Q	V	G	81	2	DECANTERS	D-604/605	DRAIN VALVE	THIRD LEVEL	Y
1961	Q	V,O/E	G	81	2	DECANTERS	D-604/605	DRAIN VALVE	THIRD LEVEL	Y
1962	Q	V	G	81	2	DECANTERS	D-604/605	DRAIN VALVE	THIRD LEVEL	Y
1963	Q	V	G	81	2	DECANTERS	D-604/605	DRAIN VALVE	THIRD LEVEL	Y
1964	Q	V	G	81	2	DECANTERS	D-604/605	DRAIN VALVE	THIRD LEVEL	Y
	A,V,O	C(x3)	G	81	2	DECANTERS	D-604/605	VARIOUS UNMARKED FLANGES	THIRD LEVEL	Y

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TABLE 82
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
FLARE SYSTEM

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
~~9101~~	~~Q~~	~~V~~	~~G~~	~~15.0~~	~~82~~	~~WW~~	~~FLARE~~		~~STEAM/WASTEWATER CONTROL BLOCKING VALVE~~	~~FLARE~~	~~Y~~
9102	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	PRESSURE VALVE	FLARE	Y
9103	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	PRESSURE GAUGE	FLARE	Y
9104	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	PRESSURE VALVE	FLARE	Y
9105	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	PRESSURE GAUGE	FLARE	Y
9106	Q	V	G	15.0	82	WW	FLARE	Line from tanks	VENT LINE BLOCKING VALVE	FLARE	Y
9107	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	CLEANOUT/VENT O/E VALVE (north side of line)	FLARE	Y
9108	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	SOUTH CLEANOUT/VENT O/E VALVE (south side of line)	FLARE	Y
9114	Q	V O/E	G	15.0	82	WW	FLARE	Line from tanks	SOUTH CLEANOUT/VENT O/E VALVE	FLARE	Y
9109	Q	V	G	15.0	82	WW	FLARE	SOUTH TK	SOUTH TANK VENT LINE PRESSURE VALVE	FARM	Y
9110	A,V,O	C	G	15.0	82	WW	FLARE	SOUTH TK	SOUTH TANK VENT LINE PRESSURE GAUGE	FARM	Y
9111	Q	V O/E	G	15.0	82	WW	FLARE	MIDDLE TK	NORTH TANK VENT LINE O/E VENT VALVE	FARM	Y
9112	Q	V O/E	G	15.0	82	WW	FLARE	NORTH TK	NORTH TANK VENT LINE CLEANOUT O/E VALVE	FARM	Y
9113	Q	V O/E	G	15.0	82	WW	FLARE	SOUTH TK	SOUTH TANK VENT LINE CLEANOUT O/E VALVE	FARM	Y
	A,V,O	C(x20)	G	15.0	82	WW	FLARE	VENT LINE	FLANGES ALONG VENT LINE	VENT LINE	Y

TABLE 83
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
NORTH WASTEWATER STORAGE TANK

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9122	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	OPEN ENDED PRESSURE TAP--OUT OF SERVICE LINE	BOTTOM SIDE	Y
9115	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	SOUTH SIDE BLIND VALVE #1 (Westernmost valve of two blind valves)	South Side-4' High	Y
9116	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	SOUTH SIDE BLIND VALVE #1 (Easternmost valve of two blind valves)	South Side-4' High	Y
9130	Q	V	L	7.5	83	WW	STORAGE TANK	NORTH TK	SOUTH SIDE SUMP VALVE #1 (Westernmost valve of two sump valves)	South Side-7' High	Y
9131	Q	V	L	7.5	83	WW	STORAGE TANK	NORTH TK	SOUTH SIDE SUMP VALVE #1 (Easternmost valve of two sump valves)	South Side-7' High	Y
9132 a	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	S Side-1' High	Y
9132 b	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	SSE Side-1' High	Y
9132 c	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	SE Side-1' High	Y
9132 d	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	ESE Side-1' High	Y
9132 e	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	E Side-1' High	Y
9132 f	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	ENE Side-1' High	Y
9132 g	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	N Side-1' High	Y
9132 h	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	N Side-1' High	Y
9132 i	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	NW Side-1' High	Y
9132 j	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	W Side-1' High	Y
9132 k	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	WSW Side-1' High	Y
9132 l	Q	V O/E	L	7.5	83	WW	STORAGE TANK	NORTH TK	1" Blind Drain Valve	SW Side-1' High	Y
9124	Q	O/E	G	7.5	83	WW	STORAGE TANK	NORTH TK	SUCTION SIDE OF CONSERVATION VENT	Top of Tank	
9125	Q	O/E	G	7.5	83	WW	STORAGE TANK	NORTH TK	DISCHARGE SIDE OF CONSERVATION VENT	Top of Tank	
9226	Q	V O/E	G	7.5	83	WW	STORAGE TANK	NORTH TK	OPEN ENDED PRESSURE TAP	Top of Tank	
9228	Q	O/E	G	7.5	83	WW	STORAGE TANK	NORTH TK	SUCTION SIDE OF CONSERVATION VENT	Top of Tank	
9229	Q	O/E	G	7.5	83	WW	STORAGE TANK	NORTH TK	DISCHARGE SIDE OF CONSERVATION VENT	Top of Tank	
	A.V.O	C(X15)	G/L	15.0	83	WW	STORAGE TANK	NORTH TK	VARIOUS OTHER FLANGES AND MANHEAD COVERS	TOP/SIDE	Y

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TABLE 84
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
MIDDLE WATEWATER STORAGE TANK

UNIT NOT IN SERVICE, NO COMPONENTS REGISTERED

TABLE 85
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
SOUTH WATEWATER STORAGE TANK

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure 8	Control Room					
9160	Q	O/E	G	15.0	85	WW	STORAGE TANK	SOUTH TK	DISCHARGE SIDE OF CONSERVATION VENT	TOP PLATFORM	Y
9161	Q	O/E	G	15.0	85	WW	STORAGE TANK	SOUTH TK	SUCTION SIDE OF CONSERVATION VENT	TOP PLATFORM	Y
9162	Q	V	L	7.5	85	WW	STORAGE TANK	SOUTH TK	CONTAMINATED WATER/SUMP DISCHARGE VALVE	BOTTOM SIDE	Y
9163	A,V,O	C	G	15.0	85	WW	STORAGE TANK	SOUTH TK	ACCESS HATCH	TOP PLATFORM	Y
9164	Q	O/E	G	15.0	85	WW	STORAGE TANK	SOUTH TK	SUCTION SIDE OF CONSERVATION VENT	TOP PLATFORM	Y
9165	Q	O/E	G	15.0	85	WW	STORAGE TANK	SOUTH TK	DISCHARGE SIDE OF CONSERVATION VENT	TOP PLATFORM	Y
9166	Q	V	G	7.5	85	WW	STORAGE TANK	SOUTH TK	CONTAMINATED WATER/SUMP DISCHARGE VALVE	BOTTOM SIDE	Y
9167	Q	V O/E	G	15.0	85	WW	STORAGE TANK	SOUTH TK	PRESSURE TAP VALVE	TOP PLATFORM	Y
9168	A,V,O	C	G	15.0	85	WW	STORAGE TANK	SOUTH TK	PRESSURE TAP GAUGE	TOP PLATFORM	Y
9169	A,V,O	C	G	15.0	85	WW	STORAGE TANK	SOUTH TK	ACCESS HATCH	TOP SIDE OF WALKWAY	Y
9170	Q	V O/E	L	7.5	85	WW	STORAGE TANK	SOUTH TK	OPEN ENDED PRESSURE TAP	BOTTOM SIDE	Y
9171	Q	V O/E	L	7.5	85	WW	STORAGE TANK	SOUTH TK	CONTAMINATED WATER CLEANOUT VALVE	NORTHEAST CLEANOUT	Y
9172	Q	V O/E	L	7.5	85	WW	STORAGE TANK	SOUTH TK	OPEN ENDED PRESSURE TAP	NORTH CLEANOUT	Y
	A,V,O	C(X12)	G/L	15.0	85	WW	STORAGE TANK	SOUTH TK	VARIOUS OTHER FLANGES AND MANHEAD COVERS	TOP/SIDE	Y

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TABLE 86
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
INCOMING LIGHT OIL, ACROSS ROADWAY

NO REGISTERED COMPONENTS

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TABLE 87
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
INCOMING LIGHT OIL, OVER STILL HOUSE

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9000	UTM	V	L	57.6	87	KOP	OVERHEAD LINE	NO. 1 STILL	NEW LINE BLOCKING VALVE	NEW LINE	UTM
9001	UTM	V	L	57.6	87	KOP	OVERHEAD LINE	NO. 1 STILL	NEW LINE SUMP DISCHARGE BLOCKING VALVE	NEW LINE	UTM
9002	UTM	V	L	57.6	87	KOP	OVERHEAD LINE	NO. 1 STILL	NEW LINE BLOCKING VALVE	NEW LINE	UTM
	UTM-A.V.O	C(x28)	L	57.6	87	KOP	OVERHEAD LINE	NO. 1 STILL	FLANGES ALONG NEW LINE	NEW LINE	UTM

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TABLE 88
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TANK CONNECTIONS, TANKS #61, 62, 63

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9459	Q	V	L	57.6	88	LOS	STORAGE TANK	T-63	LO DISCHARGE CONNECTING VALVE T-63 TO BARGE LOADING PUMPS	EAST SIDE	Y
9462	Q	V	L	7.5	88	LOS	STORAGE TANK	T-63	CONTAMINATED WATER DISCHARGE	EAST SIDE	Y
9463	Q	V	L	7.5	88	LOS	STORAGE TANK	T-63	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-63	EAST SIDE	Y
9457	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-63	SIDE MANHEAD SAMPLE VALVE	NORTH SIDE	Y
9458	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-63	BLIND SIDE SAMPLE VALVE	NORTH SIDE	Y
9454	C	A,V,O	L	57.6	88	LOS	STORAGE TANK	T-63	TEMPERATURE GAUGE, TANK 63		Y
9466	Q	V	L	57.6	88	LOS	STORAGE TANK	T-63	USX (KEYSTONE) IN	WEST SIDE	Y
9449	Q	V	L	57.6	88	LOS	L.O. DISCHARGE LINE	T-62/63	MAIN HEADER LINE FOR BARGE LOADING	BETWEEN 63 AND 62	Y
9484	Q	V	L	7.5	88	LOS	CONT. WATER LINE	T-62/63	MAIN HEADER LINE FOR CONTAMINATED WATER	BETWEEN 63 AND 62	Y
9483	Q	V	L	57.6	88	LOS	L.O. DISCHARGE LINE	T-62/63	MAIN HEADER LINE FOR BARGE LOADING	BETWEEN 63 AND 62	Y
9451	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-62	BLIND VALVE OFF OF TANK 62		Y
9496	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-62	BLIND VALVE OFF OF TANK 62		Y
9425	C	A,V,O	L	57.6	88	LOS	STORAGE TANK	T-62	TEMPERATURE GAUGE, TANK 62		Y
9485	Q	V	L	57.6	88	LOS	STORAGE TANK	T-62	LO DISCHARGE CONNECTING VALVE T-62 TO BARGE LOADING PUMPS	EAST SIDE	Y
9497	Q	V	L	57.6	88	LOS	STORAGE TANK	T-62	LO DISCHARGE CONNECTING VALVE T-62 TO BARGE LOADING PUMPS	EAST SIDE	Y
9498	Q	V	L	57.6	88	LOS	L.O. DISCHARGE LINE	T-62	LO DISCHARGE TO BARGE LOADING PUMPS	NORTH OF 62	Y
9492	Q	V	L	57.6	88	LOS	L.O. DISCHARGE LINE	T-62/63	LO DISCHARGE BLOCKING VALVE TO BARGE LOADING PUMPS	NORTH OF 62	Y
9470	Q	V	L	7.5	88	LOS	STORAGE TANK	T-62	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-62	EAST SIDE	Y
9471	Q	V	L	7.5	88	LOS	STORAGE TANK	T-62	CONTAMINATED WATER DISCHARGE BYPASS/SUMP LINE	NORTH SIDE	Y
9472	Q	V	L	7.5	88	LOS	STORAGE TANK	T-62	CONTAMINATED WATER DISCHARGE	EAST SIDE	Y
9473	Q	V	L	7.5	88	LOS	STORAGE TANK	T-62	CONTAMINATED WATER DISCHARGE BYPASS/SUMP VALVE TO T-62	NORTH SIDE	Y
9475	Q	V	L	57.6	88	LOS	STORAGE TANK	T-62	USX (KEYSTONE) IN	WEST SIDE	Y
9488	Q	V	L	57.6	88	LOS	STORAGE TANK	T-62	USX (KEYSTONE) IN--CLEANOUT VALVE ON PLATFORM LEVEL	PLATFORM-NORTH OF 62	Y
9489	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-62	USX (KEYSTONE) IN--CLEANOUT O/E VALVE ON PLATFORM LEVEL	PLATFORM-NORTH OF 62	Y
9452	Q	V O/E	L	57.6	88	LOS	STORAGE TANK	T-61	BLIND VALVE OFF OF TANK 61		Y
9453	A,V,O	C	L	57.6	88	LOS	STORAGE TANK	T-61	TEMPERATURE GAUGE, TANK 61		Y
9428	Q	V	L	57.6	88	LOS	STORAGE TANK	T-61	LO DISCHARGE CONNECTING VALVE T-62 TO BARGE LOADING PUMPS	EAST SIDE	Y
9423	Q	V O/E	L	57.6	88	LOS	L.O. DISCHARGE LINE	T-61	L.O. DISCHARGE LINE--CLEANOUT VALVE		Y
9440	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-62	EAST SIDE	Y
9431	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	CONTAMINATED WATER DISCHARGE VALVE	EAST SIDE	Y
9432	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-62	EAST SIDE	Y
9429	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	CONTAMINATED WATER DISCHARGE VALVE	EAST SIDE	Y
9456	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER IN FROM COMPRESSOR STATION	2" LINE	Y
9450	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DRAIN VALVE	SOUTHWEST SIDE	Y
9971	Q	V O/E	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DRAIN VALVE	SOUTHWEST SIDE	Y
9970	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP BLOCKING VALVE	SOUTHWEST SIDE	Y
9982	M	P	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP PUMP #1	SOUTHWEST SIDE	Y
9983	Q	V O/E	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMP #1 DRAIN VALVE	SOUTHWEST SIDE	Y
9980	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE PRESSURE VALVE	SOUTHWEST SIDE	Y
9981	A,V,O	C	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE PRESSURE GAUGE	SOUTHWEST SIDE	Y
9979	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE BLOCKING VALVE	SOUTHWEST SIDE	Y
9972	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP BLOCKING VALVE	SOUTHWEST SIDE	Y
9973	Q	V O/E	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DRAIN VALVE	SOUTHWEST SIDE	Y

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9974	M	P	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP PUMP #1	SOUTHWEST SIDE	Y
9975	Q	V O/E	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMP #1 DRAIN VALVE	SOUTHWEST SIDE	Y
9976	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE PRESSURE VALVE	SOUTHWEST SIDE	Y
9977	A,V,O	C	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE PRESSURE GAUGE	SOUTHWEST SIDE	Y
9978	Q	V	L	7.5	88	LOS	STORAGE TANK	T-61	SEAL WATER OUT PUMPING LOOP DISCHARGE BLOCKING VALVE	SOUTHWEST SIDE	Y
9444	Q	V	L	57.6	88	LOS	STORAGE TANK	T-61	USX (KEYSTONE) IN	WEST SIDE	Y
9424	Q	V O/E	L	57.6	88	LOS	L.O. DISCHARGE LINE	GENERAL	BLIND VALVE	BETWEEN 62 AND 62	Y
	C(x7)	A,V,O	L	57.6	88	LOS	VARIOUS	GENERAL	UNMARKED FLANGES, MANHEADS AND CONNECTORS	T-62,62, & 63	Y

TABLE 89
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TANK CONNECTIONS, TANK #64

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9426	Q	V	L	57.6	89	LOS	STORAGE TANK	T-64	LO DISCHARGE CONNECTING VALVE T-64 TO BARGE LOADING PUMPS	EAST SIDE	Y
9433	Q	V	L	57.6	89	LOS	STORAGE TANK	T-64	USX (KEYSTONE) IN	WEST SIDE	Y
9436	Q	V	L	7.5	89	LOS	STORAGE TANK	T-64	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-63	EAST SIDE	Y
9437	Q	V	L	7.5	89	LOS	STORAGE TANK	T-64	CONTAMINATED WATER DISCHARGE	EAST SIDE	Y
9436	Q	V O/E	L	7.5	89	LOS	STORAGE TANK	T-64	BLIND VALVE FOR CONTAMINATED WATER DISCHARGE LINE	NE OF T-64	Y
9427	Q	V O/E	L	57.6	89	LOS	STORAGE TANK	T-64	BLIND VALVE FOR L.O. DISHCARGE LINE	NE OF T-64	Y
9430	C	A,V,O	L	57.6	88	LOS	STORAGE TANK	T-61	TEMPERATURE GAUGE, TANK 64		Y
	A,V,O	C(x3)	L	57.6	88	LOS	VARIOUS	GENERAL	UNMARKED FLANGES, MANHEADS AND CONNECTORS	T-64	Y

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TABLE 90
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TANK #59 DETAILS

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9030	Q	V O/E	L	57.6	90	LOS	STORAGE TANK	T-59	CLEANOUT VALVE--LIGHT OIL DISCHARGE	SIDE	Y
9032	A,V,O	C	L	57.6	90	LOS	STORAGE TANK	T-59	TEMPERATURE GAUGE	SIDE	Y
9033	Q	V	L	57.6	90	LOS	STORAGE TANK	T-59	LO DISCHARGE CONNECTING VALVE T-59 TO BARGE LOADING PUMPS	SIDE	Y
9034	Q	V	L	7.5	90	LOS	STORAGE TANK	T-59	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-59	SIDE	Y
9035	Q	V	L	7.5	90	LOS	STORAGE TANK	T-59	CONTAMINATED WATER DISCHARGE LINE BLOCKING VALVE	SIDE	Y
9036	Q	V	L	57.6	90	LOS	STORAGE TANK	T-59	USX (KEYSTONE) IN	SIDE	Y
	A,V,O	C(x2)	L	57.6	90	LOS	VARIOUS	GENERAL	UNMARKED FLANGES, MANHEADS AND CONNECTORS	T-59	Y

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TABLE 91
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TANK #60 DETAILS

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9050	Q	V	L	57.6	91	LOS	STORAGE TANK	T-60	USX (KEYSTONE) IN	SIDE	Y
9052	A,V,O	C	L	57.6	91	LOS	STORAGE TANK	T-60	TEMPERATURE GAUGE	SIDE	Y
9053	Q	V	L	7.5	91	LOS	STORAGE TANK	T-60	CONTAMINATED WATER DISCHARGE CONNECTING VALVE TO T-60	SIDE	Y
9054	Q	V	L	57.6	91	LOS	STORAGE TANK	T-60	LO DISCHARGE CONNECTING VALVE T-60 TO BARGE LOADING PUMPS	SIDE	Y
9055	Q	V O/E	L	7.5	91	LOS	STORAGE TANK	T-60	LO DISCHARGE LINE CLEANOUT VALVE	SIDE	Y
	A,V,O	C(x2)	L	57.6	91	LOS	VARIOUS	GENERAL	UNMARKED FLANGES, MANHEADS AND CONNECTORS	T-60	Y

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TABLE 97
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
BARGE LOADING PUMP AREA

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9500	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM TANKS 59/60	CLEANOUT VALVE	Y
9501	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM TANKS 59/60	BLOCKING VALVE	Y
9507	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	LO INLET SUCTION VALVE	BLOCKING VALVE	Y
9508	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	LO INLET SUCTION RELIEF VENT	BLOCKING VALVE	Y
9522	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	PUMP HOUSING DRAIN VALVE	DRAIN VALVE	Y
9511	M	P	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	LOADING PUMP P-2	PUMP SEAL	Y
9512	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	INLET CLEANOUT VALVE	CLEANOUT VALVE	Y
9520	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	DISCHARGE CHECK VALVE	CHECK VALVE	Y
9521	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	DISCHARGE VALVE	BLOCKING VALVE	Y
9513	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	DISCHARGE PRESSURE VALVE	BLOCKING VALVE	Y
9515	A,V,O	C	L	57.6	97	LOS	TRANSFER PUMP	PUMP 2	PRESSURE GAUGE	PRESSURE	Y
9502	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM TANKS 59 THRU 64	BLOCKING VALVE	Y
9523	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	LO INLET SUCTION VALVE	BLOCKING VALVE	Y
9524	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	LO INLET SUCTION VENT VALVE	VENT VALVE	Y
9525	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	LO INLET SUCTION VALVE	BLOCKING VALVE	Y
9526	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	PUMP HOUSING DRAIN VALVE	DRAIN VALVE	Y
9527	Q	V O/E	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	INLET CLEANOUT VALVE	CLEANOUT VALVE	Y
9528	M	P	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	LOADING PUMP P-1	PUMP SEAL	Y
9535	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	DISCHARGE CHECK VALVE	CHECK VALVE	Y
9536	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	DISCHARGE VALVE	BLOCKING VALVE	Y
9533	Q	V	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	DISCHARGE PRESSURE VALVE	BLOCKING VALVE	Y
9534	A,V,O	C	L	57.6	97	LOS	TRANSFER PUMP	PUMP 1	PRESSURE GAUGE	PRESSURE	Y
9537	Q	V	L	57.6	97	LOS	GENERAL	PUMPS 1/2	COMBINED MAIN HEADER DISCHARGE LINE	BLOCKING VALVE	Y
9538	Q	V O/E	L	57.6	97	LOS	GENERAL	PUMPS 1/2	COMBINED MAIN HEADER DISCHARGE LINE	CLEANOUT VALVE	Y
9503	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	CLEANOUT VALVE	Y
9504	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	DRAIN VALVE	Y
9505	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLIND VALVE	Y
9506	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9994	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	DRAIN VALVE	Y
9580	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9581	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9575	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLIND VALVE	Y
9574	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9572	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9573	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9571	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9995	Q	V O/E	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
9582	Q	V	L	57.6	97	LOS	INCOMING LINE	PUMPS 1/2	INCOMING LINE FROM OLD TANK MANIFOLD	BLOCKING VALVE	Y
	A,V,O	C(x24)	L	57.6	97	LOS	GENERAL	PUMPS 1/2	UNMARKED FLANGES AND OTHER CONNECTORS	GENERAL	Y

TABLE 100
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TO BARGE DOCK, WEST OF TANK FARM

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9539	Q	V	L	57.6	100	LOS	RECYCLE LINE	PUMPS 1/2	OLD TANK MANIFOLD	BLOCKING VALVE	Y
9583	Q	V O/E	L	57.6	100	LOS	VENT RELEASE	PUMPS 1/2	VENT RELEASE	BLOCKING VALVE	Y
9990	Q	V O/E	L	57.6	100	LOS	DUAL FILTERS	PUMPS 1/2	FILTER #1 CLEANOUT VALVE	ABOVE FILTER #1	
9991	Q	V	L	57.6	100	LOS	DUAL FILTERS	PUMPS 1/2	BLOCKING VALVE TO FILTER	ABOVE FILTER #1	
9992	Q	V	L	57.6	100	LOS	DUAL FILTERS	PUMPS 1/2	BLOCKING VALVE TO FILTER	ABOVE FILTER #2	
9993	Q	V O/E	L	57.6	100	LOS	DUAL FILTERS	PUMPS 1/2	FILTER #2 CLEANOUT VALVE	ABOVE FILTER #2	
9584	Q	V O/E	L	57.6	100	LOS	DOCK FEEDING	PUMPS 1/2	LIGHT OIL BARGE LOADING LINE	CLEANOUT	Y
9585	Q	V O/E	L	57.6	100	LOS	DOCK FEEDING	PUMPS 1/2	LIGHT OIL BARGE LOADING LINE	BLIND	Y
9586	Q	V O/E	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/2	BLIND	BLIND	Y
9588	Q	V O/E	L	57.6	100	LOS	DOCK FEEDING	PUMPS 1/2	LIGHT OIL BARGE LOADING LINE	CLEANOUT	Y
9590	Q	V O/E	L	57.6	100	LOS	DOCK FEEDING	PUMPS 1/2	LIGHT OIL BARGE LOADING LINE	CLEANOUT	Y
9589	Q	V O/E	L	57.6	100	LOS	DOCK FEEDING	PUMPS 1/2	KEYSTONE RETURN LINE/CONT. WATER LINE	CLEANOUT	Y
9985	Q	V	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/2	1" CLEANOUT LINE	FIRST VALVE	Y
9986	Q	V O/E	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/2	1" CLEANOUT LINE	CLEANOUT VALVE	Y
9987	Q	V	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/3	MAIN BLOCKING VALVE TO STORAGE TANKS	BLOCKING VALVE	Y
9988	Q	V	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/4	SECONDARY BLOCKING VALVE TO TANKS 61 THRU 64	BLOCKING VALVE	Y
9989	Q	V	L	57.6	100	LOS	KEYSTONE L.O.	PUMPS 1/5	SECONDARY BLOCKING VALVE TO TANKS 59 AND 60	BLOCKING VALVE	Y
9591	A	V	L	57.6	100	LOS	KEYSTONE L.O.	EAST SIDE	KEYSTONE RETURN LINE/CONT. WATER LINE	BLOCKING-DTM	DTM
9594	A	V	L	57.6	100	LOS	KEYSTONE L.O.	EAST SIDE	KEYSTONE RETURN LINE/CONT. WATER LINE	BLOCKING-DTM	DTM
9592	A	V	L	57.6	100	LOS	DOCK FEEDING	EAST SIDE	LIGHT OIL BARGE LOADING LINE	BLOCKING-DTM	DTM
9593	A	V	L	57.6	100	LOS	DOCK FEEDING	EAST SIDE	LIGHT OIL BARGE LOADING LINE	BLOCKING-DTM	DTM
	A,V,O	C(x17)	L	57.6	100	LOS	DOCK FEEDING	GENERAL	FLANGES ON LOADING/CONT. WATER LINES	LOADING LINE	Y
	A,V,O	C	L	57.6	100	LOS	DOCK FEEDING	EAST SIDE	FLANGES ON LOADING/CONT. WATER LINES	LOADING LINE-DTM	DTM

TABLE 101
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
TO BARGE DOCK, DOWNRIVER

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room				
9400	Q	V	L	57.6	101	BARGE	DOCK FEEDING	LOADING LINE	BLOCKING	Y
9401	Q	V	L	57.6	101	BARGE	DOCK FEEDING	LOADING LINE	INSTRUMENT AIR	Y
9402	Q	V	L	57.6	101	BARGE	DOCK FEEDING	LOADING LINE-V11	BLOCKING	Y
9403	Q	V	L	57.6	101	BARGE	DOCK FEEDING	LOADING LINE-V12	BLOCKING	Y
9404	Q	O/E	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	FLAME ARRESTOR	Y
9405	Q	V O/E	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-V1204	CLEANOUT	Y
9406	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	PRESSURE VALVE	Y
9407	A,V,O	C	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	PRESURE GAUGE	Y
9408	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-V9	BLOCKING	Y
9409	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-AV8	AUTO VALVE	Y
9410	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-AV7	AUTO VALVE	Y
9411	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-AV6	AUTO VALVE	Y
9412	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	CHECK VALVE	Y
9413	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	STEAM IN	Y
9414	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	CHECK VALVE	Y
9415	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE-AV4	AUTO VALVE	Y
9416	Q	V	G	80.0	101	BARGE	DOCK VAPOR COLLECTION SYSTEM	VAPOR RETURN LINE	BLOCKING	Y

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TABLE 103
REGISTRATION OF COMPONENTS IN BENZENE SERVICE
CONTAMINATED WATER DISCHARGE SYSTEM

Tag Identification	Monitoring Frequency	Component Type	Phase	Benzene Concentration	Figure #	Control Room					
9540	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	CLEANOUT	MAIN HEADER LINE	Y
9541	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	BLOCKING	MAIN HEADER LINE	Y
9542	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	CLEANOUT	MAIN HEADER LINE	Y
9543	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	RECIRCULATION	MAIN HEADER LINE	Y
9544	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	RECIRCULATION CLEANOUT	MAIN HEADER LINE	Y
9545	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	RECIRCULATION	MAIN HEADER LINE	Y
9546	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	BLOCKING	MAIN HEADER LINE	Y
9547	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	BLOCKING	P-2 INLET LINE	Y
9548	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	SAMPLE/DRAIN	P-2 INLET LINE	Y
9549	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	SAMPLE/DRAIN O/E VALVE	P-2 INLET LINE	Y
9550	M	P	L	7.5	103	LOS	CONTAM WATER	P-2	CONTAMINATED WATER DISCHARGE PUMP	PUMP SEAL	Y
9551	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE	P-2 DISCHARGE LINE	Y
9552	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE O/E	P-2 DISCHARGE LINE	Y
9553	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE O/E	P-2 DISCHARGE LINE	Y
9554	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	CHECK VALVE	P-2 DISCHARGE LINE	Y
9555	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	BLOCKING	P-2 DISCHARGE LINE	Y
9556	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	BLOCKING	P-1 INLET LINE	Y
9557	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	CLEANOUT	P-1 INLET LINE	Y
9566	Q	V	L	7.5	103	LOS	CONTAM WATER	SUCTION	STEAM INLET	P-1 INLET LINE	Y
9560	M	P	L	7.5	103	LOS	CONTAM WATER	P-1	CONTAMINATED WATER DISCHARGE PUMP	PUMP SEAL	Y
9561	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE BLOCKING	P-1 DISCHARGE LINE	Y
9562	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE DRAIN O/E VALVE	P-1 DISCHARGE LINE	Y
9563	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	SAMPLE DRAIN O/E VALVE	P-1 DISCHARGE LINE	Y
9564	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	PRESSURE VALVE	P-1 DISCHARGE LINE	Y
9565	A,V,O	C	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	PRESSURE GAUGE	P-1 DISCHARGE LINE	Y
9567	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	CHECK VALVE	P-1 DISCHARGE LINE	Y
9568	Q	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	BLOCKING	P-1 DISCHARGE LINE	Y
9569	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	CLEANOUT	P-1 DISCHARGE LINE	Y
9986	Q	V									
9570	A,V,O	C	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	PRESSURE SWITCH	MAIN HEADER LINE	Y
9576	A	V O/E	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	VENT RELIEF VALVE O/E	MAIN HEADER VENT	DTM
9577	UTM	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	BLOCKING	TANK LINES	UTM
9578	UTM	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	BLOCKING	TANK LINES	UTM
9579	UTM	V	L	7.5	103	LOS	CONTAM WATER	DISCHARGE	BLOCKING	TANK LINES	UTM
9587	Q	V O/E	L	7.5	103	LOS	CONTAM WATER	SUCTION	CLEANOUT	SUCTION BLIND LINE	Y
	A,V,O	C(x11)	L	7.5	103	LOS	CONTAM WATER	GENERAL	UNMARKED FLANGES ON CONTAMINATED WATER SYSTEM	GENERAL	Y