



# How to Produce Internal Cover Sheets for SPI Reports

Gene Haney  
Senior Engineering Systems Analyst

SPI Global Technical Users Forum  
June 5, 2011  
Orlando, Florida





# Sample Instrument Index Legend Sheet

## INSTRUMENT INDEX LIST OF ABBREVIATIONS

Location (Geographical Location of the Instrument)		Status		I/O Type (Signal Type)		Host System (Control System Associated with Instrument)	
ANLYZRSHLTR	Analyzer/Shelter	ABDN	Abandon in Place	AI	Analog Input	BMS	Burner Management System
CCR	Central Control Room	DEL	Delete	AO	Analog Output	BN	Bentley-Nevada System
CP	Control Panel	DEMO	Existing device - removed from service	DI	Digital Input	CRCS	UOP Control System for Regen
DCS	DCS	EXIST	Existing device - reused in place	DO	Digital Output	DCS	Distributed Control System
ELEC TRIM HTR	Electric Trim Heater	MOD	Existing device - modified	RTD	Resistance Temperature Device	FGS	Fire & Gas System
FG-LP	Fire and Gas Local Panel	NEW	New	SI	Serial Interface	MCC	Motor Control Center
FIELD	Field	NIS	Device not included in scope	SOFT	Soft Point - PCS	PLC	Vendor PLC
INCINPNL	Incinerator Panel	REL	Existing device - relocated & reused	T/C	Thermocouple Input	PSA	PSA Package
LOB	Local Operator Building	REPL	Existing device - replaced			SIS	Safety Instrumented System
LP	Local Panel	VEND	New - furnished by Vendor				
MCC	Motor Control Center						
ON VALVE	On valve						
PLC							
PURGE PNL	Purge Panel						
RIB	Remote Instrument Building						
RIE	Remote Instrument Enclosure						
RPLC	Remote PLC Panel						
SIH	Satellite Instrument House						
SIS	SIS Panel						
SRU PNL	SRU Control Panel						

0	19-MAY-11	ISSUED FOR CONSTRUCTION			OPL	JWG	MRM
Rev	Date	Description			By	Chk	Aprv



### INSTRUMENT INDEX LEGEND UNIT 100

CARTAGENA EXPANSION PROJECT  
Refinería de Cartagena S.A.

DOC. NO.: 166000-100-RP-IC02-0004

REV.: 0a






# Sample I/O Tabulation Report Cover Sheet

## I/O TABULATION FOR UNIT 100

HOST SYSTEM	I/O TYPE	QUANTITY
BN	AI	74
BN	RTD	87
FGS	AI	24
FGS	DI	12
FGS	DO	22
MCC	DI	4
MCC	RTD	48
PCS	AI	497
PCS	AI (PWRD)	11
PCS	AO	175
PCS	DI	53
PCS	DO	14
PCS	SI	1829
PCS	T/C	287
PLC	AI	54
PLC	DI	49
PLC	DO	16
PLC	DO (DRY)	8
PLC	SI	90
SIS	AI	152
SIS	DI	465
SIS	DO	216
SIS	DO (DRY)	6

						 <p><b>SUMMARY I/O LIST</b> UNIT 100</p> <p>CARTAGENA EXPANSION PROJECT Refinería de Cartagena S.A</p>
	01-JUN-11	ISSUED FOR DESIGN	ABC	DEF	GHJ	
Rev	Date	Description	By	Chk	Aprv	DOC. No.: 166000-100-RP-IC02-0005
						REV.: 0

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## Step 1:

Create custom PSR report with the following  
“From” clause as a minimum:

```
FROM  
PSR_STORAGE B,  
DRAWING C,  
UDF_DRAWING D
```



## Step 2:

Use drawing UDFs for the title block revision fields.

dwg_t	dwg_udf_c2	dwg_udf_c27	dwg_uc	dwg_uc	dwg_uc	dwg_uc	bitma
dwg_t	dwg_udf_c2	dwg_udf_c21	dwg_uc	dwg_uc	dwg_uc	dwg_uc	
dwg_t	dwg_udf_c1	dwg_udf_c15	dwg_uc	dwg_uc	dwg_uc	dwg_uc	
dwg_t	dwg_udf_c0	dwg_udf_c09	dwg_uc	dwg_uc	dwg_uc	dwg_uc	
dwg_t	dwg_udf_c0	dwg_udf_c03	dwg_uc	dwg_uc	dwg_uc	dwg_uc	
Rev	Date	Description	By	Chk	Appr	Client Appr	DOC.



## Step 3:

Use the Import Utility to load your cover sheet document into SPI, assigning the document type “Browser Report”; type ID “199”.



Import Link (table) - PSR\_Drawings

Source PSR_DOCS			Target DRAWING Definition: Default			
Name	Type	Length	Source Name	Target Name	Type	Length
dwg_name	char	255		BMP FILE NAME	char	20
dwg_type_id	number			BMP FILE PATH	char	65
				CL APPR BY	char	20
				CL APPR DATE	date	7
				CL CK BY	char	20
				CL CK DATE	date	7
				CL ENGR BY	char	20
				CL ENGR DATE	date	7
				CURR REV NUM	number	22
				DWG COND1	char	2000
				DWG COND2	char	255
				DWG DESC	char	60
				DWG KEY1 ID	number	22
				DWG KEY2 ID	number	22
				DWG KEY3 ID	number	22
			'I/O TAB - UNIT 044'	<b>DWG NAME</b>	char	50
				DWG NUM	number	22
				DWG STYLE ID	number	22
				DWG TITLE1	char	40
				DWG TITLE2	char	40
				DWG TITLE3	char	40
			'199'	DWG TYPE ID	number	22
				<a href="#">FORMAT NAME/FORMAT ID</a>	char	50
				MERGE RELEASE FLG	char	1
				OUTPUT DWG FMT ID	number	22
				PARENT ID	number	22
				REF SUBJ DESC	char	40
				REPORT TYPE ID	number	22



## Step 4:

Load the cover page custom PSR reports in SPI.



PSR List

Description	Path	Udf C01	Udf C02	Udf C03	Udf C04	Udf
U005 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U005 Instrument Index Cover.psr	INDEX COVER - UNIT 005	166000-005-RP-IC02-0001	Aa	05-APR-11	
U005 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U005 Instrument Index Legend.ps	INDEX LEGEND - UNIT 005	166000-005-RP-IC02-0001	Aa	05-APR-11	
U005 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U005 Instrument Index Report.psr	INDEX - UNIT 005	166000-005-RP-IC02-0001	Aa	05-APR-11	
U005 - IO Report Cover						
U037 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U037 Instrument Index Cover.psr	INDEX COVER - UNIT 037	166000-037-RP-IC02-0001	Aa	16-MAR-11	
U037 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U037 Instrument Index Legend.ps	INDEX LEGEND - UNIT 037	166000-037-RP-IC02-0001	Aa	16-MAR-11	
U037 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U037 Instrument Index Report.psr	INDEX - UNIT 037	166000-037-RP-IC02-0001	Aa	16-MAR-11	
U037 - IO Report Cover						
U044 - Index Cover						
U044 - Index Legend						
U044 - Index Report						
U044 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U044 IO Tabulation Report.psr	I/O TAB - UNIT 044	166000-044-RP-IC02-			
U100 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U100 Instrument Index Cover.psr	INDEX COVER - UNIT 100	166000-100-RP-IC02-0004	0a	17-MAR-11	
U100 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U100 Instrument Index Legend.ps	INDEX LEGEND - UNIT 100	166000-100-RP-IC02-0004	0a	17-MAR-11	
U100 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U100 Instrument Index Report.psr	INDEX - UNIT 100	166000-100-RP-IC02-0004	0a	17-MAR-11	
U100 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U100 IO Tabulation Report.psr	I/O TAB - UNIT 100				
U102 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U102 Instrument Index Cover.psr	INDEX COVER - UNIT 102	166000-102-RP-IC02-0001	A		
U102 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U102 Instrument Index Legend.ps	INDEX LEGEND - UNIT 102	166000-102-RP-IC02-0001	A		
U102 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U102 Instrument Index Report.psr	INDEX - UNIT 102	166000-102-RP-IC02-0001	A	17-AUG-09	
U102 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U102 IO Tabulation Report.psr	I/O TAB - UNIT 102	166000-102-RP-IC02-0004	A		
U103 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U103 Instrument Index Cover.psr	INDEX COVER - UNIT 103				
U103 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U103 Instrument Index Legend.ps	INDEX LEGEND - UNIT 103				
U103 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U103 Instrument Index Report.psr	INDEX - UNIT 103				
U103 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U103 IO Tabulation Report.psr	I/O TAB - UNIT 103				
U107 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U107 Instrument Index Cover.psr	INDEX COVER - UNIT 107	166000-107-RP-IC02-0001	0	05-APR-11	
U107 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U107 Instrument Index Legend.ps	INDEX LEGEND - UNIT 107	166000-107-RP-IC02-0001	0	05-APR-11	
U107 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U107 Instrument Index Report.psr	INDEX - UNIT 107	166000-107-RP-IC02-0001	0	05-APR-11	
U107 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U107 IO Tabulation Report.psr	I/O TAB - UNIT 107				
U108 - Index Cover	S:\spi_rcsa\SPI_Support\Reports\U108 Instrument Index Cover.psr	INDEX COVER - UNIT 108	166000-108-RP-IC02-0002	0a	28-FEB-11	
U108 - Index Legend	S:\spi_rcsa\SPI_Support\Reports\U108 Instrument Index Legend.ps	INDEX LEGEND - UNIT 108	166000-108-RP-IC02-0002	0a	28-FEB-11	
U108 - Index Report	S:\spi_rcsa\SPI_Support\Reports\U108 Instrument Index Report.psr	INDEX - UNIT 108	166000-108-RP-IC02-0002	0a	28-FEB-11	
U108 - IO Report Cover	S:\spi_rcsa\SPI_Support\Reports\U108 IO Tabulation Report.psr	I/O TAB - UNIT 108	166000-108-RP-IC02-0001	0	31-AUG-09	

