Seminole Electric
COOPERATIVE, INC.
IN PARTNERSHIP WITH THOSE WE SERVE

May 2, 2003

Mr. Michael P. Halpin, P.E.
Florida Department of Environmental Protection
New Source Review Section
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: Seminole Generating Station, Units 1 and 2
Control System Replacement Project

Dear Mr. Halpin:

As requested in your April 24, 2003 letter, please find the enclosed information:

1. Block diagrams of control systems for Units 1 and 2 as they are now and would be after the replacement project is completed. The changes are identical for both units, but the controls for river water intake for both units is in the Unit 1 system as reflected in the diagrams.

2. A listing of transmitters, actuators and signal converters (M/P devices) that need to be replaced as part of this project because the existing ones would not be compatible with the new controls. We do not consider these listed pieces of equipment to be final control elements (FCE) such as the motors, pumps, soot blowers, pulverizers, burners, etc. described in your letter. As previously stated, and as evidenced by the attached listings, this project does not involve replacing any equipment that generates, affects or controls air emissions. The attached spreadsheets also contain the specifications for the existing equipment that the new equipment will, at a minimum, have to comply with. Since the replacement equipment has not been purchased, we are unable to provide specification sheets for the new equipment at this time.

16313 North Dale Mabry Highway P.O. Box 272000 Tampa, Florida 33688-2000
Telephone 813.963.0994 Fax 813.264.7906 www.seminole-electric.com

I hope these enclosures provide the information that you were requesting and provides the assurance that this controls replacement project will not affect air emissions and therefore not trigger any air permitting requirements. If you have any questions, please feel free to call me.

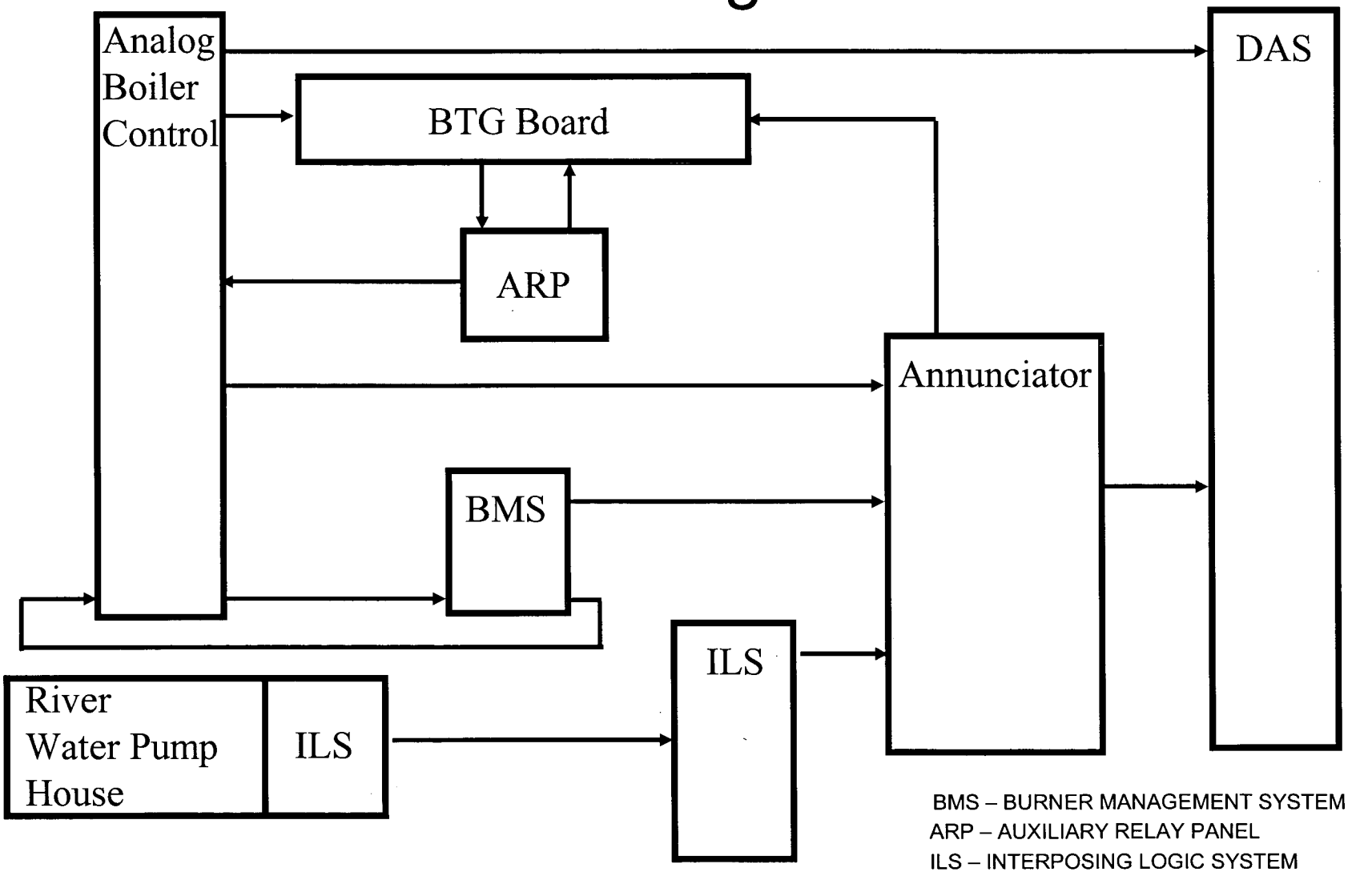
Sincerely,

M. P. Opalinski
Director of Environmental
and Engineering Services

Enclosure

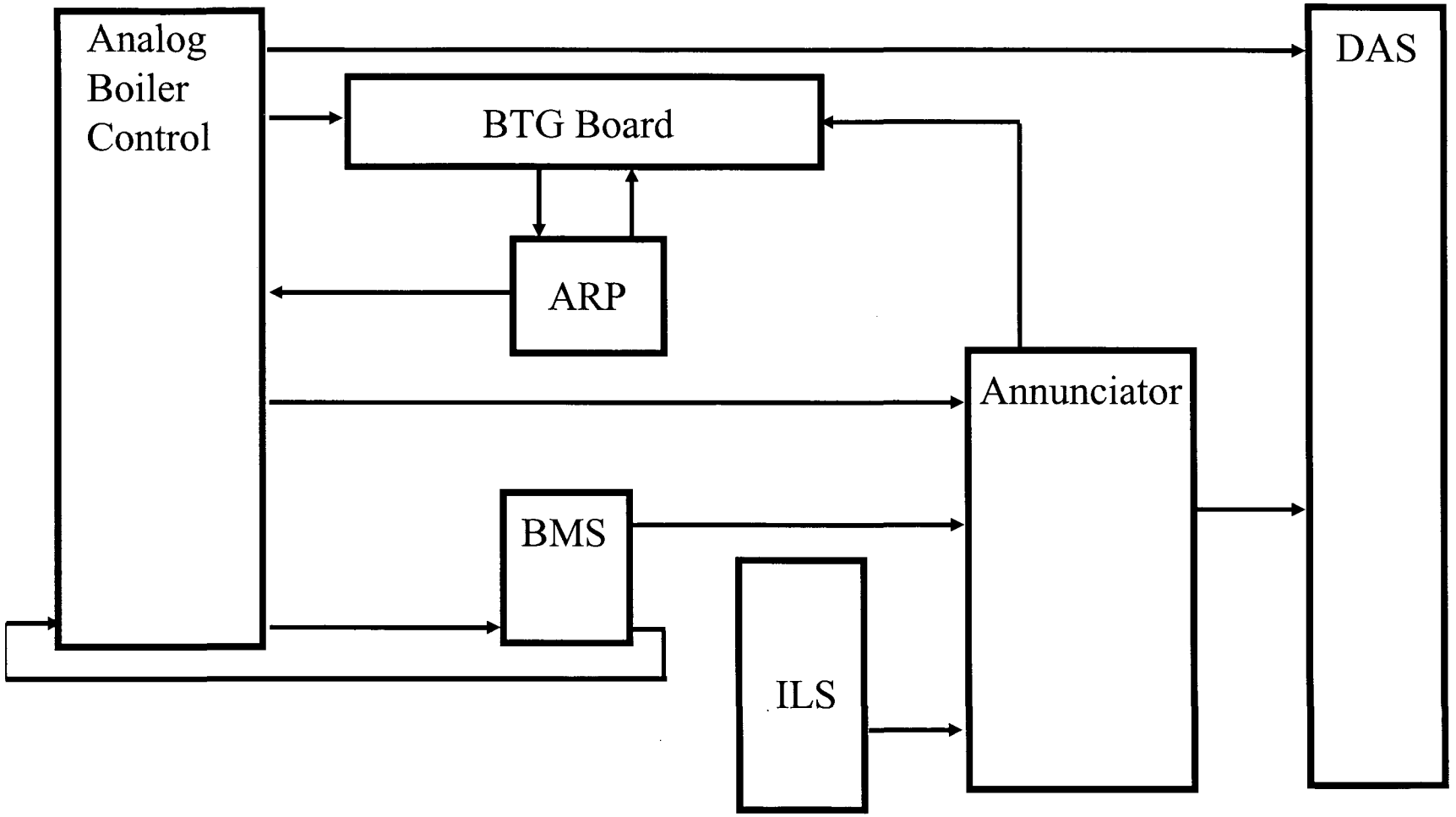
cc: Chris Kirts, DEP-NED

SGS Unit 1 – Existing Control Systems Block Diagram



BMS – BURNER MANAGEMENT SYSTEM
ARP – AUXILIARY RELAY PANEL
ILS – INTERPOSING LOGIC SYSTEM
DAS – DATA ACQUISITION SYSTEM
→ - HARD WIRED INTERFACE

SGS Unit 2 – Existing Control Systems Block Diagram



BMS – BURNER MANAGEMENT SYSTEM
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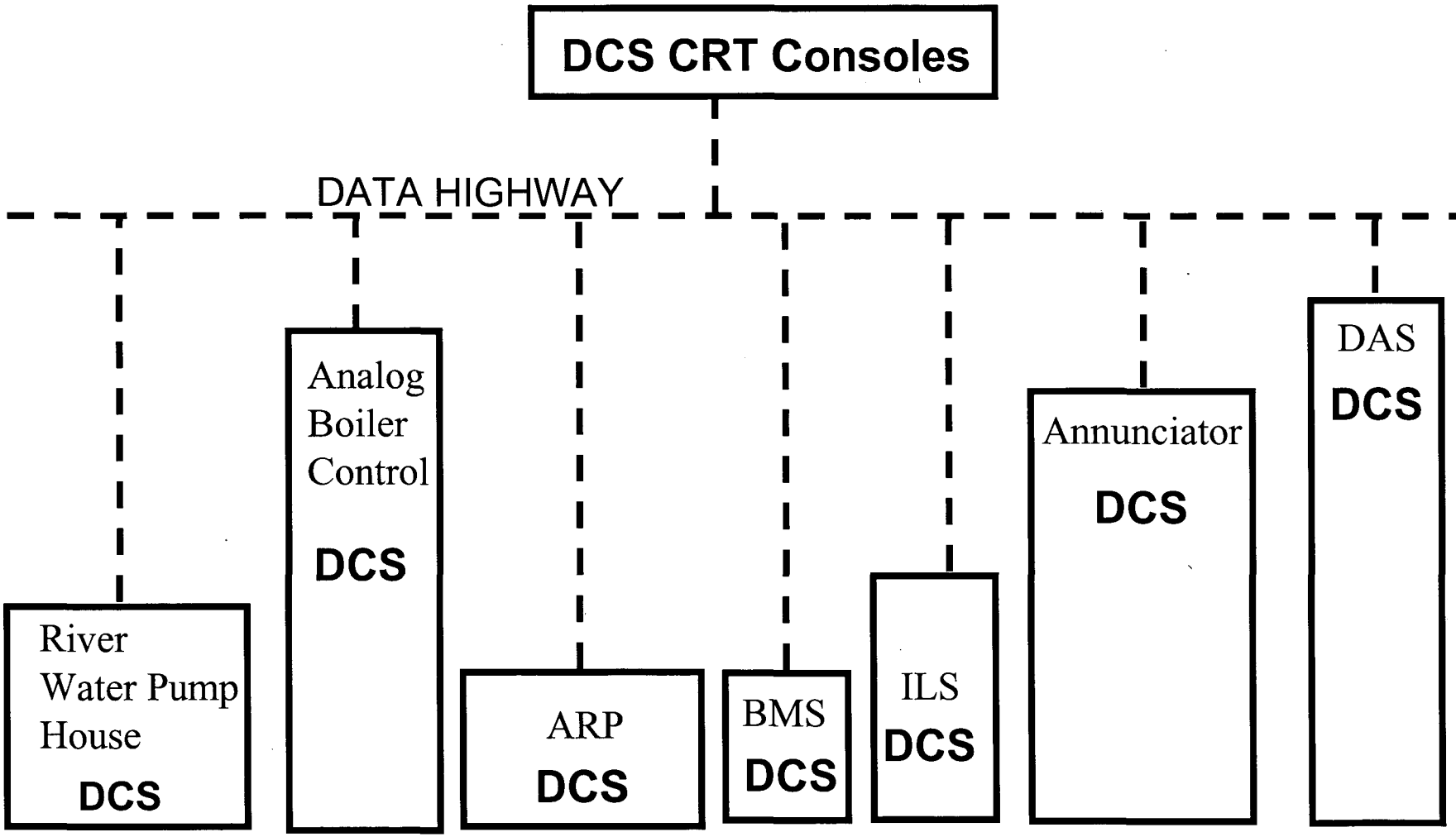
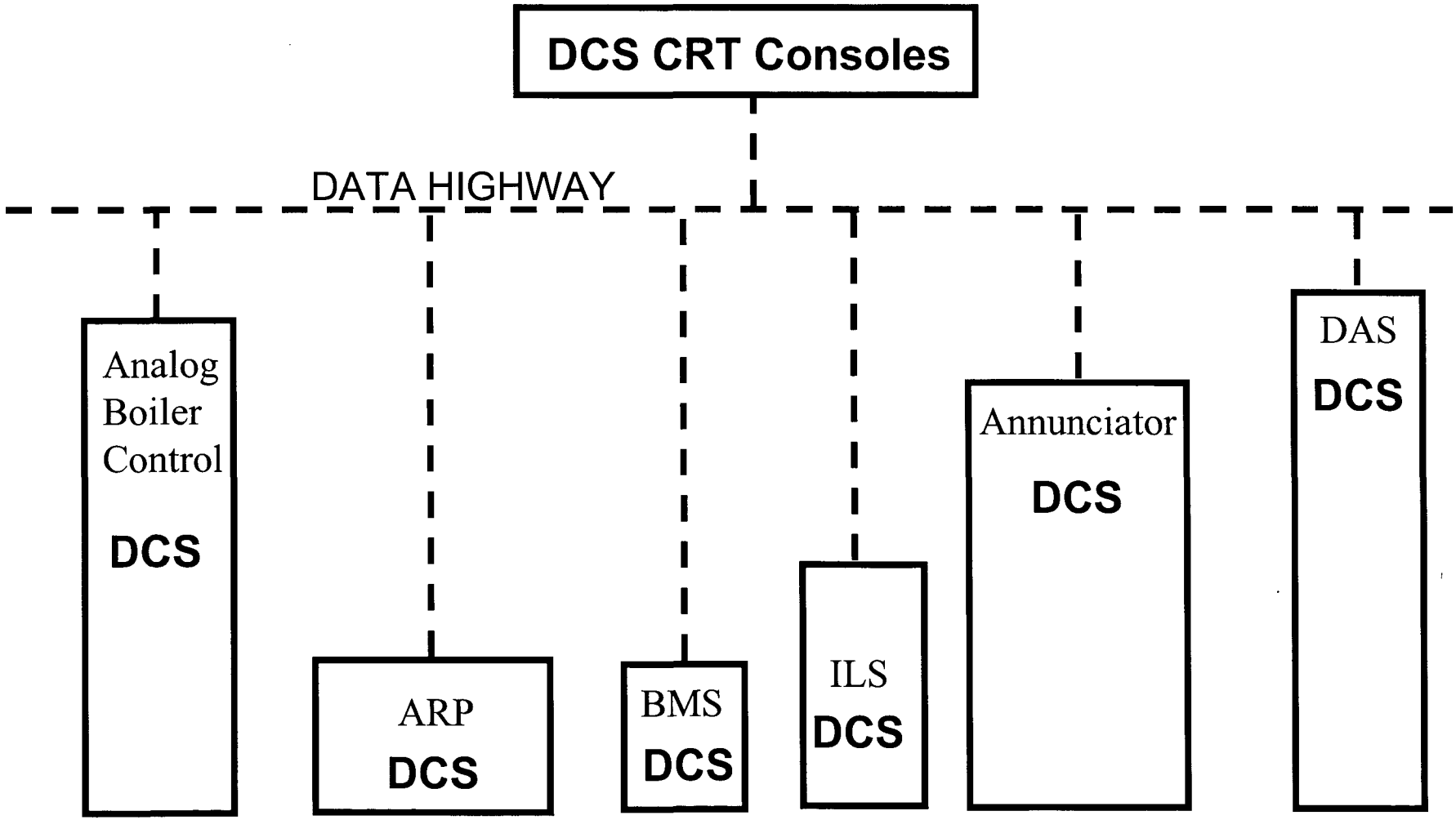
SGS Unit 1 – New Distributed Control System (DCS) Block Diagram



SGS Unit 2 – New Distributed Control System (DCS) Block Diagram



SGS - INTEGRATED CONTOL SYSTEM REPLACEMENT -
CONTROL DRIVE LIST

ITEM NO.	QTY	DESCRIPTION & SERVICE	EXISTING CATALOG NO.	RATED TORQUE FT-LB	SHAFT ROTATION	TRAVEL TIME SECONDS	MTC POSITION	MOTOR DETAILS			FEEDBACK FEATURES (NOTE 4)		
								CURRENT		SUPPLY	POSITION		Limit
								FL	LR		SLW	SENSOR	Switch
37	6	MILL HA DAMPER	11284-2211-2-208	425	120	20	R.H.	1.3	6.7	3 phase	2	NONE	4
38	6	MILL TA DAMPER	10265-60-G1	300	85	20	STD	0.6	0.6	1 phase	1	NONE	4
27	6	MILL SA DAMPER	10264-60-T-G1	75	85	40	STD	0.6	0.6	1 phase	1	NONE	4
30	2	REHEAT PASS DAMPER	11289-2211-2-208	4000	120	20	R.H.	5.1	19.0	3 phase	2	-	4
31	2	ECON PASS DAMPER	11288-2211-2-208	2500	120	20	R.H.	8.0	27.0	3 phase	2	-	4
32	2	FD BLADE PITCH	10264-60-T-??	75	85	40	STD	0.6	0.6	1 phase	1	-	4
34	36	MILL AUX AIR DAMPER	10264-60-T-G1-L2	75	80	40	STD	0.6	0.6	1 phase	1	-	4

NOTE: EXISTING SPECIFICATIONS LISTED ABOVE WILL SERVE AS BASIS FOR NEW EQUIPMENT PROCUREMENT

ABBREVIATIONS:

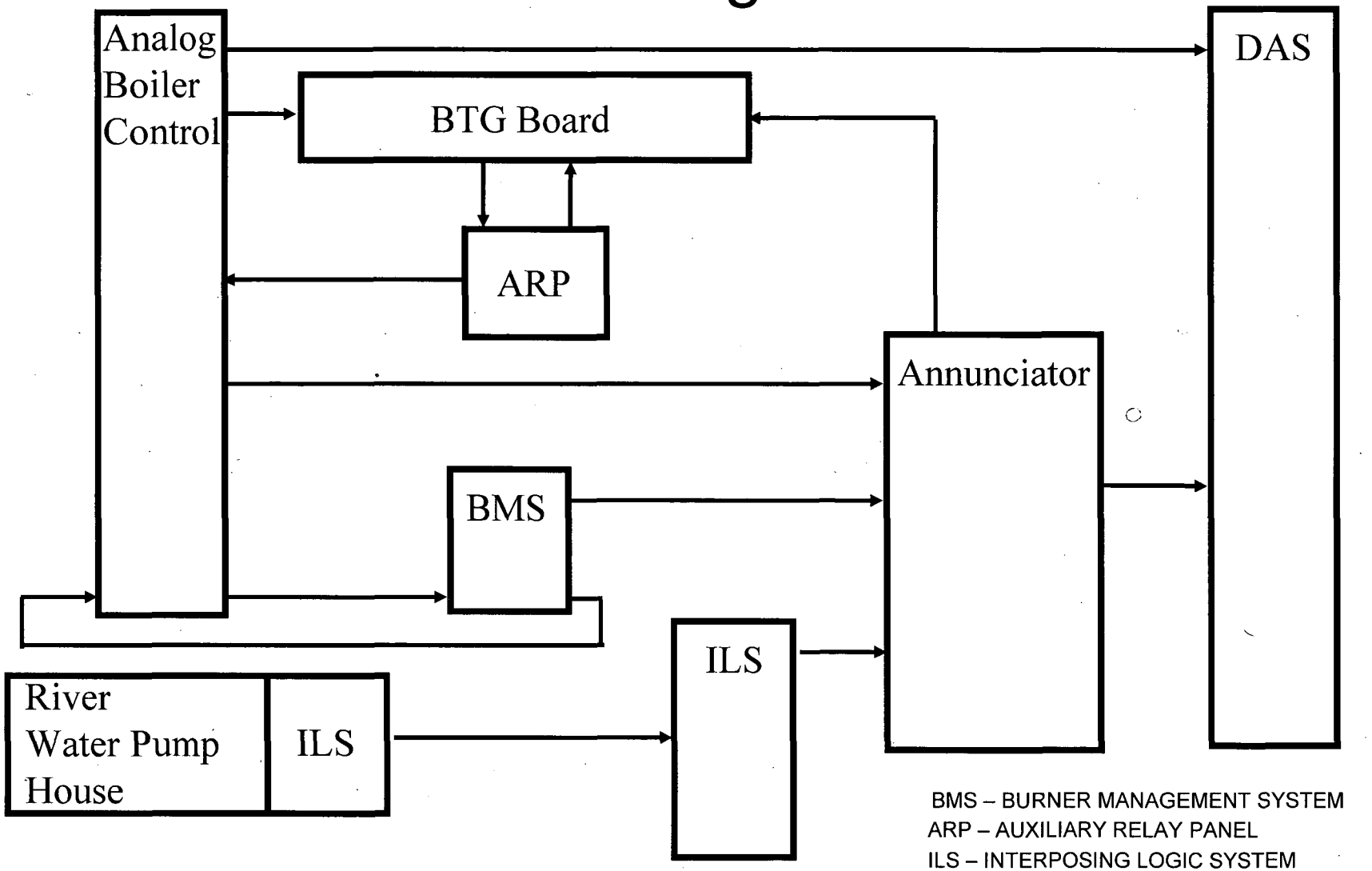
HA - HOT PRIMARY AIR
TA - TEMPERING AIR
SA - SECONDARY AIR
FD - FORCED DRAFT
AUX - AUXILIARY

DESCRIPTION & SERVICE	QTY	EXISITING CATALOG NO	INPUT	OUTPUT	TRAVEL TIME	(NOTE2) POSITION SLW	(NOTE2) POSITION SENSOR	LIMIT SWS
BFP RECIRC VALVE	3	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
MIN COND RECIRC FLOW	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND FLOW CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND MU CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND DRAW OFF CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND STOR TANK VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
AH TEMP CONTROL	2	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
SH SPRAY VALVES	2	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
RH SPRAY VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
AUX STEAM PRESS CONTROL VLV	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
NOTE: EXISTING SPECIFICATIONS LISTED ABOVE WILL SERVE AS BASIS FOR NEW EQUIPMENT PROCUREMENT								
ABBREVIATIONS:								
BFP - BOILER FEED PUMP								
AH - AIR HEATER								
SH - SUPER HEAT								
RH - REHEAT								
AUX - AUXILIARY								
VLV - VALVE								

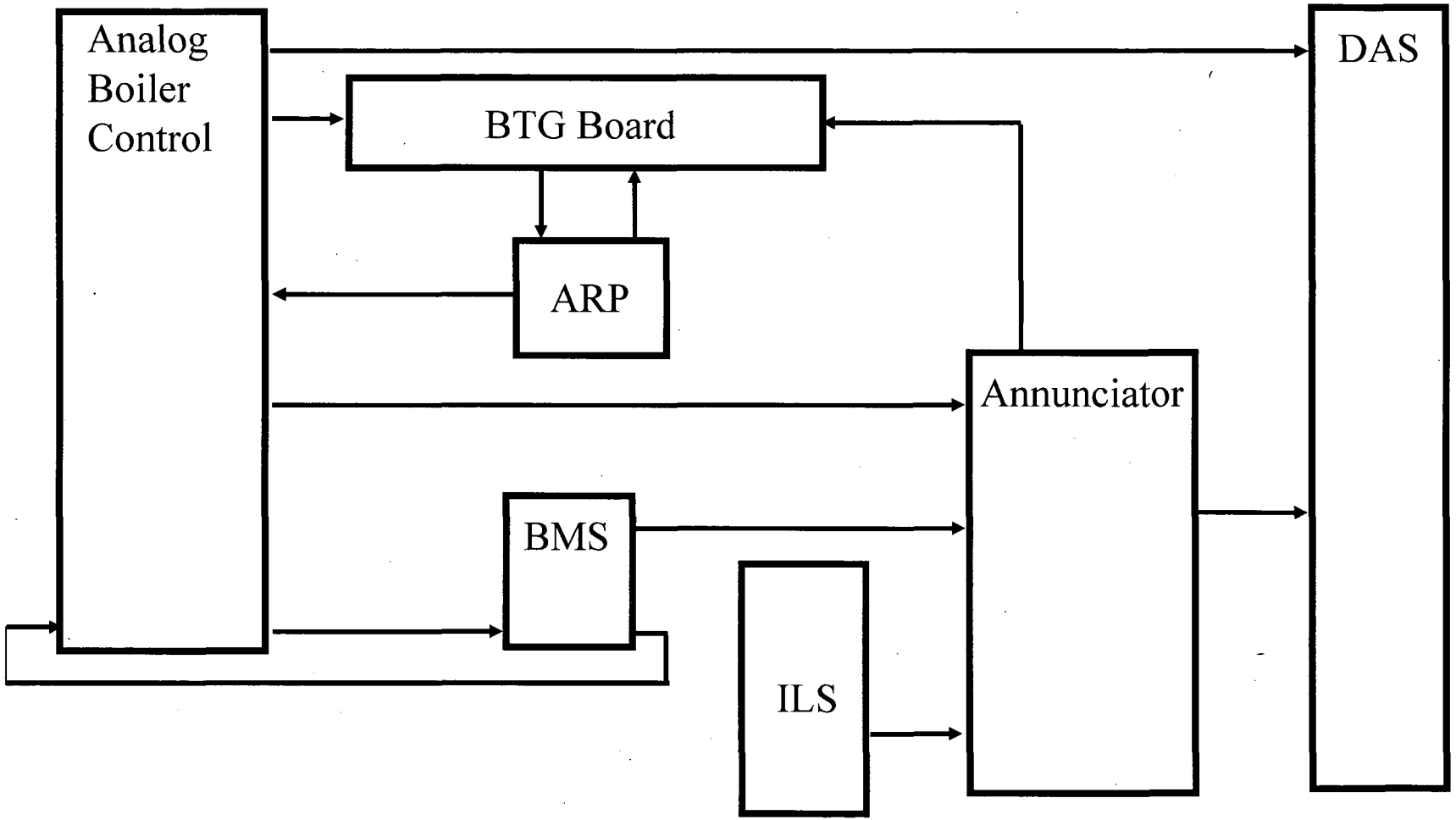
SGS - INTEGRATED CONTOL SYSTEM REPLACEMENT - TRANSMITTER LIST

DESCRIPTION & SERVICE	QTY	EXISTING CATALOG NO.	CALIBRATED RANGE	OUTPUT (NOTE 3)
MILL SEAL AIR DP	6	470-314-23-49-600-200	0-6"	4-20mA
PRIMARY AIR DUCT PRESSURE	1	471-114-24-49-600-200	0-60" H_2O	4-20mA
STM HDR FLOW	1		(0-300,000#/HR)	
CONDENSATE PUMP MIN FLOW	1	470-314-25-49-600-200	0-100" H_2O	4-20mA
BFP SUCTION FLOW	1	470-314-25-49-600-200	(0-8,000 GPM)	4-20mA
SECONDARY AIR FLOW	2	1912-3-50-0-00.00-03.00-03.00-200	0-4" H2O	4-20mA
PRIMARY AIR FLOW	2	1912-3-50-0-00.00-05.00-05.00-200	0-5" H_2O	4-20mA
TEMPERING AIR FLOW	2	1912-3-50-0-00.00-03.00-03.00-200	0-3" H_2O	4-20mA
DEAERATOR STORAGE TANK LEVEL	1	470-314-23-49-600-200	+/- 7" H_2O	4-20mA
MILL FUEL LEVEL SOUTH END	5	1912-3-10-0-00.00-03.00-03.00-200	0-3" H_2O	0-40mA
CONDENSATE STORAGE TANK LEVEL	2	473-434-30-70-600-200	0-50 FT H_2O	0-40mA
CONDENSATE HOTWELL LEVEL	2	470-314-23-49-600-200	+/-7.5" H2O	4-20mA
AUX STM HDR	1	471-114-34-49-600-200	0-200PSIG	4-20mA
MILL FUEL LEVEL NORTH END	5	LATER	LATER	4-20mA
NOTE: EXISTING SPECIFICATIONS LISTED ABOVE WILL SERVE AS BASIS FOR NEW EQUIPMENT PROCUREMENT				
ABBREVIATIONS:				
AUX - AUXILIARY				
DP - DIFFERENTIAL PRESSURE				
STM - STEAM				
HDR - HEADER				

SGS Unit 1 – Existing Control Systems Block Diagram



SGS Unit 2 – Existing Control Systems Block Diagram



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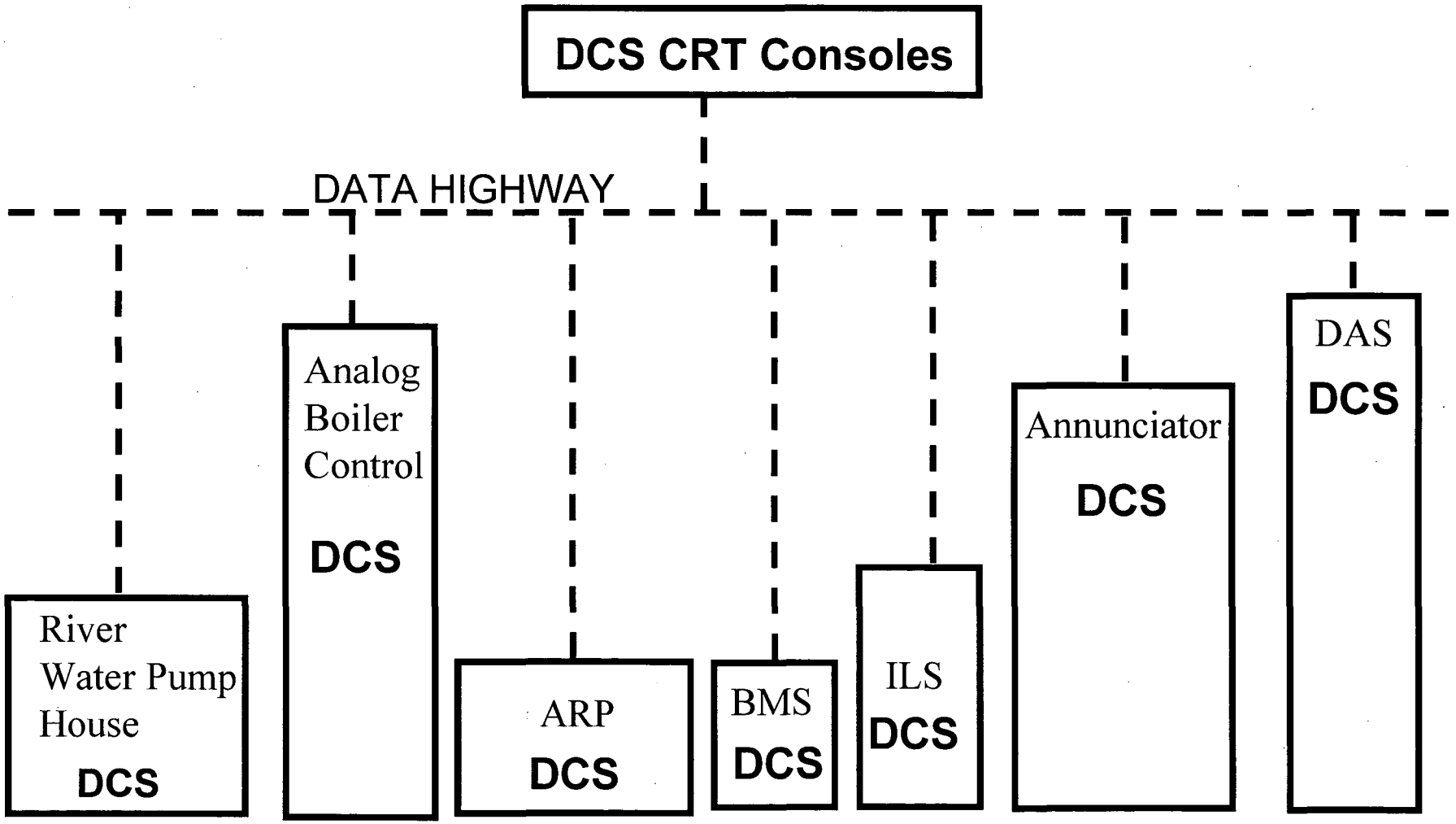
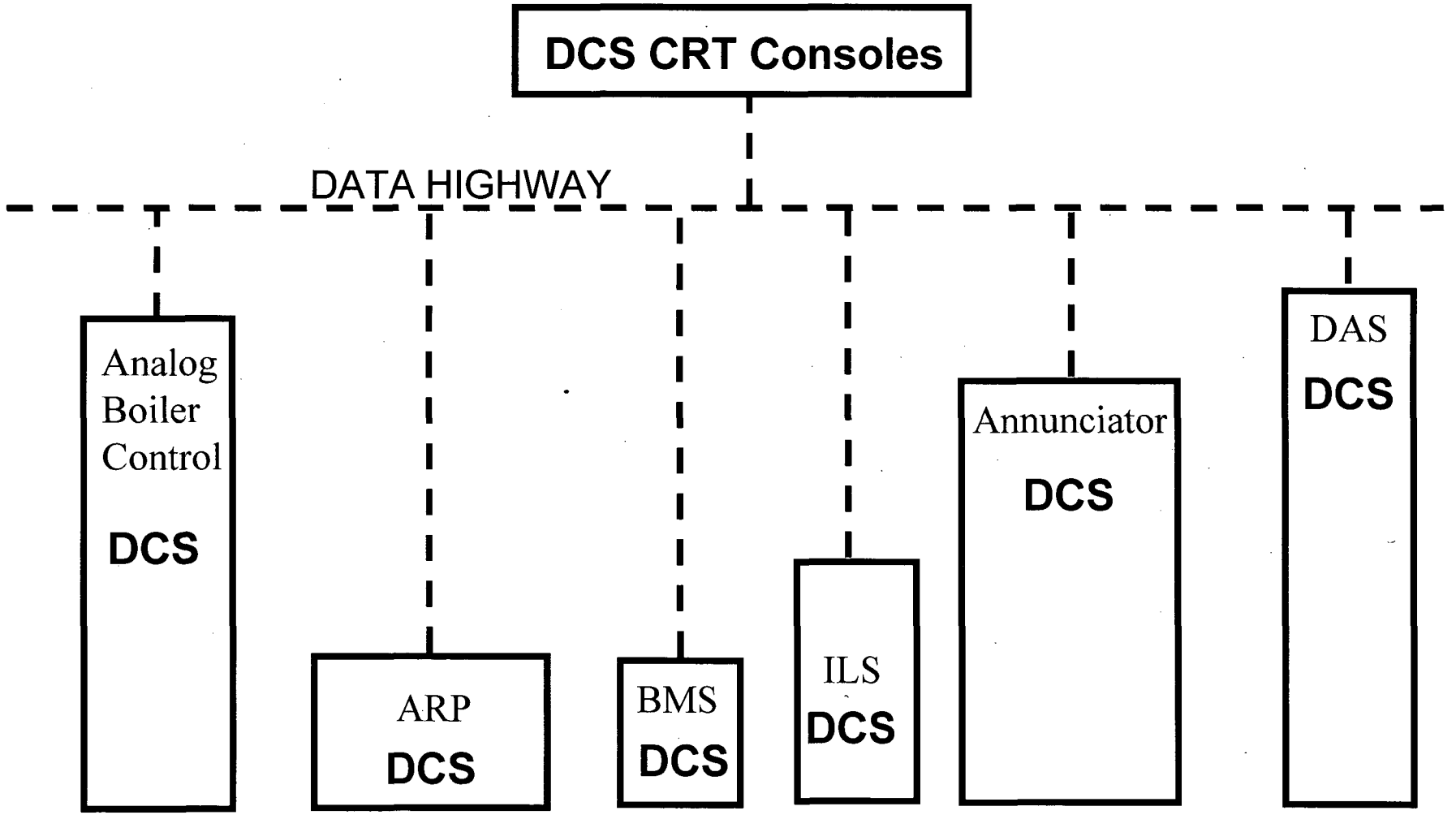
SGS Unit 1 – New Distributed Control System (DCS) Block Diagram



SGS Unit 2 – New Distributed Control System (DCS) Block Diagram



SGS - INTEGRATED CONTOL SYSTEM REPLACEMENT - CONTROL DRIVE LIST

ITEM NO.	QTY	DESCRIPTION & SERVICE	EXISTING CATALOG NO.	RATED TORQUE FT-LB	SHAFT ROTATION	TRAVEL TIME SECONDS	MTC POSITION	MOTOR DETAILS			FEEDBACK FEATURES (NOTE 4)		
								CURRENT		SUPPLY	POSITION		Limit
								FL	LR		SLW	SENSOR	Switch
37	6	MILL HA DAMPER	11284-2211-2-208	425	120	20	R.H.	1.3	6.7	3 phase	2	NONE	4
38	6	MILL TA DAMPER	10265-60-G1	300	85	20	STD	0.6	0.6	1 phase	1	NONE	4
27	6	MILL SA DAMPER	10264-60-T-G1	75	85	40	STD	0.6	0.6	1 phase	1	NONE	4
30	2	REHEAT PASS DAMPER	11289-2211-2-208	4000	120	20	R.H.	5.1	19.0	3 phase	2	-	4
31	2	ECON PASS DAMPER	11288-2211-2-208	2500	120	20	R.H.	8.0	27.0	3 phase	2	-	4
32	2	FD BLADE PITCH	10264-60-T-??	75	85	40	STD	0.6	0.6	1 phase	1	-	4
34	36	MILL AUX AIR DAMPER	10264-60-T-G1-L2	75	80	40	STD	0.6	0.6	1 phase	1	-	4

NOTE: EXISTING SPECIFICATIONS LISTED ABOVE WILL SERVE AS BASIS FOR NEW EQUIPMENT PROCUREMENT

ABBREVIATIONS:

HA - HOT PRIMARY AIR

TA - TEMPERING AIR

SA - SECONDARY AIR

FD - FORCED DRAFT

AUX - AUXILIARY

SGS - INTEGRATED CONTOL SYSTEM REPLACEMENT - SIGNAL CONVERTERS LIST

DESCRIPTION & SERVICE	QTY	EXISITING CATALOG NO	INPUT	OUTPUT	TRAVEL TIME	(NOTE2) POSITION SLW	(NOTE2) POSITION SENSOR	(NOTE2) LIMIT SWS
BFP RECIRC VALVE	3	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
MIN COND RECIRC FLOW	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND FLOW CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND MU CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND DRAW OFF CONTROL VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
COND STOR TANK VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
AH TEMP CONTROL	2	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
SH SPRAY VALVES	2	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
RH SPRAY VALVE	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
AUX STEAM PRESS CONTROL VLV	1	10973-11	120VAC	3-15PSI	38 SEC	X	-	2
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PRIMARY AIR DUCT PRESSURE	1	471-114-24-49-600-200	0-60" H_2O	4-20mA
STM HDR FLOW	1		(0-300,000#/HR)	
CONDENSATE PUMP MIN FLOW	1	470-314-25-49-600-200	0-100" H_2O	4-20mA
BFP SUCTION FLOW	1	470-314-25-49-600-200	(0-8,000 GPM)	4-20mA
SECONDARY AIR FLOW	2	1912-3-50-0-00.00-03.00-03.00-200	0-4" H2O	4-20mA
PRIMARY AIR FLOW	2	1912-3-50-0-00.00-05.00-05.00-200	0-5" H_2O	4-20mA
TEMPERING AIR FLOW	2	1912-3-50-0-00.00-03.00-03.00-200	0-3" H_2O	4-20mA
DEAERATOR STORAGE TANK LEVEL	1	470-314-23-49-600-200	+/- 7" H_2O	4-20mA
MILL FUEL LEVEL SOUTH END	5	1912-3-10-0-00.00-03.00-03.00-200	0-3" H_2O	0-40mA
CONDENSATE STORAGE TANK LEVEL	2	473-434-30-70-600-200	0-50 FT H_2O	0-40mA
CONDENSATE HOTWELL LEVEL	2	470-314-23-49-600-200	+/-7.5" H2O	4-20mA
AUX STM HDR	1	471-114-34-49-600-200	0-200PSIG	4-20mA
MILL FUEL LEVEL NORTH END	5	LATER	LATER	4-20mA
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