



Belews Creek Steam Station
 3195 Pine Hall Road
 Belews Creek, NC 27009
 336-445-0610
 336-669-2994

April 6, 2016

Permit No.	Scan Date	DIN
8504-INDUS- 8505-INDUS-	April 6, 2016	25907

North Carolina Department of Environmental Quality
 Division of Waste Management
 Solid Waste Section
 2090 U.S. Highway 70
 Swannanoa, North Carolina 28778

RECEIVED
April 6, 2016
 Solid Waste Section
 Asheville Regional Office

Attn: Mr. Larry Frost

Re: Landfill Leachate Force Main Testing Record Drawings
 Permit No.: 8504-INDUS-, Belews Creek Craig Rd Landfill
 Permit No.: 8505-INDUS-, Belews Creek FGD Residual Landfill
 Belews Creek Steam Station
 Stokes County
 Belews Creek, North Carolina 27009

Dear Mr. Frost,

The attached are record drawings and pressure test results for the successful Landfill Leachate Force Main Testing of the lines from the Belews Creek Craig Rd Landfill (Permit No. 8504-INDUS) and the FGD Residual Landfill (Permit No. 8505-INDUS).

Duke Energy is committed to excellent environmental stewardship and cooperation with the Division regarding the operation, maintenance, safety, and integrity of all of its facilities. We look forward to continuing to work with you regarding environmental concerns.

If there are any questions regarding this request, please contact me at (336) 445-0610.

Respectfully submitted,

Melonie Martin
 Environmental Services

cc (via e-mail): Ed Mussler, NCDEQ
 Shawn McKee, NCDEQ
 Evan Andrews, Duke Energy
 Will Harrison, Duke Energy
 Kimberlee Witt, Duke Energy
 Ed Sullivan, Duke Energy

Pipe Test Record

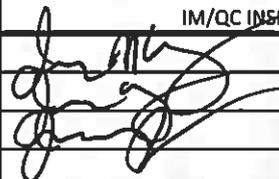
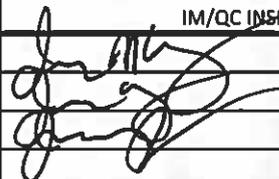
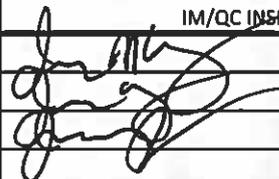
Project	FGD Leachate Force Main Testing	Job Number BC 131 / WO 9465654
Tag No.		Owner: Duke Energy Belews Creek
Description	Leachate Force Main Testing	Location: Belews Creek, NC
Sub System	Craig Road Landfill Leachate Force Main	Drawing: BC-1037-07-09 BC1037-07-13 BC6128-07.01 BC-6542.0202
Sub System	FGD Landfill Leachate Force Main	
		Date 3/7/16

Applicable documents: Scope of work . Excavation Permits, LOTO for all pumps and valves

Gauge and hydrostatic pump certification

LOTO # FGD-16-0059 & FGD-16-0061

1. Pre -Test Completion

Description of steps for setup of test.	IM/QC INSPECTION	DATE
Sign on LOTOs		3-7-16 8:35 AM
Fill lines from water truck		3-7-16 11:35 AM
Install and use hydrostatic pump to pressurize		3-7-16 3:15 PM

2. Test Data

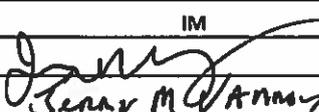
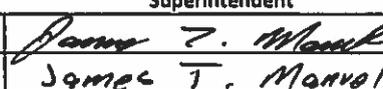
Test Type	Test Medium	Test Pressure	Hold points for Test	Hydrostatic Pump	Pressure Gauge Range
Hydrostatic	Hydro pump and water	70 PSI	See hold point log		
Time test started	Time test complete	Test Pressure	Pressure Hold points	Duration	sign off
3:20 PM	3:30 PM	25 PSI	25 PSI +/- 3 PSI	10 minutes	
3:40 PM	3:55 PM	50 PSI	50 PSI +/- 3 PSI	10 minutes	
4:00 PM	5:00 PM	80 PSI	75 PSI +/- 3 PSI	60 minutes	

Other comments :

4. Test Accepted and Released for Restoration

Test Supervisor: 	Date
QC/IM: 	Date 3-7-16
Owner/PM: 	Date 3-7-16

Remarks

Description	IM	Superintendent	QC/ Eng.
Signature			
Print Name	Jerry M. Arns	James T. Marvel	
Date	3-7-16	3-7-16	



RICE HYDRO
EQUIPMENT

CAUTIONS: QUICK REFERENCE

PS 41
44302940

SALE

CAUTIONS: QUICK REFERENCE
1. THE USER MUST READ THE USER MANUAL AND ALL SAFETY INSTRUCTIONS BEFORE USING THE EQUIPMENT.
2. THE USER MUST WEAR PROTECTIVE EQUIPMENT (EYE PROTECTION, GLOVES, ETC.) WHEN USING THE EQUIPMENT.
3. THE USER MUST NOT USE THE EQUIPMENT IN A HAZARDOUS ENVIRONMENT.
4. THE USER MUST NOT USE THE EQUIPMENT ON FLAMMABLE OR EXPLOSIVE MATERIALS.
5. THE USER MUST NOT USE THE EQUIPMENT ON ELECTRICAL WIRING OR OTHER ELECTRICAL EQUIPMENT.
6. THE USER MUST NOT USE THE EQUIPMENT ON PAINTED SURFACES.
7. THE USER MUST NOT USE THE EQUIPMENT ON CARPETING OR OTHER SOFT SURFACES.
8. THE USER MUST NOT USE THE EQUIPMENT ON GLASS OR OTHER BRITTLE MATERIALS.
9. THE USER MUST NOT USE THE EQUIPMENT ON SURFACES THAT ARE NOT DESIGNED FOR USE WITH THE EQUIPMENT.
10. THE USER MUST NOT USE THE EQUIPMENT ON SURFACES THAT ARE NOT DESIGNED FOR USE WITH THE EQUIPMENT.

Pipe Test Record

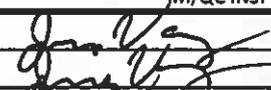
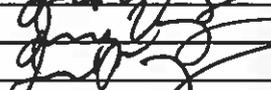
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Tag No.		Owner: Duke Energy Belews Creek
Description	Leachate Force Main Testing	Location: Belews Creek, NC
Sub System	Craig Road Landfill Leachate Force Main	Drawing: BC-1037-07-09 BC1037-07-13 BC6128-07.01 BC-6542.0202
Sub System	FGD Landfill Leachate Force Main	
		Date 3/7/16

Applicable documents: Scope of work . Excavation Permits, LOTO for all pumps and valves

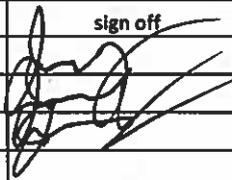
Gauge and hydrostatic pump certification

LOTO # FGD-16-0059 & FGD-16-0061

1. Pre -Test Completion

Description of steps for setup of test.	JM/QC INSPECTION	DATE
Sign on LOTOs		3-7-16 8:35 AM
Fill lines from water truck		3-7-16 11:35 AM
Install and use hydrostatic pump to pressurize		3-7-16 11:45 AM

2. Test Data

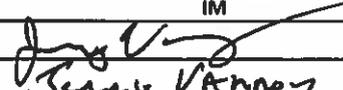
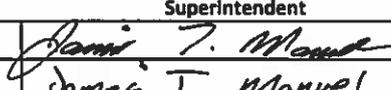
Test Type	Test Medium	Test Pressure	Hold points for Test	Hydrostatic Pump ID#	Pressure Gauge Range
Hydrostatic	Hydro pump and water	70 PSI	See hold point log		
Time test started	Time test complete	Test Pressure	Pressure Hold points	Duration	sign off
1:30 PM	1:45 PM	25 PSI	25 PSI + 3 PSI	10 minutes	
1:45 PM	2:00 PM	50 PSI	50 PSI + 3 PSI	10 minutes	
2:08 PM	3:08 PM	80 PSI	75 PSI + 3 PSI	60 minutes	

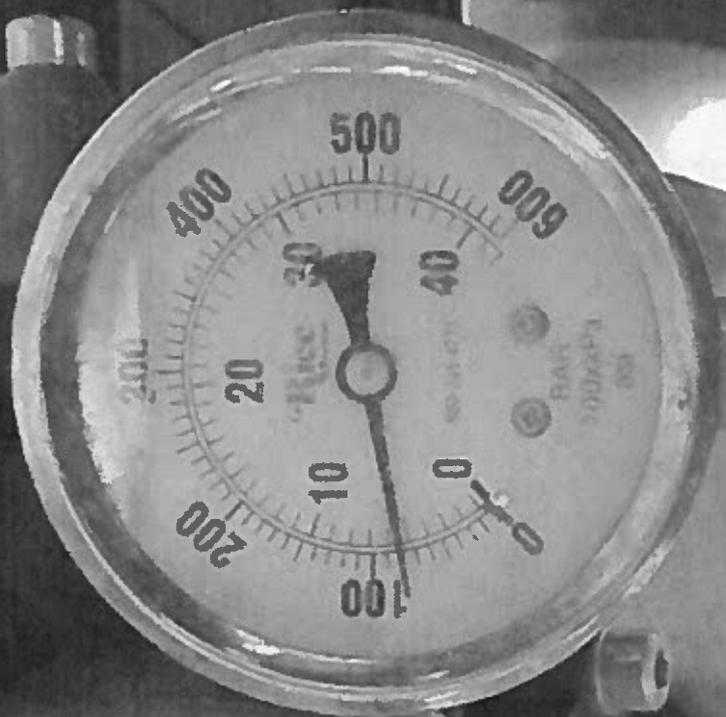
Other comments: Check Valve in Pit Leaking AT Center Section
Shut off Gate Valve Before Check Valve

4. Test Accepted and Released for Restoration

Test Supervisor: 	Date
QC/IM: 	Date 3-7-16
Owner/PM: 	Date 3/7/16

Remarks

Description	IM	Superintendent	QC/ Eng.
Signature			
Print Name	James T. Manuel	James T. Manuel	
Date	3-7-16	3-7-16	

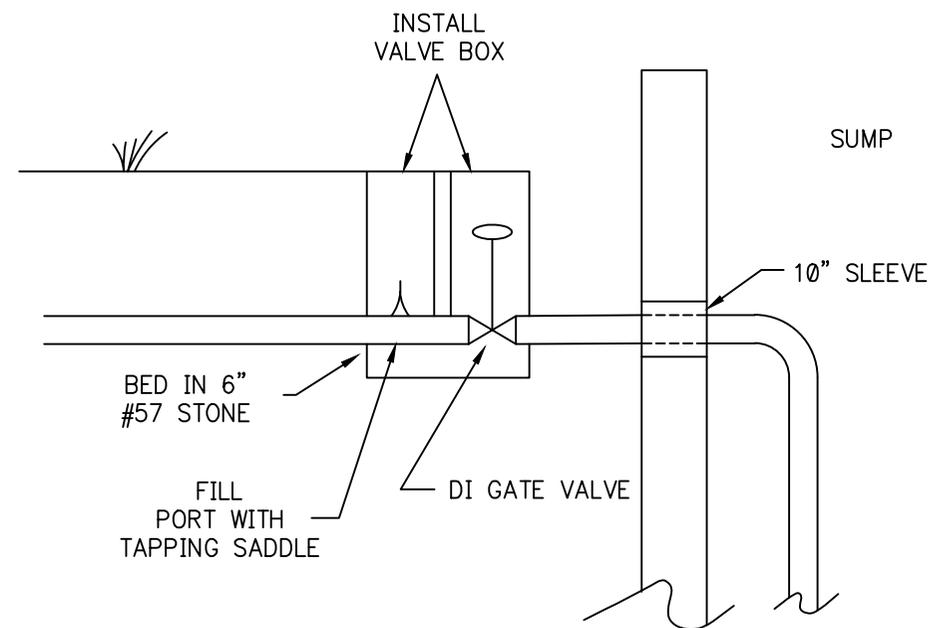
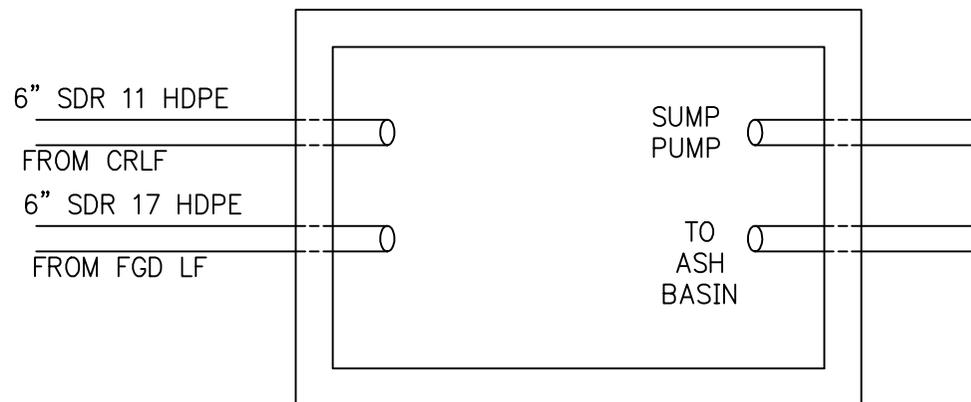


44305830
RPM max 550
max 40 bar
APS 41
611400900 SERIES

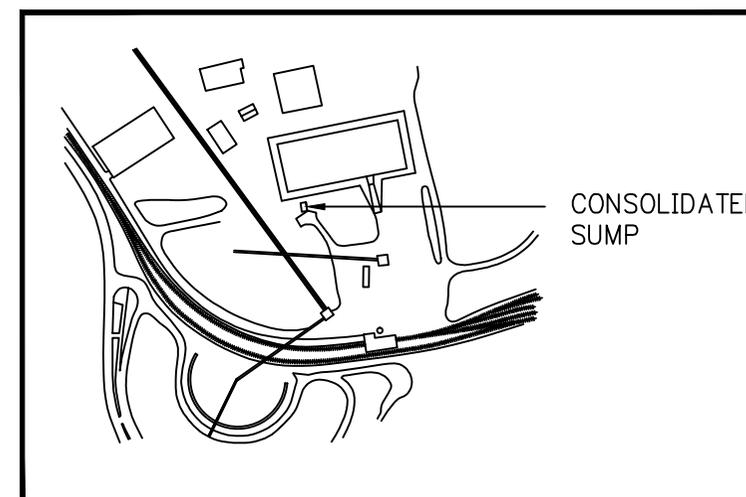
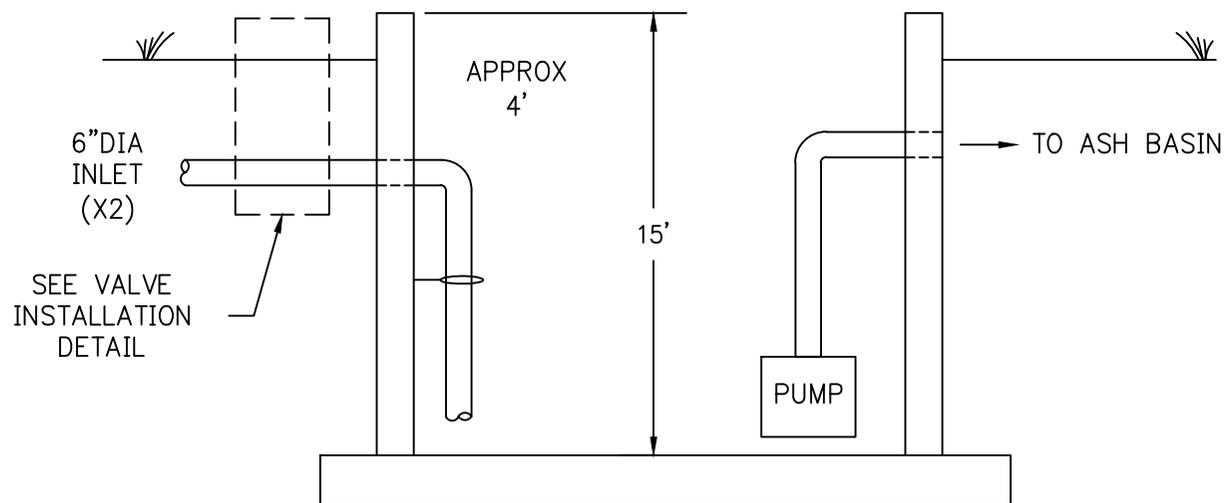
CAUTION
RICE HYDRO
41139

* BCSS CONDENSATE SUMP
SMP-45000-A
(NTS)

* COMMONLY REFERRED TO AS THE
CONSOLIDATED SUMP.

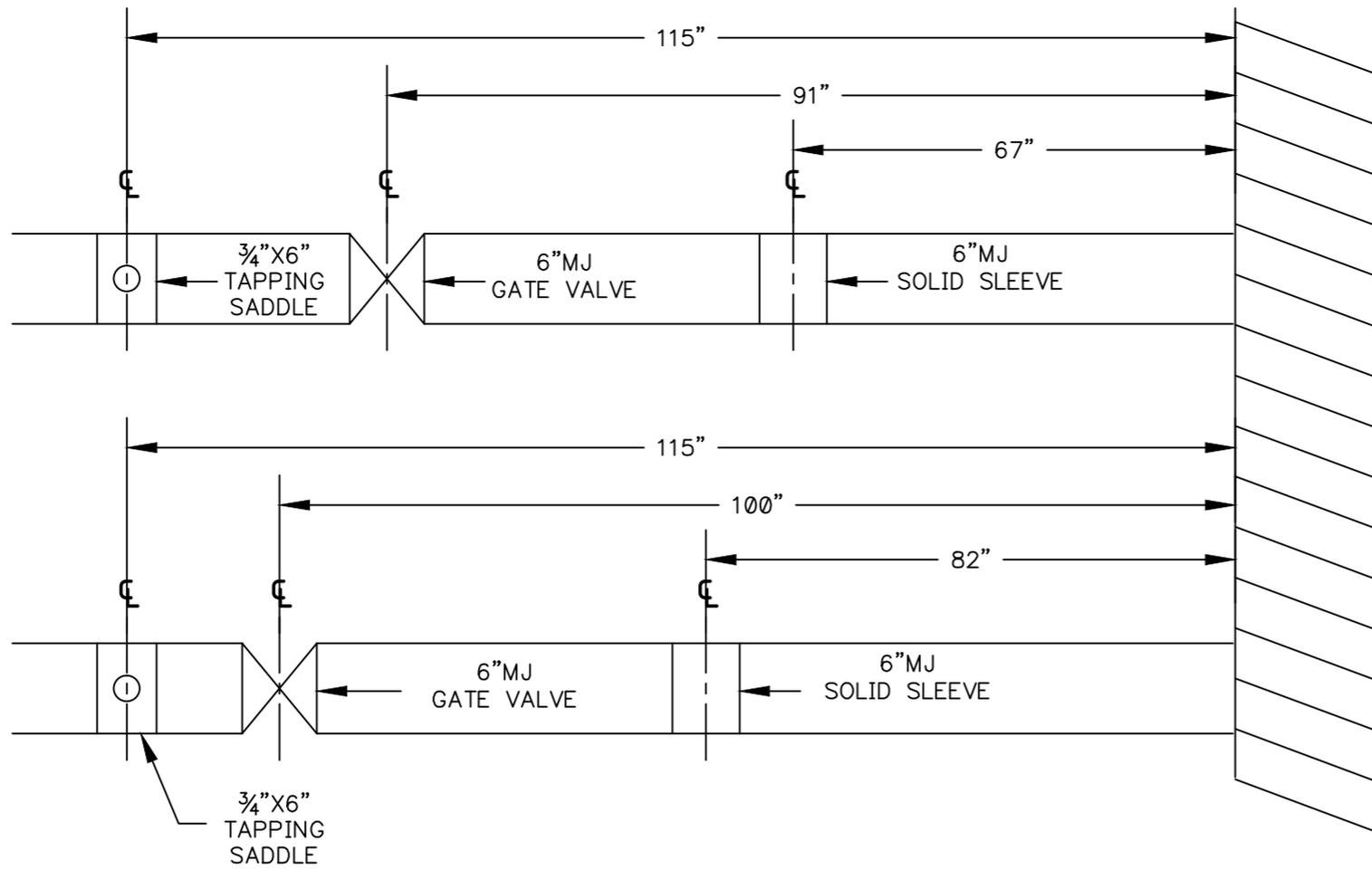


VALVE INSTALLATION DETAIL

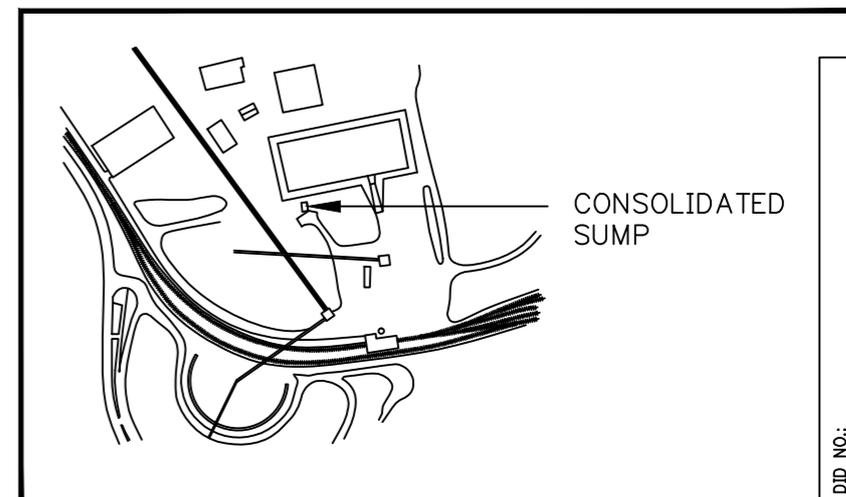


DID NO.: BCSS-000-M000001-SH1.DWG

						CONTRACTOR/VENDOR INFORMATION VENDOR'S LOGO, NAME, ADDRESS, TELEPHONE NUMBER AND ANY REFERENCE NUMBERS IN SPACE ABOVE. ALL DRAWINGS TO BE PRODUCED IN AUTOCAD RELEASE 2000 OR LATER.		DUKE ENERGY. CAROLINAS REGION DUKE ENERGY CAROLINAS REGION, INC. FOSSIL HYDRO OPERATIONS		FACILITY: BCSS UNIT: 000 SYSTEM: NONE SCALE: NONE		PROJ NO: EC NO: W.O. NO: PLOT: 1=1		TITLE: BC 131 LEACHATE FORCE MAIN VALVE INSTALLATION DWG NO: M000001 SIZE: ANSI-B SHEET: 1 of 1 REV: 0	
0	RECORD DRAWING	MD													
REV	DESCRIPTION	DRAWN	CHKD	APPRVD	DATE										



PLAN VIEW



DID NO.: BCSS-000-M000001-SH2.DWG

						CONTRACTOR/VENDOR INFORMATION DUKE ENERGY CAROLINAS REGION FOSSIL HYDRO OPERATIONS		FACILITY: BCSS UNIT: 000 SYSTEM: NONE		PROJ NO: EC NO: W.O. NO: PLOT: 1=1		TITLE: BC 131 LEACHATE FORCE MAIN VALVE INSTALLATION DWG NO: M000001 SIZE: ANSI-B SHEET: 2 of		REV: 0 VAULT CODE:	
0	RECORD DRAWING	MD				VENDOR'S LOGO, NAME, ADDRESS, TELEPHONE NUMBER AND ANY REFERENCE NUMBERS IN SPACE ABOVE. ALL DRAWINGS TO BE PRODUCED IN AUTOCAD RELEASE 2000 OR LATER.		THIS DRAWING IS THE PROPERTY OF DUKE ENERGY CAROLINAS REGION, INC. AND IS NOT TO BE REPRODUCED OR USED FOR ANY PURPOSE EXCEPT AS SPECIFIED BY DUKE ENERGY CAROLINAS REGION, INC.		SCALE: NONE		SHEET: 2 of		REV: 0	
REV	DESCRIPTION	DRAWN	CHKD	APPRVD	DATE										