

## Vogle PEmails

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**From:** Dixon-Herrity, Jennifer  
**Sent:** Wednesday, November 14, 2018 8:50 AM  
**To:** Chamberlain, Amy Christine  
**Cc:** Aughtman, Amy G.; Sparkman, Wesley A.; Vogtle PEmails; Patel, Chandu  
**Subject:** RE: LAR Complexity Binning  
**Attachments:** Voglte LAR Binning and Staff Hours.xlsx

Thank you – here is the data we had said we would share.

Jen

Jennifer L. Dixon-Herrity  
Chief, Licensing Branch 4  
Division of New Reactor Licensing  
Office of New Reactors  
301-415-2967

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**From:** Chamberlain, Amy Christine [mailto:ACCHAMBE@southernco.com]  
**Sent:** Tuesday, November 13, 2018 5:58 PM  
**To:** Dixon-Herrity, Jennifer <Jennifer.Dixon-Herrity@nrc.gov>; Patel, Chandu <Chandu.Patel@nrc.gov>  
**Cc:** Aughtman, Amy G. <AGAUGHTM@SOUTHERNCO.COM>; Sparkman, Wesley A. <WASPARKM@southernco.com>  
**Subject:** [External\_Sender] LAR Complexity Binning

Hi Jennifer,

As we discussed last week, attached is the LAR complexity level for all of the SNC LARs approved since 2017. Please let me know if there are questions and if you could share your detail information so we can compare the differences, and look for lessons learned.

Thanks,

***Amy Chamberlain, P.E.***

**Licensing Supervisor**

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**Hearing Identifier:** Vogtle\_COL\_Docs\_Public  
**Email Number:** 389

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**Subject:** RE: LAR Complexity Binning  
**Sent Date:** 11/14/2018 8:50:28 AM  
**Received Date:** 11/14/2018 8:50:37 AM  
**From:** Dixon-Herrity, Jennifer

**Created By:** Jennifer.Dixon-Herrity@nrc.gov

**Recipients:**

"Aughtman, Amy G." <AGAUGHTM@SOUTHERNCO.COM>

Tracking Status: None

"Sparkman, Wesley A." <WASPARKM@southernco.com>

Tracking Status: None

"Vogtle PEmails" <Vogtle.PEmails@nrc.gov>

Tracking Status: None

"Patel, Chandu" <Chandu.Patel@nrc.gov>

Tracking Status: None

"Chamberlain, Amy Christine" <ACCHAMBE@southernco.com>

Tracking Status: None

**Post Office:** BL0PR0901MB2979.namprd09.prod.outlook.com

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1235	11/14/2018 8:50:37 AM
Voglte LAR Binning and Staff Hours.xlsx		26931
image001.gif	2074	

**Options**

**Priority:** Standard

**Return Notification:** No

**Reply Requested:** No

**Sensitivity:** Normal

**Expiration Date:**

**Recipients Received:**

Type	Title	VEGP Amend No.	VEGP LAR
License Amendment & Exemption	Passive Core Cooling System (PXS) Design Changes To Address Potential Gas Intrusion	55	16-004
License Amendment & Exemption	Tier 1 Editorial and Consistency Changes	56*	16-008
License Amendment & Exemption	Radiologically Controlled Area Ventilation System (VAS) Design Changes	57*	15-011
License Amendment & Exemption	Fire Pump Head and Diesel Fuel Day Tank Changes	58	16-014
License Amendment & Exemption	Column Line N Wall ITAAC Dimension Change	59	16-003
License Amendment & Exemption	Qualified Data Processing System and Safety Display	60	16-020
License Amendment & Exemption	Containment Hydrogen Igniter	61*	15-003
License Amendment & Exemption	Automatic Depressurization System (ADS) Stage 2, 3 & 4 Valve Flow Area Changes and Clarifications	62	16-012
License Amendment & Exemption	Dimension Changes for Debris Shield above Containment Recirculation Screens	63	16-013
License Amendment	Addition of Density Compensation to Reactor Trip System (RTS) Reactor Coolant Flow Signal (TSR)	65	16-007
License Amendment & Exemption	Relocation of Air Cooled Chiller Pump 3, VWS-MP-03	64*	15-018
License Amendment & Exemption	Nuclear Instrumentation System Excore Detector Surface Material Inspection Clarification	66*	16-010
License Amendment & Exemption	Changes to Tier 1 Design Reliability Assurance Program (D-RAP) Table	67	16-017
License Amendment	Column Line 7.3 Wall Reinforcement Area Change (Vogtle Unit 3 only)	68	16-024
License Amendment & Exemption	IDS Fuse Location Panel Additions (2016 ITAAC)	69/68	16-022
License Amendment	Incorporate Revisions to WCAP-17179 in UFSAR Appendix 7A	70/69	16-021
License Amendment	PMS Logic Changes for Source Range Flux Doubling (TSR)	71/70	16-006
License Amendment & Exemption	PXS Condensate Return	72/71	16-026
License Amendment & Exemption	Changes to Radwaste and Annex Building Layout	73/72*	13-019
License Amendment	Emergency Plan Integration	74/73	15-016
License Amendment	Structural Design of Auxiliary Building Floors	75/74	16-009

License Amendment	Classification of Nonsafety-Related Instrumentation	76/75	16-029
License Amendment	Proposed Emergency Action Levels	77/76*	16-002
License Amendment & Exemption	Boric Acid Storage Tank Suction Point ITAAC Changes	78/77*	16-028
License Amendment	Update of Common Qualified (Common Q) Platform Software Program Manual and Topical Report	79/78	15-017
License Amendment	NDE for Welds of Stainless Steel Couplers to Embedment Plates - lead	80/79	16-016
License Amendment & Exemption	In Containment Refueling Water Storage Tank (IRWST) Volume Changes - lead	81/80*	17-002
License Amendment	Containment Internal Floor Module Connections	82/81	15-012
License Amendment	Pressurizer Surge Line Testing	83/82	16-011
License Amendment & Exemption	Hydrogen Venting from Passive Core Cooling System (PXS) Compartments	84/83	17-003
License Amendment & Exemption	ITAAC Consolidation (2017 ITAAC)	85/84	17-006
License Amendment	NDE for Welds of Carbon Steel Couplers to Embedment Plates at VEGP	86/85	16-027
License Amendment & Exemption	Standardization of Instrumentation Setpoint Nomenclature (TSR)	87/86	17-004
License Amendment & Exemption	Consistency Update to the Raceway Separation Requirements in the Main Control Room and Remote Shutdown Room (RSR)	88/87	17-007
License Amendment & Exemption	Slab Thickness Changes between Column Lines I to J-1 and 2 to 4 at Elevation 153'-0"	89/88	16-019
License Amendment	Engineered Safety Features Actuation Changes for Containment Vacuum Relief	90/89	17-005
License Amendment & Exemption	ADS and IRWST Injection Block (TSR)	91/90	16-018
License Amendment & Exemption	Fire Protection System (FPS) Piping That Must Remain Functional Following a Safe Shutdown Earthquake (SSE)	92/91	17-013
License Amendment & Exemption	Central Chilled Water System (VWS) ITAAC and High Capacity Subsystem Changes	93/92	17-015
License Amendment & Exemption	Clarification of Protection and Safety Monitoring System (PMS) Interdivisional Cables in Auxiliary Building Fire Areas	94/93	17-011
License Amendment & Exemption	Emergency Planning ITAAC Revisions	95/94	17-014
License Amendment & Exemption	Addition of Two Turbine Building Sump Pumps*	96/95*	15-019

License Amendment & Exemption	Clarification of Raceway and Raceway System Designations	97/96	17-008
License Amendment & Exemption	Containment Air Filtration Exhaust Rooms West Walls Removal	98/97	17-017
License Amendment & Exemption	Addition of SGS Thermal Relief Valves	99/98	17-012
License Amendment & Exemption	Addition of IRWST Lower Narrow Range Level Instrumentation	100/99	16-032
License Amendment	Auxiliary Building Roof Rebar Configuration Design	101/100*	17-016
License Amendment	Add RTS on Safeguards Actuation Signal Time Delay and Other Misc TS Changes	102/101	17-020
License Amendment & Exemption	Resolution of Auxiliary Building Wall Thickness and Description Inconsistencies	103/102	16-033
License Amendment & Exemption	Addition of a Residual Heat Removal Suction Relief Valve for LTOP	104/103	17-022
License Amendment	Chemical Addition with Reactor Coolant Pumps Not in Operation	105/104	17-019
License Amendment & Exemption	Shield building Roof Changes	106/105	16-031
License Amendment & Exemption	Pipe Rupture Hazard and Flooding Analyses	107/106	17-010
License Amendment & Exemption	Design Changes to Minimize Main Control Room Heat-up	108/107	17-001
License Amendment	Use of ASME NB-3200 for Piping Component Analysis	109/108*	17-035
License Amendment	Containment Flooding pH Adjustment Changes	110/109	17-032
License Amendment & Exemption	PXS/ADS Line Resistance Changes	111/110	17-009
License Amendment & Exemption	Raceway and Cable Routing	112/111	17-036
License Amendment & Exemption	Testing Inspections, Tests, Analyses, and Acceptance Criteria Consolidation	113/112	17-038
License Amendment & Exemption	Reactor Vessel Head Vent Capacity	114/113	17-025
License Amendment	Leakage Detection Instrumentation Operability	115/114	17-029
License Amendment	Human Factors Engineering Resolution Verification Process Revisions	116/115	17-030
License Amendment	Technical Specification Changes to Support Control Rod Testing in Cold Shutdown With Reactor Coolant Pumps Not in Operation	117/116	17-034

License Amendment & Exemption	Technical Specifications for Reactor Coolant System Vacuum Fill and Inspections, Tests, Analyses, and Acceptance Criteria for Containment Floodup	118/117	17-027
License Amendment	Clarify Technical Specification Definition of Actuation Logic Test and Add New Actuation Logic Output Test	119/118	17-026
License Amendment	Passive Residual Heat Removal Heat Transfer and In-containment Refueling Water Storage Tank Heat Up Test Acceptance Criteria Change	120/119	17-033
License Amendment	Increase in MSIV Compartment Pressure	122/121	17-028
License Amendment & Exemption	Class 1E Motor-Operated Valve Terminal Voltage Testing	121/120	17-018
License Amendment & Exemption	Improvements to Main Control Room (MCR) Post-Accident Radiological Consequences	123/122	17-023
License Amendment	Analytical Methods for Core Operating Limits Report and Consistency Changes	124/123	18-006
License Amendment & Exemption	Tier 1 and Tier 2* Editorial and Consistency Changes	125/124	17-042
License Amendment & Exemption	Changes to Containment Cooling and Spent Fuel Pool Makeup Strategies	126/125	17-021
License Amendment & Exemption	Changes to the Building Gap between the Nuclear Island and Adjacent Buildings	127/126	18-002
License Amendment & Exemption	Consistency and Clarification Changes to Annex Building, Auxiliary Building and Basemat ITAAC	128/129	17-040
License Amendment & Exemption	Ventilation System Changes	129/128	16-030
License Amendment & Exemption	ITAAC for Pneumatic Testing of VES Air Lines	130/131	17-044
License Amendment & Exemption	Unqualified Service Level I Coatings Program	131/130	17-039
License Amendment	Changes to Natural Circulation and Passive Residual Heat Removal Heat Exchanger Startup Tests	132/131	17-041
License Amendment	Technical Specification Applicability Changes to Support Pressurizer Safety Valve Operability	133/132	18-004
License Amendment	Fuel Management Related Technical Specifications	134/133	18-005

License Amendment	Relocation of SNC Fleet Emergency Operations Facility	136/135	EP-8
License Amendment	Change to Battery Charger Output Amp Value in Technical Specification SR 3.8.1.2 and the Surveillance Frequency for SR 3.8.7.6	135/134	18-003
License Amendment	Remotely Operated Containment Isolation Valve Status	137/136	18-012
License Amendment	Technical Specification Updates for Reactivity Controls and Other Miscellaneous Changes	138/137	17-024
License Amendment & Exemption	Containment Sump Level Instrumentation	140/139	18-014
License Amendment & Exemption	Equipment Survivability Assessment	139/138	18-001
License Amendment	Changes to Construction Fitness-for-Duty (FFD) Commitments	141/140	18-018
License Amendment & Exemption	Changes to Tier 2* Departure Evaluation Process	142/141	17-037
License Amendment & Exemption	Updates to Tier1 Table 2.5.2-3	143/142	18-010
License Amendment	Effect of Rod Shadowing on Excore Power Range Detectors, Changes to Nuclear Overpower Reactor Trips, and Changes to Monitoring of Moderator Temperature Coefficient and Core Power Distribution	144/143	17-031
License Amendment & Exemption	Fire Protection System Nonsafety Cable Spray Removal	145/144	18-015
License Amendment	Technical Specification Changes to Support Operability During Mode 5 Vacuum Fill Operations	146/145	18-009
*	Summer had the lead		



Submit	Accept	Date Issued	Days (A to I)	EPID/CAC	Total Staff Hours	Complex
5/5/16	6/28/16	10/4/16	98	RT5004	291.3	L
6/3/16	8/26/16	10/12/16	47	RT5007	17.3	L
11/24/15	3/30/16	11/18/16	233	RP9521	22	M
8/23/16	9/6/16	11/30/16	85	RP9534	136.3	L
5/17/16	6/9/16	12/16/16	190	RT5002	152.3	L
9/9/16	9/21/16	12/16/16	86	RP9540	137.3	L
2/6/15	3/23/15	12/22/16	640	RP9506	127.3	M
7/25/16	8/26/16	12/29/16	125	RP9530	118	L
8/11/16	8/30/16	12/29/16	121	RP9533	112.3	L
5/27/16	8/10/16	1/13/17	156	RT5006	182	L
4/26/16	8/26/16	1/13/17	140	RT5005	6.5	M
4/26/16	8/26/16	1/19/17	146	RP9531	74.8	M
8/23/16	10/13/16	1/30/17	109	RP9536	161.3	L
9/13/16	9/20/16	1/30/17	132	RP9542	122.8	L
9/9/16	9/21/16	2/9/17	141	RP9541	262.5	L
8/31/16	10/13/16	2/9/17	119	RP9538	121	L
6/16/16	8/26/16	2/24/17	182	RP9528	135	L
11/4/16	12/2/16	2/27/17	87	RP9604	117	L
4/18/14	4/28/14	3/13/17	1050	RP9462	79	H
8/31/15	9/23/15	3/14/17	538	RP9516	606.5	H
8/12/16	7/14/16	3/27/17	256	RP9527	755	H

12/16/16	1/25/17	5/1/17	96	RP9605	200.5	L
3/4/16	8/2/16	5/18/17	289	RP9524	209.3	L
10/26/16	11/30/16	5/25/17	176	RP9603	128.5	L
2/15/16	3/22/16	6/8/17	443	RP9475	436	H
8/29/16	9/21/16	6/27/17	279	RP9535	205.8	M
1/20/17	2/2/17	7/6/17	154	RP9607	99	L
3/1/16	7/29/16	7/20/17	356	RP9525 L-2017-LLA-0152	702	H
8/31/16	1/12/17	8/22/17	222	RP9537 L-2017-LLA-0129	318.1	L
2/22/17	3/9/17	8/23/17	167	RP9611	156	M
3/2/17	3/21/17	8/24/17	156	RP9613 L-2017-LLA-0146	1382.3	H
10/20/16	2/8/17	9/5/17	209	RP9602 L-2017-LLA-0133	265.8	M
2/24/17	3/10/17	9/22/17	196	RP9612 L-2017-LLA-0157	222	M
3/8/17	3/22/17	9/27/17	189	RP9614	106	L
8/30/16	3/5/17	10/6/17	215	RP9539 L-2017-LLA-0130	296.1	M
1/31/17	3/1/17	10/12/17	225	RP9608 L-2017-LLA-0156	191	L
10/14/16	12/2/16	10/19/17	321	RP9601 RP9483 L-2017-LLA-0140 L-2017-LLA-0402	589.5	H
5/5/17	7/14/17	10/20/17	98	RP9623 L-2017-LLA-0147	188	L
4/27/17	5/15/17	10/20/17	158	RP9622 L-2017-LLA-0139	239.3	M
4/6/17	4/21/17	11/1/17	194	RP9620 L-2017-LLA-0159	120	M
5/5/17	6/5/17	11/3/17	151	RP9624 L-2017-LLA-0142	160.8	M
5/15/17	6/7/17	11/6/17	152	RP9522 L-2017-LLA-0136	344.1	H

3/15/17	3/22/17	11/8/17	231	RP9616 L-2017-LLA-0158	240.5	L
5/24/17	6/16/17	11/14/17	151	RP9627 L-2017-LLA-0151	162	M
4/21/17	5/4/17	11/17/17	197	RP9621 L-2017-LLA-0141	482.8	M
2/17/17	3/8/17	11/22/17	259	RP9610 L-2017-LLA-0153	514	H
5/10/17	5/18/17	12/4/17	200	RP9525 L-2017-LLA-0135	551.5	H
6/23/17	7/19/17	12/8/17	142	RP9629 L-2017-LLA-0084 L-2017-LLA-0155	107.3	L
12/14/16	10/11/17	12/19/17	69	RP9609 L-2017-LLA-0128	351.8	M
7/14/17	8/14/17	12/20/17	128	RP9632 L-2017-LLA-0087 L-2017-LLA-0154	301.6	M
5/31/17	8/14/17	1/9/18	148	RP9628 L-2017-LLA-0083 L-2017-LLA-0134	207.3	L
11/30/16	1/20/17	1/11/18	356	L-2017-LLA-0150	222.5	M
3/31/17	4/18/17	2/1/18	289	RP9619 L-2017-LLA-0143	2033.4	H
5/9/17	7/14/17	2/1/18	202	RP9629 L-2017-LLA-0145	153.8	M
9/22/17	9/29/17	2/22/18	146	RP9707 L-2017-LLA-0103	167	L
9/13/17	10/31/17	2/27/18	119	L-2017-LLA-0100	186	L
3/31/17	4/27/17	2/28/18	307	RP9618 L-2017-LLA-0126	525	M
10/6/17	11/8/17	3/6/18	118	L-2017-LLA-0104	185	L
11/16/17	11/30/17	3/6/18	96	L-2017-LLA-0389	109.5	L
7/28/17	8/25/17	3/8/18	195	RP9634 L-2017-LLA-0089 L-2017-LLA-0137	186.1	M
8/31/17	9/26/17	3/12/18	167	RP9639 L-2017-LLA-0094	250	L
9/29/17	10/31/17	3/22/18	142	L-2017-LLA-0099	133.8	M
9/22/17	10/23/17	3/28/18	156	RP9706 L-2017-LLA-0102	190.8	L

9/25/17	11/8/17	3/29/18	141	L-2017-LLA-0098	149	L
7/28/17	10/16/17	3/29/18	164	RP9635 L-2017-LLA-0090 L-2017-LLA-0132	312.5	L
10/6/17	12/8/17	4/11/18	124	L-2017-LLA-0101	303	M
8/18/17	11/3/17	4/18/18	166	RP9639 L-2017-LLA-0091	291	M
8/30/17	9/19/17	4/18/18	211	RP9637 L-2017-LLA-0092	397	M
8/31/17	9/18/17	4/20/18	214	RP9638 L-2017-LLA-0093	811	H
2/2/18	2/16/18	5/31/18	104	L-2018-LLA-0031	146.5	L
11/30/17	1/31/18	5/31/18	120	L-2017-LLA-0409	208	L
7/14/17	10/12/17	6/7/18	238	L-2017-LLA-0086 L-2017-LLA-0131	638.8	M
2/1/18	2/8/18	6/15/18	127	L-2018-LLA-0025	223.8	L
12/15/17	1/18/18	6/27/18	160	L-2017-LLA-0437	264	M
8/31/17	9/20/17	6/29/18	282	RP9606 L-2017-LLA-0096	499.5	M
12/20/17	1/22/18	7/10/18	169	L-2017-LLA-0422	208.5	L
11/3/17	11/15/17	7/10/18	237	L-2017-LLA-0376	470.5	M
11/17/17	1/16/18	7/11/18	176	L-2017-LLA-0393 L-2017-LLA-0394	110	L
1/31/18	2/15/18	7/12/18	147	L-2018-LLA-0018	256	M
1/31/18	2/8/18	7/19/18	161	L-2018-LLA-0019	80.5	L

8/31/17	9/11/17	7/26/18	318	L-2017-LLA-0293 L-2017-LLA-0095 MG0188 MG0189 MG0190 MG0191 MG0192 MG0193 MG0194 MG0195	377.5	H
1/31/18	2/26/18	7/26/18	150	L-2018-LLA-0017	217.5	M
4/13/18	4/26/18	8/7/18	103	L-2018-LLA-0102	367	L
7/28/17	8/31/17	8/23/18	357	RP9633 L-2017-LLA-0088 L-2017-LLA-0127	926.9	H
4/26/18	5/23/18	8/24/18	93	L-2018-LLA-0115	109	L
4/6/18	4/24/18	8/24/18	122	L-2018-LLA-0092	367	M
6/15/18	6/20/18	8/29/18	70	L-2018-LLA-0168	196	M
12/21/17	1/25/18	9/20/18	238	L-2017-LLA-0421	2430.3	H
4/20/18	5/4/18	9/25/18	144	L-2018-LLA-0109	183.3	L
9/8/17	10/2/17	9/27/18	360	RP9642 L-2017-LLA-0097	564.3	M
4/27/18	5/18/18	10/4/18	139	L-2018-LLA-0114	271	M
4/13/18	5/10/18	10/11/18	154	L-2018-LLA-0103	109.5	M

