

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of

DUKE ENERGY CAROLINAS, LLC

(William States Lee III Nuclear Station, Units 1 and 2)

Docket Nos. 52-018-COL  
52-019-COL

**ORDER**  
**(Adopting Proposed Transcript Corrections, Admitting Post-Hearing Exhibits,  
and Closing the Record of the Proceeding)**

The Commission held an evidentiary hearing on the uncontested portion of the captioned proceeding at its Rockville, Maryland headquarters on October 5, 2016. The parties have provided proposed transcript corrections in accordance with the deadline previously set. The transcript corrections identified in Appendix A to this order are adopted.

In addition, the parties have submitted responses to the Commission's post-hearing questions. As directed, the responses were filed as new exhibits using the previously established numbering scheme. Neither party objects to the admission of these new exhibits. Therefore, exhibits DEC-012 and NRC-015 are admitted into the evidentiary record.

The adoption of transcript corrections and the admission into evidence of the new exhibits completes the procedural activities that remained pending at the conclusion of the mandatory hearing. The record of the uncontested portion of this proceeding is therefore closed, effective as of the date of this order.

This order is issued pursuant to my authority under 10 C.F.R. § 2.346(a) and (j).

IT IS SO ORDERED.

For the Commission

**NRC SEAL**

**/RA/**

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Annette L. Vietti-Cook  
Secretary of the Commission

Dated at Rockville, Maryland,  
this 4<sup>th</sup> day of November, 2016.

APPENDIX A: Changes to the Transcript for the Lee Mandatory Hearing  
October 5, 2016

| Page | Line     | Correction  |
|------|----------|---|
| 2    | 24       | Change "ALSO PRESENT:" to "APPLICANT:"  |
| 3    | 12 to 13 | Move "LANCE VAIL, Senior Research Engineer, Pacific Northwest National Laboratory" to page 2, line 22                             |
| 6    | 2 to 23  | Delete transcript of Affirmation Session  |
| 7    | 7        | Replace "hear" with "here"  |
| 7    | 12       | Replace "189" with "189a."  |
| 7    | 15       | Insert "the" after "of", replace "NRC's" with "NRC", and replace "staff" with "staff's"   |
| 8    | 20       | Capitalize "(a)"  |
| 8    | 21       | Capitalize "(c)" and "(e)"  |
| 10   | 7        | Replace "artificialities" with "artificiality"  |
| 10   | 16       | Change "thank the witness and the staff and from Duke" to "welcome everyone and thank the witnesses from the staff and from Duke" |
| 11   | 11       | Insert "in" after "swearing"  |
| 11   | 25       | Insert commas before and after "counsel", capitalize "counsel"  |
| 12   | 9        | Insert commas before and after "obviously"  |
| 12   | 16       | Capitalize "counsel"  |
| 13   | 24       | Replace "witness" with "witness's"  |
| 14   | 2        | Replace "there's" with "there are"  |
| 14   | 12       | Replace semicolon after "today" with comma  |
| 15   | 6        | Change "Michael" to "Malcolm"   |
| 15   | 21       | Insert "has or" before "had"  |
| 15   | 25       | Delete "as"   |
| 16   | 1        | Insert comma after "record", capitalize "counsel"   |
| 16   | 8        | Insert comma after "apologize", capitalize "counsel"  |
| 16   | 11       | Change "David" to "Davis"   |
| 16   | 13       | Change "Lancy" to "Lance"   |
| 16   | 21       | Change "I do, thank you." To "Thank you."   |
| 17   | 21       | Insert "--" after "does"  |
| 17   | 22       | Capitalize "counsel"  |
| 17   | 23       | Insert comma after "side", replace "of" with "or", replace "it" with "we've"  |
| 19   | 4        | Replace period with comma   |
| 19   | 5        | Delete "Just"   |
| 19   | 7        | Insert "sure who's" after "not"   |
| 20   | 8        | Change "presentation" to "presentations"  |
| 21   | 4        | Change "professionals and safely" to "professionals to safely"  |
| 22   | 8        | Change "his" to "its"   |
| 22   | 11       | Change "competitive" to "competiveness"   |

| <b>Page</b> | <b>Line</b> | <b>Correction</b>  |
|-------------|-------------|--|
| 26          | 12 to 13    | Change "area that require" to "area, the McGuire,"                                       |
| 26          | 25          | Change "so this" to "so you"   |
| 27          | 1           | Change "is 2038" to "probably say why 2038."   |
| 28          | 10          | Change "is" to "was"   |
| 28          | 11          | Change "890" to "80"   |
| 28          | 16          | Change "MPDS" to "NPDES"   |
| 29          | 3           | Change "off" to "about"  |
| 30          | 8           | Change "they're" to "there"  |
| 31          | 1           | Change as correct" to "was correctly"  |
| 31          | 21          | Change "bit work" to "bit of work"   |
| 32          | 11          | Change "in the switchyard" to "and the switchyard"                                       |
| 33          | 10          | Change "(in audible)" to "standard text"   |
| 33          | 11          | Change "you're seeing or" to "you've seen"   |
| 33          | 16          | Change "the organization" to "numbering and organization we"                             |
| 34          | 12          | Change "the methodology" to "that methodology"   |
| 34          | 23          | Change "Maguire" to "McGuire"  |
| 37          | 19          | Delete second "the", replace "a" with "the"  |
| 37          | 20          | Replace "that" with "what", replace "are" with "have"                                    |
| 37          | 21          | Replace period with comma  |
| 37          | 22          | Replace "So" with "so", replace first "or" with "and", join with prior line              |
| 37          | 23          | Replace "go" with "going"  |
| 38          | 1           | Replace period with comma, replace "You're" with "you're"                                |
| 38          | 20          | Change "the applicant license" to "the applicant, license holder"                        |
| 38          | 25          | Change "plans" to "plants"   |
| 39          | 12          | Change "on roof" to "when you move to"   |
| 39          | 18          | Replace "--" with "is", replace first "to" with "two of", replace second "to" with "two" |
| 39          | 19          | Delete "the"   |
| 39          | 20          | Delete "you know", insert "just" after "let's"   |
| 39          | 25          | Replace "were" with "was"  |
| 40          | 22          | Delete "we're"   |
| 40          | 25          | Delete "you know"  |
| 41          | 1           | Insert "it." after "about"   |
| 41          | 15          | Insert "to" after "presented"  |
| 41          | 19          | Change "all" to "really all"   |
| 42          | 19          | Change "MR. KITCHEN" to "MR. FALLON"   |
| 42          | 25          | Replace "for NRC" with "from NRC's"  |
| 43          | 6           | Delete line break  |
| 43          | 7           | Add period after "interesting", delete "and then", and insert line break before "I"      |

| <b>Page</b> | <b>Line</b> | <b>Correction</b>   |
|-------------|-------------|---|
| 43          | 24          | Change "to the captured" to "to have captured"  |
| 44          | 17          | Insert "it" after "considered"  |
| 46          | 15          | Delete "eight of"   |
| 48          | 16          | Change "MR. FALLON" to "MR. SNEAD"  |
| 48          | 18          | Change "better that" to "that event"  |
| 52          | 19          | Insert "include" after "review"   |
| 56          | 10          | Change "his" to "this"  |
| 56          | 19          | Insert "be" after "must"  |
| 56          | 20          | Change "is met, that will" to "is met. I will"  |
| 57          | 22          | Change "acceptable" to "acceptance"   |
| 58          | 10          | "Change "these findings" to "an inimicality finding"  |
| 59          | 16          | Change "these staff" to "the staff"   |
| 60          | 14          | Change "agency" to "agencies"   |
| 62          | 4           | Change "concluded" to "included"  |
| 62          | 14          | Delete second occurrence of "from the alternatives selected"  |
| 62          | 25          | Change "Section 102(2), 2(a)" to "Section 102(2)(A)"  |
| 63          | 8           | Change "constitutes" to "constitute"  |
| 63          | 10          | Capitalize "(c)"  |
| 63          | 23          | Capitalize "(c)"  |
| 64          | 6           | Capitalize "(e)"  |
| 66          | 3 to 4      | Delete "staff's -- the"   |
| 66          | 7           | Replace ", some" with "and"   |
| 66          | 12 to 13    | Replace "about, you know," with "asking"  |
| 71          | 6 to 7      | Insert ", or those that" after "licenses"   |
| 72          | 10          | Change "roles" to "rules"   |
| 72          | 15          | Delete "It may be."   |
| 73          | 13          | Delete "I think,"   |
| 73          | 16          | Insert period after "framework", delete "as", capitalize "the"  |
| 74          | 10          | Delete "you know,"  |
| 75          | 14          | Add "--" after "fact the"   |
| 80          | 7           | Insert "in" after "And"   |
| 80          | 23          | Insert "comments" after "repeat"  |
| 80          | 24          | Replace "questions" with "comments", insert "basically" before "I've"                                 |
| 81          | 17          | Change "had the issue" to "had to issue"  |
| 81          | 17 to 18    | Change "The incorporating agency were also" to "Also because they are a cooperating agency were also" |
| 82          | 7           | Insert "or" before second "the"   |
| 82          | 8 to 9      | Change "resource, management" to "resource management"  |
| 83          | 19          | Replace "I want to" with "gentlemen I'll"   |
| 88          | 18          | Delete "Okay", capitalize "thanks"  |

| <b>Page</b> | <b>Line</b> | <b>Correction</b>  |
|-------------|-------------|--|
| 89          | 21          | Change “electronic and electrical” to “electro-mechanical”   |
| 90          | 3           | Change “representing” to “represented in”                    |
| 90          | 4           | Add a comma after “curve”                                    |
| 90          | 8           | Change “plan” to “plant”                                     |
| 90          | 14          | Change “exceeding” to “exhibiting”                           |
| 90          | 16          | Add “DCD” after “AP1000”                                     |
| 91          | 5           | Change “that a” to “that the”                                |
| 91          | 5           | Change “high-frequence” to “high-frequency”                  |
| 91          | 10          | Change “This comparison” to “These comparisons”              |
| 91          | 15          | Change “seismic category one” to “Seismic Category I”        |
| 91          | 15          | Change “seismic category two” to “Seismic Category II”       |
| 91          | 16          | Change “by consistence” to “piping systems,”                 |
| 91          | 17          | Change “electromechanical” to “electro-mechanical”           |
| 91          | 18          | Change “analysis” to “analyses”                              |
| 91          | 19          | Change “test” to “testing”                                   |
| 91          | 23          | Change “analysis” to “analyses”                              |
| 92          | 6           | Change “seismic category one” to “Seismic Category I”        |
| 92          | 17          | Change “structures’ primary” to “structures, primary”        |
| 92          | 17          | Change “analysis” to “analyses”                              |
| 92          | 19          | Change “test” to “testing”                                   |
| 92          | 19          | Change “electromechanical” to “electro-mechanical”           |
| 93          | 4           | Change “FSER” to “FSAR”                                      |
| 93          | 10          | Change “evaluation” to “evaluations”                         |
| 93          | 14          | Change “the three specs” to “these respects”                 |
| 95          | 5           | Change “plan” to “plant”                                     |
| 96          | 5           | Change “SECY-10-78” to “SECY-10-0078”                        |
| 99          | 25          | Change “technical” to “tactical”                             |
| 100         | 5           | Change “a max of” to “accident”                              |
| 100         | 7           | Change “boiler” to “boiling”                                 |
| 100         | 10          | Change “for EOF” to “for remote EOF”                         |
| 100         | 21          | Change “or” to “for”   |
| 101         | 3           | Change “Lee” to “lead”                                       |
| 104         | 1           | Change “FSER” to “FSAR”                                      |
| 104         | 13          | Change “MR. HUGHES” to “MR. ROCHE-RIVERA”                    |
| 104         | 21          | Capitalize “(d)”, insert “Duke” after “requires”             |
| 105         | 1           | Replace “open” with “opened”                                 |
| 105         | 7           | Change “pre-Cherokee” to “Cherokee”                          |
| 106         | 5           | Change “cars” to “karst”                                     |
| 107         | 11          | Insert “difference” after “the”                              |
| 107         | 16          | Delete comma, replace “which had been” with “the Commission” |

| Page | Line | Correction  |
|------|------|---|
| 107  | 21   | Change "FSER" to "FSAR"   |
| 107  | 21   | Replace "contained" with "containing"   |
| 107  | 25   | Change "FSER" to "FSAR"   |
| 108  | 9    | Replace "AP1000" with "AP1000s"   |
| 109  | 13   | Delete comma, insert "on" before second "the"   |
| 109  | 22   | Change "Oconee" to "Oconee EOF"   |
| 109  | 23   | Replace "facilities" with "facility"  |
| 113  | 10   | Replace "an" with "been"  |
| 114  | 1    | Delete first "progress," capitalize second "progress", and insert "Energy" before "operating" |
| 114  | 5    | Delete "you know"   |
| 114  | 23   | Change "progress energy" to "Progress Energy"   |
| 115  | 15   | Change "- -" to "a limit"   |
| 117  | 20   | Delete "about -- think"   |
| 117  | 21   | Change "CARs" to "karst"  |
| 117  | 22   | Insert period after "cannot", delete "--", capitalize "the"                                   |
| 119  | 9    | Replace "their" with "your"   |
| 122  | 12   | Change "permits" to "permit"  |
| 124  | 2    | Delete second "maybe"   |
| 124  | 6    | Change "MR." to "MS."   |
| 125  | 1    | Change "COLA" to "COL"  |
| 125  | 13   | Change "FERBs" to "FERC's"  |
| 126  | 7    | Change "COLA" to "COL"  |
| 126  | 13   | Change "out" to "to"  |
| 126  | 19   | Change "based load" to "base-load"  |
| 128  | 23   | Change "rely on on" to "rely on in"   |
| 130  | 13   | Change "MR." to "MS."   |
| 130  | 24   | Change "projects" to "project's"  |
| 131  | 16   | Change "stiping" to "striping"  |
| 132  | 2    | Change "and" to "an"  |
| 133  | 1    | Change "necessitate" to "necessitated"  |
| 133  | 19   | Change "planes" to "plains"   |
| 133  | 20   | Change "in stream" to "in-stream"   |
| 134  | 1    | Change "steam" to "stream"  |
| 134  | 15   | Change "plan" to "planned"  |
| 135  | 17   | Change "permitting and requirements" to "permitting requirements"                             |
| 136  | 14   | Change "EIC" to "EIS"   |
| 136  | 23   | Replace "say" with "stated"   |
| 136  | 24   | Replace "of" with "to"  |
| 137  | 9    | Insert "have not" after "we"  |

| <b>Page</b> | <b>Line</b> | <b>Correction</b>   |
|-------------|-------------|---|
| 138         | 5           | Replace "Services" with "Service", insert "has" after "Service", replace "list" with "listed" |
| 138         | 7 to 8      | Change "As we all do --" to "As a result, Duke"   |
| 138         | 24          | Insert "to" after "information"   |
| 138         | 25          | Change "COLA" to "COL"  |
| 139         | 1           | Delete comma  |
| 139         | 7           | Replace "protected" with "threatened"   |
| 139         | 9           | Change "issues" to "issued"   |
| 139         | 14          | Replace "identify" with "identified by"   |
| 140         | 18          | Insert "and" after "Ecologist"  |
| 140         | 22          | Change "322" to "332"   |
| 141         | 3           | Insert a comma after "selected"   |
| 141         | 10          | Insert "will" after "it"  |
| 141         | 12          | Change "compensation" to "compensating"   |
| 141         | 14          | Replace "idea" with "ideal"   |
| 142         | 12          | Change "new insignificant" to "new and significant"   |
| 142         | 21          | Delete "just,"  |
| 143         | 1           | Change "DIS" to "DEIS"  |
| 144         | 4           | Change "predicated" to "predicted"  |
| 144         | 21          | Change "or" to "of"   |
| 145         | 5           | Change "with out" to "without"  |
| 145         | 17          | Change "period" to "periods"  |
| 147         | 5           | Change "we confident" to "we feel confident"  |
| 149         | 19          | Change "you have" to "you would have"   |
| 149         | 24          | Change "COLA" to "COL"  |
| 150         | 5           | Change "oncologist" to "alternatives"   |
| 150         | 11          | Change "licensees" to "licensee's"  |
| 150         | 13          | Change "in the sense" to "in a sense"   |
| 151         | 23          | Replace "it will" with "we'll"  |
| 152         | 9           | Insert "and" after "procedure"  |
| 152         | 13          | insert ", as is" after "that"   |
| 152         | 19          | Change "FALLOW" to "FALLON"   |
| 153         | 18          | Change "lease" to "Lee"   |
| 154         | 23          | Change "Burn" to "Burns"  |
| 157         | 20          | Insert "my" before "colleagues"   |
| 159         | 15          | Delete "both"   |
| 159         | 17          | Insert "not only" before second "from"  |
| 159         | 25          | Insert "the" before "United"  |
| 160         | 12          | Replace "they" with "they'll", delete "-- yes,"   |
| 160         | 13          | Delete "that's, Commissioner, it'll be"   |



UNITED STATES OF AMERICA  
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Units 1 and 2) )  
)  
(Mandatory Hearing) )

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing **ORDER (Adopting Proposed Transcript Corrections, Admitting Post-Hearing Exhibits, and Closing the Record of the Proceeding)** have been served upon the following persons by Electronic Information Exchange.

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[Original signed by Herald M. Speiser]  
Office of the Secretary of the Commission

Dated at Rockville, Maryland,  
this 4<sup>th</sup> day of November, 2016