

November 27, 2013

Ms. Cindy Schulz, Field Supervisor  
U.S. Fish and Wildlife Service  
Virginia Field Office  
6669 Short Lane  
Gloucester, VA 23061

**SUBJECT: SUBMITTAL OF UPDATE TO THE 2005 BIOLOGICAL ASSESSMENT FOR THE PROPOSED NORTH ANNA NUCLEAR POWER STATION, UNIT 3**

Dear Ms. Schulz:

The U.S. Nuclear Regulatory Commission (NRC) staff is currently reviewing an application submitted by Dominion Virginia Power (Dominion) for a combined license (COL) to construct and operate a third nuclear reactor (designated as North Anna Unit 3) at the North Anna Power Station (NAPS) site in Louisa County, Virginia. Dominion's COL application was submitted to the NRC in 2007. The NRC staff conducted a prior review of the licensee proposal to construct additional units at the North Anna site and granted an early site permit (ESP) to Dominion in 2007.

As part of the ESP review, the NRC staff prepared a Biological Assessment (BA) that was submitted to the U.S. Fish and Wildlife Service (USFWS) on January 31, 2005. In a letter dated May 20, 2005, the USFWS concurred with the NRC's conclusions that no impact to threatened or endangered species is expected to result from ESP activities. Since the issuance of the 2005 BA, Dominion has applied for a COL which requires additional environmental review by the NRC staff. As part of our current review of Dominion's COL application, the NRC has prepared a draft of Supplemental Information to the Biological Assessment to update the 2005 BA. The purpose of this letter is to provide a copy of our draft update for your review in order to facilitate follow-up interactions as described later in this letter.

As part of the review of this COL application, the NRC staff has prepared a final supplemental environmental impact statement (SEIS). The SEIS, published in February 2010, documents the NRC staff's environmental review for the NAPS Unit 3 COL and was a supplement to the 2006 ESP EIS which had been prepared to support the issuance of the ESP to Dominion. The 2010 SEIS includes an analysis of pertinent environmental matters not resolved in the ESP review and evaluates new and potentially significant information identified since the ESP. This includes the impacts to additional property obtained by Dominion adjacent to the NAPS site and the impacts of an additional 500 kV transmission line to be constructed along an existing corridor. Since the publication of the 2010 SEIS, Dominion has proposed a site to offload oversized and/or overweight reactor components transported up the Mattaponi River by barge. The attached draft supplement to the 2005 BA evaluates the impact of construction and operation of the new nuclear unit including information regarding the additional property, the proposed new

transmission line and additional information related to the transport of large components on Federally protected species. None of these activities were evaluated in the 2005 BA.

To ensure compliance with Section 7 of the Endangered Species Act of 1973 (ESA) and fulfill consultation requirements as required by the Fish and Wildlife Coordination Act (FWCA), the NRC contacted your office by letter dated April 4, 2008 and requested any new and significant information on Federally-listed, proposed and candidate species, and critical habitat that may be in the vicinity of the North Anna site and the associated transmission line rights-of-way. By letter dated January 27, 2009, the NRC requested comments from your office on the draft SEIS. To facilitate completion of consultation, we request to meet with staff from your office to discuss the NRC's review of Dominion's COL application and the draft supplement to the 2005 BA. To aid your review, enclosed is a CD containing pertinent documents associated with the NRC's review of Dominion's COL application, including a copy of the 2005 BA, the ESP EIS and the COL SEIS.

Please note that in February 2011, the NRC informed your office of a change in the type of reactor design that Dominion planned to build and that the NRC would be preparing a supplement to the 2010 SEIS. Dominion has since reverted back to its original plans to build the same reactor as that evaluated in the 2010 SEIS. The NRC is currently reassessing its plans to prepare a supplemental EIS.

If you have any questions concerning the enclosed draft Supplemental Information to the Biological Assessment, please contact Ms. Tamsen Dozier, Environmental Project Manager at 301-415-2272 or by email at [Tamsen.Dozier@nrc.gov](mailto:Tamsen.Dozier@nrc.gov).

Sincerely,

**/RA/**

Tamsen Dozier, Chief (Acting)  
Environmental Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 52-017

Enclosure:  
As stated

cc w/o enclosure: See next page

transmission line and additional information related to the transport of large components on Federally protected species. None of these activities were evaluated in the 2005 BA.

To ensure compliance with Section 7 of the Endangered Species Act of 1973 (ESA) and fulfill consultation requirements as required by the Fish and Wildlife Coordination Act (FWCA), the NRC contacted your office by letter dated April 4, 2008 and requested any new and significant information on Federally-listed, proposed and candidate species, and critical habitat that may be in the vicinity of the North Anna site and the associated transmission line rights-of-way. By letter dated January 27, 2009, the NRC requested comments from your office on the draft SEIS. To facilitate completion of consultation, we request to meet with staff from your office to discuss the NRC's review of Dominion's COL application and the draft supplement to the 2005 BA. To aid your review, enclosed is a CD containing pertinent documents associated with the NRC's review of Dominion's COL application, including a copy of the 2005 BA, the ESP EIS and the COL SEIS.

Please note that in February 2011, the NRC informed your office of a change in the type of reactor design that Dominion planned to build and that the NRC would be preparing a supplement to the 2010 SEIS. Dominion has since reverted back to its original plans to build the same reactor as that evaluated in the 2010 SEIS. The NRC is currently reassessing its plans to prepare a supplemental EIS.

If you have any questions concerning the enclosed draft Supplemental Information to the Biological Assessment, please contact Ms. Tamsen Dozier, Environmental Project Manager at 301-415-2272 or by email at Tamsen.Dozier@nrc.gov.

Sincerely,  
**/RA/**  
Tamsen Dozier, Chief (Acting)  
Environmental Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No.: 52-017  
Enclosure: As stated  
cc w/o enclosure: See next page

**DISTRIBUTION:**

PUBLIC  
EPB1 R/F                      MDelligatti                      TDozier  
WBurton                      MCarpentier (OGC)              RWeisman (OGC)  
ADavis (PNNL)              RidsNroDnrl                      MSutton

**ADAMS Accession No: ML13199A385**

<b>OFFICE</b>	NRO/DNRL/EPB1/PM	NRO/DSEA/RENV	OGC	NRO/DNRL/EPB1/BC
<b>NAME</b>	TDozier	MMasnik	MCarpentier	TDozier
<b>DATE</b>	08/26/2013	11/18/13	10/28/13	11/27/13

**OFFICIAL RECORD COPY**

COL - North Anna Mailing List  
cc:

Attorney General  
Office of the Attorney General  
900 East Main Street  
Richmond, VA 23219

Mr. Kenneth Adams, Chief  
Upper Mattaponi Tribe  
Route 1, Box 182  
King William, VA 23086

Mr. Stephen Adkins, Chief  
Chickahominy Tribe  
8200 Lott Cary Rd  
Providence Forge, VA 23140

Ms. Eleanor Amidon  
CCPJ / PACE  
931 Tanbark Drive  
Afton, VA 22920

Mr. Bob Arment  
408 Lakeway Rd.  
Mineral, VA 23117

Mr. Dwight Baker  
Cumberland Consulting  
68 Perkins Rd.  
Centerville, VA 23027

Mr. Barry Bass, Chief  
Nansemond Indian Tribe  
PO Box 6558  
Portsmouth, VA 23703

Ms. Deanna Beacham  
Virginia Council of Indians  
PO Box 1475  
Richmond, VA 23218

Mr. Peter Bedment  
1240 Seahavey Drive  
Richmond, VA 23233

Mr. Jay R. Bolon  
318 Lois Lane  
Mineral, VA 23117

Mr. Bill Borduin  
Lake Anna Civic Assn.  
637 Bear Castle Drive  
Bumpass, VA 23024

Mr. Steve Boretos  
5116 Ridge Rd.  
Spotsylvania, VA 23117

Mr. Kenneth Branham, Chief  
Monacan Indian Nation  
PO Box 1136  
Madison Hghts, VA 24572

Mr. Benjamin T. Brown  
3687 Turnpike Rd.  
Lexington, VA 24450

Mr. Kevin Brown, Chief  
Pamunkey Tribal Government  
175 Lay Landing Rd  
King William, VA 23086

Mr. James A. Bryan  
P.O. Box 30  
Batesville, VA 22924

Mr. Brian Buckley Catholic Worker  
15560 Louisa Rd.  
Trevillians, VA 23170

Mr. Roy Butler  
87 Bear Castle Drive  
Bumpass, VA 23024

Mr. Pratt Cherry  
Nuclear Advocacy Network  
9318 Broad Meadows Rd.  
Glen Allen, VA 23060

COL - North Anna Mailing List  
cc:

Mr. Dick Clark, President  
Oakridge Civic Assn.  
2212 Founders Bridge Rd.  
Midlothian, VA 23113

Mr. Michael M. Cline, State Coord  
VA Dept of Emergency Mgmt  
10501 Trade Court  
Richmond, VA 23236-3713

Mr. Ted Coberly  
Orange Cty Adm  
P.O. Box 111  
Orange, VA 22690

Mr. W. Craig Conkin, Director  
Chemical and Nuclear Preparedness &  
Protection Div. (CNPPD)  
Dept. Of Homeland Security  
Washington, DC 20528

Ms. Myra Cramer  
Hanover Branch library  
7527 8 library Dr.  
Hanover, VA 23069

Ms. Julie Curry  
P.O. Box 141  
Batesville, VA 22924

Mr. Carl Custalow, Chief  
Mattaponi Tribe  
1467 Mattaponi ReservCircle  
West Point, VA 23181

Ms. Jana Cutlip  
Green Party of Virginia  
P.O. Box 161  
Batesville, VA 22924

Mr. John Daily  
ITRON  
19261 Bowles Knobb Drive  
Rockville, VA 22924

Ms. Barbara Davison  
Branch Manager  
Salem Branch library  
2607 Salem Church Rd  
Fredericksburg, VA 22406

Mr. Donald Day  
Piedmont Alliance for Safe Energy  
151 Buckingham Circle  
Charlottesville, VA 22903

Mr. Rusty Dennen  
The FreeLance Star  
616 Amelia St.  
Fredrickburg, VA 22401

Mr. Erich W. Dreye  
566 Kellon Drive  
Louisa, VA 23043

Mr. Mike Duffey  
Dominion  
16119 Goshen Rd.  
Montpelier, VA 23192

Ms. Renee Edwards  
755 Bohannon Rd.  
Bumpass, VA 23024

Mr. Marvin Fertel, Sr. VP  
Chief Nuclear Officer  
1776 I St, NW, Ste. 400  
Washington, DC 20006-3708

Mr. Barry Fleming, State Rep  
170 W Forrest Street  
Harlem, GA 30814

COL - North Anna Mailing List  
cc:

Mr. Todd Flowers  
4013 Stuart Avenue  
Richmond, VA 23060

Mr. Sam Forrest  
1800 Rock Quarry Road  
Louisa, VA 23093

Mr. Robert Gibson  
P.O. Box 160  
Louisa, VA 26093

Ms. Carrie E. Girstantas, ME  
Dept. Of Sys Eng  
1111 Sherwood Avenue  
Charlottesville, VA 22903

Shawn Goodman  
P.O. Box 2669  
Spotsylvania, VA 22553

Mr. Richard Goss  
Planning Director  
County of Spotsylvania  
P.O. Box 876  
Spotsylvania, VA 22553

Mr. R. Duff Green  
Orange Cty Emerg Mgr  
P.O. Box 111  
Orange, VA 22960

Mr. Fred Gruber  
59 S. Lakeshore Dr.  
Louisa, VA 23093

Mr. Eric Gvacyalny  
8308 Whistlor Rd.  
Richmond, VA 23227

W. Haire  
Tribal Historic Preservation Officer  
Catawba Indian Tribe  
PO Box 750  
Rock Hill, SC 29731

Mr. Addison Hall  
10267 Anyhow Ct.  
Mechanicsville, VA 23116

W. "Red Hawk" Brown Chief  
Cheroenhaka (Nottoway) Indian Tribe  
PO Box 397  
Courtland, VA 23837

Mr. Leo Henry, Chief  
Tuscarora Nation  
2006 Mt Hope Rd  
Lewiston, NY 14092

Mr. Tim E. Hermann  
Vice President  
Nuc Eng - AmerenUE  
P.O. Box 620  
Fulton, MO 65251

Casey Herndon  
Living Edu Center  
2422 Jefferson Park Avenue  
Charlottesville, VA 22903

Michell Hicks, Principal Chief  
Eastern Band of the Cherokee Nation  
PO Box 460  
Cherokee, NC 28719

COL - North Anna Mailing List  
cc:

Ms. Katie Hill  
Orange Cty library  
146A Madison Rd.  
Orange, VA 22960

Ms. Jean Moss Holland  
254 Moss Lane  
Bumpass, VA 23024

Mr. Dan Holmes  
Piedmont Envir Council  
P.O. Box 266  
Orange, VA 22960

Mr. Jacob Hosen  
1206-B Jamestown Rd.  
Williamsburg, VA 23185-3307

Mr. Nick Howard  
3864 Tree Chopt Rd.  
Glen Spring, VA 23065

Mr. John A. Hoyt  
320 Bear Castle Drive  
Bumpass, VA, 23024 23024

Ms. Martha Hutzell  
C. Melvin Snow Mem Branch library  
8740 Courthouse Rd.  
Spotsylvania, VA 22553

Ms. Jean Hyatt  
1534 Rugby Ave.  
Charlottesville, VA 22903

Tevuo Ishii  
1120 Conn. Ave., NW, Ste. 1070  
Washington, DC 20036

Ms. Glenna J. Wallace, Chief  
Eastern Shawnee Tribe of Oklahoma  
PO Box 350

Seneca, Missouri 64865

Mr. Dale Jones  
Lake Anna Boating & Rec Assn.  
2561 Peach Grove Rd.  
Louisa, VA 23093

Terry M. Jones  
P.O. Box 95  
Louisa, VA 23093

Ms. Carolyn Kardan  
1889 Wilmington Road  
Palmyre, VA 22963

Mr. Edwin Keller Mayor  
Town of Mineral  
102 East First Street  
Mineral, VA 23117

Page Kemp  
Dominion NAPS  
171 Kents Mill Rd.  
Louisa, VA 23093

Ms. Rebecca D. Kepler NA-YGN  
4902 Evelyn Byrd Rd.  
Richmond, VA 23225

Mr. Jon Kessler  
1125 Little High Street  
Charlottesville, VA 22902

Mr. C. Edward Kube, Jr.  
Orange Cty Admin  
P.O. Box 111  
Orange, VA 22960

COL - North Anna Mailing List  
cc:

Ms. Lynette L. Allston, Chief  
Nottoway Indian Tribe of VA  
PO Box 246  
Capron, VA 23829

Dr. W. T. Lough  
VA State Corp. Com  
P.O. Box 1197  
Richmond, VA 23209

Ms. Irene Luck  
The Central Virginian  
P.O. Box 464  
Louisa, VA 23093

Tyla Maheson  
4896 Burnham Rd.  
Richmond, VA 23234

Mr. Jack Manzari  
Louisa Chamber of Commerce  
547 Spring Valley Farm Ln  
Mineral, VA 23117

Ms. Rena Martin-Errick  
Peoples Alliance  
138 Twin Oaks Rd, #D-4  
Louisa, VA 23093

Ms. Karen Mayne  
Virginia Field Office  
U.S. Fish and Wildlife Service  
6669 Short Lane  
Gloucester, VA 23061

Mr. Robert H. Meier  
26 Lizzie Lane  
Bumpass, VA 23024

Ms. Deana Meredith  
Louisa Chamber of Commerce  
P.O. Box 955  
Louisa, VA 23093

Mr. Walt Michelski  
145 Jerdone Island Dr  
Bumpass, VA 23024

Mr. Ron Mickens  
Dominion  
8908 Leeds Ct.  
Fredericksburg, VA 22408

Pat and Ed Mitchell  
9626 Fredericks Hall Rd.  
Mineral, VA 23117

Mr. Dale G. Mullen  
Louisa Cty Admin  
Louisa County Admin Dept  
PO Box 160  
Louisa, VA 23093

Mr. Bill Murphey  
Lake Anna Civic Assn.  
449 Larkway Rd.  
Mineral, VA 23117

Mr. Reid Nelson Director  
Adv. Council of Historic Programs  
Old Post Office 1100 Pennsylvania Ave NW  
Washington, DC 20004

Ms. Gail Ott  
Branch Manager  
Jefferson-Madison Reg library  
881 Davis Hwy  
Mineral, VA 23117



COL - North Anna Mailing List  
cc:

Mr. Steve Owens  
VA Dept. Inland Fisheries  
1320 Belman Rd.  
Fredericksburg, VA 22401

Mr. Rob Pates  
310 Brentwood Rd.  
Charlottesville, VA 22901

Mr. Gene "Pathfinder" Adkins Chief  
Chickahominy Indians Eastern Div  
3120 Mt Pleasant Rd  
Providence Forge, VA 23140

Mr. Neil Patterson, Jr  
Director  
Tuscarora Nation  
2045 Upper Mtn Rd  
Sanborn, NY 14132

Mr. Jim Peck  
139 Rhett Butler Drive  
Bumpass, VA 23024

Mr. Dan Penn  
Pine Harbour P.O.A.  
459 Pine Harbour Drive  
Mineral, VA 23117

Michael and Deborah Pinion  
2570 Wanstead Ct.  
Richmond, VA 23238

Ms. Vanessa E. Quinn  
Acting Director  
Tech Hazards Div. - FEMA  
500 C Street NW  
Washington, DC 20472

Mr. Ernest Reed  
Living Education Cntr. for Ecology  
P.O. Box 2612  
Charlottesville, VA 22902

Mr. Ken Remmers  
Waterside Prop. On Assn.  
2301 Waterside Drive  
Bumpass, VA 23024

G. Anne Richardson, Chief  
Rappahannock Tribe  
5036 Indian Neck Rd  
Indian Neck, VA 23148

Mr. William C. Rolfe  
Assist Cty Admin  
P.O. Box 111  
Orange, VA 22690

Ms. Virginia Romyak  
6861 Castleberry Ct.  
Crozet, VA 22932

Mr. Marilyn Root  
Lake Anna Observer  
191 Lakewood Landing Drive  
Bumpass, VA 23024

Mr. Harry Ruth  
The Friends of Lake Anna  
c/o 230 Heather Drive  
Bumpass, VA 23024

Ms. Olivia Ryan  
Valere Real Estate  
9924 Kentucky Springs Rd.  
Mineral, VA 23117

COL - North Anna Mailing List  
cc:

Mr. Fred Salmons  
IWOE  
3801 Jefferson Davis Hwy.  
Richmond, VA 23223

Mr. Russell R. Savedge, Jr.  
5000 Dominion Blvd.  
Glen Glen, VA 23603

Ms. Lisa Shell  
North American  
500 Dominion Blvd.  
Glen Allen, VA 23060

Mr. Robert Singleterry  
617 Todd Trail  
Newport News, VA 23602

Mr. Ben Slone  
2052 Maidens Rd.  
Maidens, VA 23102

Mr. Doug Smith  
Lake Anna Civic Assn.  
4147 Chalklevel Rd.  
Louisa, VA 23093

Mr. Ron Sparkman  
Tribal Chairman  
The Shawnee Tribe  
PO Box 189  
Miami, OK 74355

Mr. Robert B. Strobe, M.D., M.P.H.  
State Health Com  
Office of the Com  
P.O. Box 2448  
Richmond, VA 23218

Mr. Alan Summerville  
ICF International  
9300 Lee Highway  
Fairfax, VA 22301-1207

Ms. Joanne Tetrault, Librarian  
Louisa Cty Public library  
881 Davis Hwy  
Mineral, VA 23117

Abhaya Thiele  
406 Key West Dr.  
Charlottesville, VA 22911

Mr. Troy B. Tignor, CZA Zoning Admin  
County of Spotsylvania  
P.O. Box 220  
Spotsylvania, VA 22553

Mr. Ray Turyel  
87 Sandy Point Dr  
Bumpass, VA 23024

Mr. Robert "Two Eagles" Green  
Chief  
Patawomeck Indian Tribe  
534 Fagan Dr  
Fredericksburg, VA 22405

Asa Vegodsky  
108 Eastbrook Ct.  
Charlottesville, VA 22901

Mr. Gary Voelker  
Lake Anna Civic Assn.  
11708 Jonas Adolph Ln.  
Bumpass, VA 23024

COL - North Anna Mailing List  
cc:

Mr. Howard West  
138 Rhett Butter Dr.  
Bumpass, VA 23024

Mr. George Wickliffe, Chief  
United Keetowah Band  
of Cherokee Indians in Oklahoma  
PO Box 746  
Tahlequa, OK 74465

Ms. Alexis Zeigler  
912 Woodfolk Dr.  
Charlottesville, VA 22902

Mr. Richard Zuercher  
Dominion  
500 Dominion Blvd.  
Glen Allen, VA 23060

## Email

Ball@VT.edu (Kenneth Ball)  
Carolyn.Cannella@usace.army.mil (Carolyn Cannella)  
jonesyc@peoplepc.com (Barbara Crawford)  
willie@buck.com (Willie Gentry)  
Victoria-057@yahoo.com (Vicky Ann Harte)  
iraznami@yahoo.com (Jack Manzari)  
info@louisachamber.org (Deana Meredith)  
dpatton@bechtel.com (Dan Patton)  
ksmith@spotsylvania.va.us (Kathryn A. Smith)  
dougsmith@firstva.com (Doug Smith)  
Magerr.Kevin@epa.gov (Kevin Magerr)  
Roger.Kirchen@dhr.virginia.gov (Roger Kirchen)  
Regena.D.Bronson@usace.army.mil (Regena Bronson)  
Sarah.Marsala@deq.virginia.gov (Sarah Marsala)  
Bryant.Thomas@deq.virginia.gov (Bryant Thomas)  
Kimberly\_Smith@fws.gov (Kimberly Smith)  
Cindy\_Schulz@fws.gov (Cindy Schulz)  
Roger.Kirchen@dhr.virginia.gov (Roger Kirchen)  
bredl@skybest.com (Louis Zeller)  
duaneredic@msn.com (Duane Redic)  
PrecursorS@aol.com (Aviv Goldsmith)  
acpasswater@aol.com (Al Passwater)  
APH@NEI.org (Adrian Heymer)  
awc@nei.org (Anne W. Cottingham)  
cberger@energetics.com (Carl Berger)  
chris.funderburk@dom.com (Chris Funderburk)  
david.christian@dom.com (David Christian)  
David\_Sommers@dom.com (David Sommers)  
dbarnes@spotsylvania.va.us (C. Douglas Barnes)  
ed.burns@earthlink.net (Ed Burns)  
elirons@deq.virginia.gov (Ellie Irons)  
ero@nrc.gov (Eric Oesterle)  
gcesare@enercon.com (Guy Cesare)  
GovePA@BV.com (Patrick Gove)  
gzinke@entergy.com (George Alan Zinke)  
jerald.head@ge.com (Jerald G. Head)  
Jim.Kinsey@inl.gov (James Kinsey)  
Joseph\_Hegner@dom.com (Joseph Hegner)  
karlg@att.net (Karl Gross)  
lchandler@morganlewis.com (Lawrence J. Chandler)  
ldwilkinson@gmail.com (Linda Wilkinson)  
lillian.cuoco@dom.com (Lillian Cuoco)  
marilyn.kray@exeloncorp.com  
mark.beaumont@wsms.com (Mark Beaumont)  
michael.cline@vdem.virginia.gov (Michael M. Cline)  
mpmurphy@deq.virginia.gov (Michael Murphy)  
MSF@nei.org (Marvin Fertel)  
patriciaL.campbell@ge.com (Patricia L. Campbell)  
Richard.Reister@nuclear.energy.gov (Rich Reister)  
RJB@NEI.org (Russell Bell)  
sfrantz@morganlewis.com (Stephen P. Frantz)

COL - North Anna Mailing List

cc:

stephan.moen@ge.com (Stephan Moen)  
tafaha@deq.virginia.gov (Tom Faha)  
tim.lough@scc.virginia.gov (Dr. William Lough)  
Tom.Bilik@nrc.gov (Thomas Bilik)  
tom.miller@hq.doe.gov (Tom Miller)  
tom.wilcox@dgif.virginia.gov (Thomas Wilcox)  
Tony\_Banks@dom.com (Tony Banks)  
Vanessa.quinn@dhs.gov (Vanessa Quinn)  
Vicki\_Hull@dom.com (Vicki Hull)  
Wanda.K.Marshall@dom.com (Wanda K. Marshall)  
wayne.marquino@ge.com (Wayne Marquino)  
wparrish@spotsylvania.va.us (Wanda Parrish)  
zoning@spotsylvania.va.us (Troy Tignor)