

PMNorthAnna3COLPEmails Resource

From: Harry Ruth [HC.RUTH@LOUISA.NET]
Sent: Saturday, March 12, 2011 9:14 AM
To: Sarah Marsala (VDEQ - VWP); Dozier, Tamsen; Ellie Irons (VDEQ)
Cc: Allen Lassiter (Sunset Harbor); Willie Gentry (LCBS-Cuckoo); Willie Gentry (LCBS - CD); Dan Byers (LCBS -Jackson); Jack Higgins(Plum Tree); Michael Ireland (Contrary Forest); Barbara Crawford (Cuckoos Nest); Bob & Jo Richards; Chuck Grutzius (Covenant Cove); Dan & Fran Verjinski; Dan & Leslie Baker (Lot 1 - Ruth Est); Dan Baker (Work-Busbees); Dave & Terry Conn; Dennis Schaible; Duane Redic; Frank Jenkins; Fred & Cara Bitzer; Gary & Linda Bullis; Gary Muller; George & Gerry Heino; Helen & Bruce McCotter (Red Hat); Jim Burdge; John & Tessie Fugett (Busbees); Ken Remmers; Ken Remmers (work); Kirt Obeck (Busbees); Linda Probst (Pine Harbor); Paul Schoenhard; Rich Kunz(Covenant Cove); Richard Morrow; Steve & Doris McGuire; Steve (Ski) & Cheryl Monoski (Both Waters); Tersh & Jean Norton; Walter Michalski; Will & Aileen Frazee (Jerdone Is); Will Frazee
Subject: FOLA - Additional comments re DEQ Consistency Review, NRC Supplemental Environmental Review & DEQ Water Permits
Attachments: 4THI6Z6TZQL7.jpg; FOLA - LAKE ANNA 2010 VISITOR STATISTICAL SUMMARY METHODOLOGY -5Dec10.doc

12 March 2011

To: Tamsen Dozier (NRC Supplemental Environmental Review for Unit 3 - North Anna)
Ellie Irons (Va. Office of Environmental Impact Review) Coastal Zone Management Consistency Certification - Unit 3 North Anna)
Sarah Marsala (VDEQ - Water Permits for Unit 3 - North Anna

Reference: Construction of Unit 3 at North Anna & the various permits, reviews, certifications.

1. Although you were all copied on the below email, we would like to ensure that all comments contained therein are fully considered as part of your respective reviews, permits, consistency certifications.

2. Please see the attached FOLA - Lake Anna 2010 Visitor Statistical Summary Methodology document to find the details that were used in producing the first Lake Anna Visitor Statistical Summary. Hopefully this will clarify any questions you previously had..It also contains a comprehensive view of all the various recreational facilities at Lake Anna, together with supporting data that was used to calculate the approximately 3 million annual recreational users at Lake Anna.The following is a summary only (see attachment for the details)..

The first Lake Anna Recreational Days statistical Summary was produced using both KNOWN (published details) and EDUCATED ESTIMATES OF ACTIVITY. A portion of the KNOWN data was collected from the various campgrounds, marina's, state park, etc. as of 30 November 2010. A portion of the KNOWN data was proprietary data supplied by the individual campground and marina owners/representatives and can be used in the statistical summary only, but the individual details are not to be disclosed otherwise per agreement. The KNOWN Lake Anna State Park data was supplied by the Lake Anna State Park.

The EDUCATED ESTIMATES OF ACTIVITY was developed by surveying many personnel that live or have businesses around the lake and developing averages from their responses.

Prior to publication, the Department of Conservation and Recreation (DCR) was again consulted to review the modeling methodology. Also, the Historical Projection from the 1971 North Anna Reservoir Land Use Plan produced by the Virginia Commission of Outdoor Recreation with the support and assistance of Virginia Electric and Power Company was consulted. As indicated above, the 1971 plan projected recreational activity between 2,300,000 to 3,500,000 recreation days by the year 2000. Using the model and computing the results, FOLA's total of 2,969,522 visitor recreation days in each of the categories at Lake Anna for 2010 was considered to be an accurate estimated statistical summary.

3. Since the NRC is not going to review the Reactor design until 2013, as stated below, this is the perfect opportunity to reconsider the cooling method proposed before

any construction begins and the designs are still undergoing reviews. Using more dry cooling would substantially reduce the 24 million gallons a day of consumptive use of Lake Anna water. Dry-cooling condensers are currently in use at various parts of the world. By using more or exclusively dry cooling for the 3rd unit, it would greatly reduce the many environmental impacts; including more water in Lake Anna to dissipate the heat from the existing two reactors; no additional chemical pollutants, including biocides and algacides used with the proposed cooling towers to prevent them from being clogged with mold and mildew and the anti-fungal agent Tributyltin & copper, all of which is proposed to be discharged into waters that are used by approximately 3 million annual recreational users of the lake.

At this stage of the design process, using more dry-cooling would offer significant environmental benefits with inconsequential costs associated with such a modification.

4. The recent (March 2011) earthquake in Japan and the resulting destruction to the building housing a nuclear reactor and the releasing of much radio activity into the atmosphere which resulted in evacuating thousands of persons within a 6 mile or greater vicinity of the reactor, is much cause for alarm. There are just so many environmental impacts associated with this disaster, that it is paramount that the NRC, VDEQ and the Coastal Zone Certifications reviews carefully consider the Japan disaster and concerns expressed previously with the Lake Anna Environment before granting any further water permits or Consistency Certifications or Environmental Impact statements. It just makes sense that the public should be able to know what the final approved design is of the 3rd reactor before granting any water permits or consistency certifications.

Please advise if you have any questions.

Sincerely,

Harry Ruth
for the Friends of Lake Anna

----- Original Message -----

From: [Harry Ruth](#)
To: [Senator R. Edward Houck](#) ; [Senator Charles Colgan-2](#) ; [Senator Charles Colgan](#) ; [Gregory Jaczko \(NRC Chairman\)](#) ; [David Kaiser \(NOAA\)](#)

Sent: Thursday, March 10, 2011 12:27 PM
Subject: FOLA - Request North Anna 3 reviews be halted

10 Mar 2011

To: NRC Chairman, Gregory Jaczko
Senator Charles Colgan
Senator R. Edward Houck
DEQ Director, David Paylor
NOAA - David Kaiser

Info: Tamsen Dozier (NRC Environmental)
Ellie Irons (Va. Office of Environmental Impact Review) the Coastal Zone Management
Sarah Marsala (VDEQ - Water Permits)

Reference: Water Management and Environmental Reviews previously submitted on the North Anna 3 project.

Dear Chairman, Senators and Director,

Based on the below article, it appears that the NRC Environmental, OEIR Coastal Zone Management Office and the VDEQ Water Permits and associated Environmental Reviews currently being processed by the NRC and Virginia DEQ about a proposed 3rd nuclear reactor

at North Anna is entirely premature. You are currently soliciting comments from the public and local governments for a design that is still not approved. This is the time for all to seriously look at the design and consider changes that will reduce or eliminate the additional of up to 24 million gallons a day of consumptive water use with the proposed 3rd reactor by using more dry cooling before construction begins in a Lake that has over 3 million annual recreational users. 2011 technology should be used for reducing water use in a lake that fed by a very small watershed, not a free flowing river. The technology should also incorporate the latest controls for releasing water out of the lake and also at Dike 3 for maintaining design water levels in both the main reservoir and the cooling lagoons.

If the NRC is not going to review the design of the 3rd reactor until 2013 (see below article), how can the public or local governments make intelligent comments today (2011) on a design that is not been approved, nor can the public or local governments anticipate what all of the environmental or other impacts that they wish to comment on until it is approved..

This current process appears to be more absurd, when the permits or certifications that you are currently soliciting comments for, could be certified or approved in 2011 and the consistency certification would be good for a lifetime, while the water permit(s) would be good for 15 years for a design that still has not been approved and will not be for another 2 or 3 years, if at all. If the design is not approved or is modified in anyway following the granting of the consistency certification or the water permits, **the public will have no future recourse and Dominion will have valid permits and a consistency certification.**

The timing of the current federal and state processes for the coastal zone certifications and water withdrawal permits for the North Anna 3 project definitely has the cart before the horse. Likewise some of the NRC Environmental Reviews do likewise.

The public was requested/instructed to comment on a construction water withdrawal permit by 4 Mar 2011 and a Coastal Zone Consistency Certification by 18 Mar 2011.

We request that the entire process be reviewed and updated at both the Federal Level (NRC and NOAA) and at the state level (VDEQ & State Water Control Board). It appears that the current process is not only wasting our public servants time at the NRC and VDEQ, (but more importantly during a recession with millions of people out of work), wasting the taxpayers money, the publics' time and a federal budget that appears to be out of control.

Please note that the Friends of Lake Anna is not anti-nuclear, nor do we have "not in my backyard" sentiments, but do support a wise and safe use of nuclear energy. Our goal is simply to protect Lake Anna for it approximately 3,000,000 annual users, together with its local businesses and insure compliance with the law. We do support the North Anna 3rd unit project, but want to insure that all environmental concerns are addressed in a responsible manner.

Therefore based on the above, (1) Please halt the current consistency certifications, water permit processing and associated environmental reviews for the North Anna 3 reactor until the NRC design review is completed: and (2) Also change and update the current laws/regulations as appropriate.

We will look forward to hearing from you soonest on the these requests.

Sincerely,

Harry Ruth
for the Friends of Lake Anna
C/O 230 Heather Drive, Bumpass, Va. 23024
Phone 540-872-3632

Acronym List:

DEQ Department of Environmental Quality
OEIR Office of Environmental Impact Review (VDEQ)
NOAA - National Oceanic and Atmospheric Administration
NRC Nuclear Regulatory Commission
VDEQ Virginia Dept of Environmental Quality

Reactor Design Changes Delay New Units at North Anna and Comanche Peak Nuclear Plants

Nuclear Power Industry News

[Nuclear Power Industry News](#)

Nuclear Power Plant News - Covering nuclear energy, suppliers, technology, equipment, and new plant construction

Reactor Design Changes Delay New Units at North Anna and Comanche Peak Nuclear Plants



[Nuclear Street News Team](#)

Wed, Mar 9 2011 5:55 AM

The Nuclear Regulatory Commission has indicated changes to the design of Mitsubishi's Advanced Pressurized Water Reactor will delay expansions at two nuclear plants, one for 18 months and the other for two years.

Luminant sought licensing for two new 1700 megawatt APWRs at its Comanche Peak site in Texas. Dominion, after starting the licensing process with plans to install a GE-Hitachi reactor, also decided last year to install a new APWR at its North Anna site in Virginia. While the NRC approved Mitsubishi's APWR design in 2008, the company had made structural changes to the plans that NRC indicated will require another seismic analysis.

A Dominion spokesman told Platts news service that the design review for the Virginia project would be delayed until 2013.

Likewise, the NRC indicated the safety review for Luminant's project will be pushed back to 2013, a delay of 18 months.

The safety review of Mitsubishi's US APWR design was scheduled to be completed in September, but last month the NRC said it would be pushed back to May of 2013 because of deficiencies in the application regarding structural analysis and instrumentation design.

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Subject: FOLA - Additional comments re DEQ Consistency Review, NRC Supplemental Environmental Review & DEQ Water Permits
Sent Date: 3/12/2011 9:13:49 AM
Received Date: 3/12/2011 9:14:13 AM
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Files	Size	Date & Time
MESSAGE	12540	3/12/2011 9:14:13 AM
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FOLA - LAKE ANNA 2010 VISITOR STATISTICAL SUMMARY METHODOLOGY -5Dec10.doc		
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FRIENDS OF LAKE ANNA (FOLA)

STUDY METHODOLOGY USED TO DEVELOP LAKE ANNA, VISITOR RECREATION DAYS STATISTICAL SUMMARY (Nov 2010)

1. STARTUP - RESEARCH OTHER STATISTICAL MODELS/PROFESSIONAL'S

a. FOLA consulted with Department of Conservation & Recreation (DCR) on terms/other models before starting.

Note: The term Visitor Recreation Days is a term used by DCR to define anticipated or exact recreational activity that occurs. Its definition: Each day that one person recreates at a recreational destination is counted as one day. For example if one person visits the Lake Anna State Park on 10 different days, then we would have 10 Visitor Recreation Days.

Perhaps a better term to be used in the future would be "User Recreation Days so it would not be misleading that residents are also included in the statistics. The term is used in many land-use plans to define how many persons are anticipated to use a planned recreational activity if the development is approved.

b. Statistical Models – Are made up of both KNOWNNS (published details) & EDUCATED ESTIMATES OF ACTIVITY

c. LAKE ANNA KNOWNNS

1. 13,000 acre lake. (Main reservoir - 9,600 acres – Cooling Lagoons 3,400 acres)
2. 220 Miles of Shoreline (Approximately 2/3 on main reservoir – 1/3 cooling lagoons)
3. 177 Lake Anna Subdivisions (Source Lake Anna Maps)
 - 121 – On Main Reservoir
 - 40 -- On Cooling Lagoons
 - 16 – No Direct Access (Estimated 8 on each side)

4. Bridges – 13

5. Campgrounds/Marina's

Christopher Run
Rocky Branch
Dukes Creek
Anna Point Marina
Highpoint Marina
Hunters Landing Marina
Lake Anna Marina
Lake Anna Yacht Club
Sturgeon Creek Marina

of campsites (both seasonal & day-campers)

of paid boat launchings

of boat wet slips

of commercial boat launching ramps

of on-site boat storage

of launching ramps

of boat rentals

6. Lake Anna State Park (Number of Visitors) to state park –

FRIENDS OF LAKE ANNA (FOLA)

STUDY METHODOLOGY USED TO DEVELOP LAKE ANNA, VISITOR RECREATION DAYS STATISTICAL SUMMARY (Nov 2010)

7. Advertised Public Fishing by DGIF at Dike 3 (both sides of the lake)

8. The public routinely fishes and swims in the lake (gaining access) from adjacent state roads that circle the 220 miles of Lake Shoreline on both the main reservoir and cooling lagoons.

9. Types of Recreation **on both the Main Reservoir and Cooling Lagoons of Lake Anna depends on water quality/water level and includes:** Boating, boat regatta's, jet-ski's (personal water craft), tubing, para-sailing, wake boarding, water skiing, sailing, canoeing, kayaking, swimming, tanning on the beaches, triathlons, fishing from both boats and on-shore, fishing tournaments, clamming, scuba diving and scuba diving training for our state police and fire/rescue personnel, gold panning, water critter studies, geo-caching, duck/goose hunting, 4th of July fireworks display, hiking on the shoreline, bird/eagle watching, picnics, sea-plane/ultra light landing areas and just fantastic relaxation opportunities to meditate, etc.

d. LAKE ANNA EDUCATED ESTIMATES OF ACTIVITY

(Subdivision (Residences & Guests))

1. # of homes per subdivision = 40 (Some much larger, some smaller)
2. Average persons in a home = 4
3. # of Visitors to a recreational home during the 5 warm months (21 weeks)(May to Sep) = 3
4. # of days each person spends on the lake during the warm months doing some type of recreational activity = 3 days every other week –
5. # of days each person spends on the lake during the cold 7 months (Oct – April) = For home persons only (no guests) = one day per month

(Non - Subdivision (Residences & Guests))

1. # of homes per subdivision = 40 (Some much larger, some smaller)
2. Average persons in a home = 4
3. # of Visitors to a recreational home during the 5 warm months (May to Sep) = 3
4. # of days each person spends on the lake during the warm months doing some type of recreational activity = 3 days every other week –
5. # of days each person spends on the lake during the cold 7 months (Oct – April) = For home persons only (no guests) = one day per month

(Public Campgrounds/Marina's)

1. # of persons in a boat when on the lake = 4 (some more, some less)
2. # of days each person that has a wet slip or on-site boat storage visits the marina and launches the boat on the lake during the 5 warm months (21 weeks) = 3 days every other week
3. # of days each person that has a wet slip or on-site boat storage visits the marina and launches the boat on the lake during the 7 cold months = 1 day a month

(Public Access -Adjacent State Roads & at Dike 3 Public Fishing Area – Cooling Lagoons)

(Public Fishing Area at Dike 3)

1. Weekends - # of persons fishing during the 7 prime months (30 weeks) Apr Oct = 30 @ day
2. Weekdays = # of persons fishing during the prime = 10 @ day
3. Weekends - # of persons fishing during the cold 5 months (22 weeks) = 12 @ day
4. Weekdays = # of persons fishing during the cold months = 4 @ day

FRIENDS OF LAKE ANNA (FOLA)

STUDY METHODOLOGY USED TO DEVELOP LAKE ANNA, VISITOR RECREATION DAYS STATISTICAL SUMMARY (Nov 2010)

(Public Swimming at 12 access points & adjacent state roads w/73 miles of shoreland on the cooling lagoons)

1. Weekends - # of persons swimming during the 5 warm months = 10 @ day
2. Weekdays = # of persons swimming during the 5 warm months = 4 @ day

(Public Fishing at the 12 access points + adjacent approx 73 miles of shoreland in the cooling lagoons)

1. Weekends - # of persons fishing during Apr – Oct (30 weeks) = 15 a day
2. Weekdays = # of persons fishing during Apr – Oct = 5 a day
3. Remainder of year = Total # of persons fishing = 20 @ week

(Public Scuba Diving / Training of police/rescue personnel in 3,400 acres of the Cooling Lagoons)

1. police/rescue - 10 divers x 6 times a year
2. Recreational scuba diving - 15 divers x 10 times a year

(Public Access adjacent State Roads - Main Reservoir- approximately 145 miles of shoreland x 365 days)

1. All sources throughout the entire year = 20,000

2. Acknowledgements: FOLA wishes to acknowledge the Lake organizations, Campgrounds, Marina's, Lake Anna Maps and the Lake Anna State Park that contributed data to facilitate this first comprehensive view of the many recreational opportunities and the public uses that take place on Lake Anna. We apologize if we missed some visitor accesses in this first statistical summary, but will strive to include and update all others in future publications.

3. Overview: Lake Anna is a 13,000 acre lake (3rd largest in state) located in Louisa, Spotsylvania and Orange Counties, Virginia. The main reservoir has 9,600 acres of water, while the cooling lagoons have 3,400 acres. There are approximately 5,000 private residences adjacent to the entire 220 mile shoreline. Over 100 Businesses, Marinas, Campgrounds, Motels, Realtors, Lake Anna State Park, etc. depend on the quality of the water and water level within the lake. The three counties depend on the high real estate assessments/taxes received from lake property owners. Ninety-nine (99) % of the heated water from the adjacent power plant circulates at 2 million gallons per minute. It goes from the power plant, through the cooling lagoons, dike 3, and back upstream in the main reservoir returning to the power plant for another cycle. As a result, the water in the cooling lagoons directly impacts both sides of the lake. The lake provides recreation for close to 3 million visitor recreation days annually to residents of the surrounding counties, plus frequent visitors from throughout Virginia, Washington D.C. and Maryland.

4. Lake Anna Residences surround the shoreline of the lake on the both the Main Reservoir and Cooling Lagoons. Both residential owners and their guests recreate on Lake Anna and reasonable estimates are included in the Statistical Summary.

5. Additional Public Access to Lake Anna also occurs: **(1) Main Reservoir** through Marina's, Campgrounds, the Lake Anna State Park, many locations where the lake adjoins the state roads and bridges, plus the Dike 3 Public Fishing Area and **(2) Cooling Lagoons** also at the Dike 3 Public Fishing Area, plus the many areas that the lake adjoins the state roads and bridges that span the cooling lagoons.

FRIENDS OF LAKE ANNA (FOLA)

STUDY METHODOLOGY USED TO DEVELOP LAKE ANNA, VISITOR RECREATION DAYS STATISTICAL SUMMARY (Nov 2010)

6. Historical Projection on Visitor Recreation Days. In 1971, the Virginia Commission of Outdoor Recreation with the support and assistance of the Virginia Electric and Power Company prepared a Land Use Plan for the North Anna Reservoir (Lake Anna). This plan projected residential development on both the main reservoir & cooling lagoons, plus marina's, campgrounds and a state park on the main reservoir. The plan also said "it is reasonable to expect recreation activity to range between 2,300,000 to 3,500,000 recreation days by the year 2000 due to regional growth around the reservoir.

7. PRODUCTION OF THE FIRST STATISTICAL SUMMARY

The first Lake Anna Recreational Days statistical Summary was produced using both KNOWN (published details) and EDUCATED ESTIMATES OF ACTIVITY. A portion of the KNOWN data was collected from the various campgrounds, marina's, state park, etc. as of 30 November 2010. A portion of the KNOWN data was proprietary data supplied by the individual campground and marina owners/representatives and can be used in the statistical summary only, but the individual details are not to be disclosed otherwise per agreement. The KNOWN Lake Anna State Park data was supplied by the Lake Anna State Park.

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	MAIN RESERVOIR	COOLING LAGOONS
Sub-Division (Residence/Guests)	1,323,014	437,360
Non-Subdivision (Residence/Guests)	266,368	142,118
Public Campgrounds	167,532	0
Public Marina's	304,852	0
Public Access (Adjacent State Roads)	20,000	7,550
Lake Anna State Park	300,728	0
Total	2,382,494	587,028

Lake Anna Grand Total – 2010 Visitor Recreation Days (2,382,494 + 587,028) = 2,969,522