

50-160

March 6th 1995

PAMELA BLOCKEY-O'BRIEN
D23 Golden Valley, Douglasville, GA 30134

Memo to : THE EXECUTIVE DIRECTOR, U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON D.C. 20555-0001

Re: Extra Information to be added to my 2,206 Petition on the Neely Nuclear Research Reactor on the Georgia Tech Campus, Atlanta Ga. Docket 50-160 .

1) With regard to the potential for far reaching groundwater contamination in case of accident or terrorist attack, and/or as a result of the contamination from dumping radioactive waste to aging sewers which break , and "backflooding" in heavy rain : SPRING St. in Atlanta, which runs through downtown and past/in the vicinity of The Tech Campus, was named for the drinking water spring for area residents many years ago under the street (Atlanta History Center Staff) I am sure you are aware that underground springs often run into underground lakes/caves, rivers etc. which may or may not re-surface in the area. Old records show that there are numerous area wells, most if not all are no longer in use, in the area , some shallow, some deep, and some giving great volumes of water, example:

Well No.	approx. location	depth	depth to water	gallons/minute
81	1355 Mescaline St. NW	350 ft	30 ft	110
153	794 Marietta St. NW	575 ft	40 ft	50
154	"	500 ft	18 ft	80
104	North Ave & McAfee at Tech	51 ft	24 ft	? test well
165	Virginia Pl. NE	400 ft	40 ft	27
162	1365 Mescaline St NW	450 ft	35 ft	70
163	"	495 ft	35 ft	115
112	Atlanta & Foundry Sts	278 ft	?	150

Other wells all around the area : well 79=60 g/m , well 78=35 g/m , well 115=130 g/m, well 136=57 g/min. well 164=74 g/m , well 192=1/2 g/m (private), well 92=30 g/m, well 96=6 g/m, well 97=14 g/m 120=10 g/m

There are other wells , plus there was a an underground spring located at 247 Courtland St. with a yield of 35 gallons a minute. Some of the roads may not exist by the same name any more, but the well locations are also marked on the maps so one can see where they are located in relation to the reactor. What it proves, is that an awful lot of rapidly flowing water was located not that far below the surface in terms of depth to groundwater in many cases in close geologic proximity to where they put the reactor. You can check this by researching : "Geology and Groundwater Resources of the Atlanta Area, Georgia, by S.M. Herrick and H.E. Legrand Published in Atlanta in the year 1949 by the State, in cooperation with the Geological Survey, US Department of the Interior, Washington, DC, Georgia Geological Survey Bulletin Number 55. The section on Fulton County. The authors note in the text that "the regional and local structure of Atlanta favors the storage and circulation of moderately large quantities of groundwater." (page 87.) The spring water at the Courtland St. Location came out of the ground at a temperature of 64 degrees F. If that area of Courtland St. is still the same as in 1949, the spring would be about 2 miles south/s.e. of the Ga. Tech campus. Its hard to tell. If that temperature is indicative of groundwater/area spring temperatures, it would make an interesting combination if the reactor core/contents went down a sinkhole breaking apart in the process and hit groundwater/springs during a loss-of-coolant accident or without one. (up to 450 C hitting 64 F and the whole thing radioactive...) 2) With regard to the dumping of radioactive waste to sewers/waters : NRC does not seem to understand, that if there is an unexpected release of large amounts of contaminants -- which has happened at the Neely Reactor and elsewhere, sewage treatment plants and downstream so-called "clean water" intakes CAN NOT BE NOTIFIED IN TIME, unless they were a very long way downstream, and you would have to notify all of them to shut off water intakes. Any workers in the sewers and at the local plants could be contaminated. Of course river sediment and aquatic species become contaminated. Up in Washington you may not see a lot of people fishing in the Potomac, but elsewhere, including down here, lots of people fish, many because of hunger. And at the rate Newt Gingrich and pals are going trying to take food out of the mouths of poor children (while they all eat like Kings up on Capitol Hill) a lot more rural poor will be fishing for food. Mercy is in short supply nowadays. At those so-called "prayer breakfasts" politicians and businessmen seem to be into, it wouldn't surprise me if they were not all praying for submachine guns to blow the poor off the face of the earth. Poor people eating fish contaminated with chemicals or radioactive substances certainly isn't high on their list of priorities, but it should be on the NRC's list.

By the way, writing to you is like writing into a Black Hole. I mean, I'm sending you all this information and you haven't even written to say that you're glad I can use a decent typewriter so

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you can read the stuff !! I suppose you and the NRC are all too busy. I believe NRC is trying to figure out new and wonderful ways to recycle radioactive waste (again....) I have a suggestion : DON'T. Just isolate the damned stuff in monitored above ground storage and concentrate on rendering it harmless .And don't even THINK of exporting it somewhere else, which brings me to another point: NRC should not allow the export of nuclear reactors , plutonium, high-enriched uranium or u-233 , or heavy water or nuclear grade graphite, or import of same. It is utter foolishness. Any country that has a nuclear reactor can ultimately make a bomb or figure out how to do it. The transportation risks of things like plutonium are horrendous, for example, too. The DOE needs its head read for bringing all that shipment from the former USSR to the Oak Ridge earthquake zone. We have enough to worry about here as it is. I would like this to be added to my 2.206. Just because Jimmy Carter, the nuclear engineer, and the State Dept. and goodness knows who else came up with the stupid idea of providing North Korea with new reactors , doesn't make it right. The US shouldn't have gotten into the business of nuclear energy and weapons to begin with, and passing this sort of technology around like it's candy is really disgraceful, it just spreads the dangers and radioactive contamination inherent in every nuclear enterprise around on even more people. State Department should have nothing to do with it, what do they know at the State Department on nuclear dangers ? Probably nothing. State Department Heads are political appointees and if the recent past and current situation is an indicator , not only would it probably take them 24 hours to locate the town of Magadan on a map, I probably speak more languages than they do! George Schultz and Bechtel notwithstanding ! (Now that's a track record, Bechtel I mean!) So, just add that in too please. Someone has to have some common sense and see that importing and export things nuclear of the above nature should be stopped.

Please grant my petition in full. It's all very basic and sensible and will make this earth a lot safer and cleaner for future generations, improve health and help prevent many a serious situation.. It should also improve the situation for wild creatures and aquatic species and help prevent further contamination of the nations waters and the oceans of the world.

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Ref. EDO 10598

Russell, NRR

Cys: Taylor
Milhoan
Thompson
Blaha
Cyr, DGC
Ebnetter, RII
Lieberman, OE
Bernero, NMSS
Beckjord, RES

NRR RECEIVED: MARCH 14, 1995
NRR ACTION: DOPS:GRIMES

NRR ROUTING: RUSSELL
MIRAGLIA
THADANI
ZIMMERMAN
CRUTCHFIELD
BOHRER

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DOPS
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PAMELA BLOCKEY-O'BRIEN
D23 Golden Valley, Doughlassville, GA 30134



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The Executive Director,
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

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