

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

JUN 1 1982

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IN THE MATTER OF)

UNITED STATES DEPARTMENT OF ENERGY)

PROJECT MANAGEMENT CORPORATION)

DOCKET NO. 50-537

TENNESSEE VALLEY AUTHORITY)

(Clinch River Breeder Reactor
Plant))

CITY OF OAK RIDGE'S RESPONSE
TO THE NRC STAFF'S
SECOND SET OF INTERROGATORIES

Pursuant to 10 C.F.R. 2.740(b), the City of Oak Ridge hereby responds to the NRC Staff's Second Set of Interrogatories dated April 15, 1982.

INTERROGATORY I

Has the City conducted or analyzed studies which estimate the increased enrollment at City schools which is attributable to the dependents of primary construction workers associated with CRBR?

RESPONSE

The Board of Education has conducted no study with reference to the increased enrollment at City schools which would be attributable to the dependents of primary construction workers associated with the CRBR. The Board of Education has experienced in the past the increased enrollment during periods of construction with similar numbers of workers anticipated for the CRBR. Increases

have been experienced especially at two schools (Cedar Hill and Willowbrook) which serve areas within the City where the majority of rental properties are found, but the increased enrollment has not been of a great magnitude and the Board believes that there is adequate capacity to accomodate increased enrollment.

INTERROGATORY II

Has the City conducted or analyzed any studies prepared to estimate the expected distribution in the City school system of dependents of primary construction workers associated with CRBR?

RESPONSE

The City has conducted no surveys or analysis but believes that there will be two schools which will receive the majority of students who are dependents of CRBR primary construction workers. The basis of this opinion is the City's experience with similar construction projects and the location of rental properties in these two school districts.

INTERROGATORY III

Does the City have data on current enrollment and capacity of City schools which are expected to absorb children of CRBR construction workers?

RESPONSE

- (a) Yes
- (b) Current enrollment (April, 1982) 4,900
Capacity 6,000

While the school facilities have projected a capacity of 6,000, the Board of Education believes that actual capacity is less and would be dependant on age group and distribution of students.

INTERROGATORY IV

Does the City have any plans under discussion or already approved for the capital expansion of City schools identified in interrogatory 4?

RESPONSE

No

INTERROGATORY V

Does the City have any data on the number or percentage of City of Oak Ridge pupils currently bussed to school?

RESPONSE

(a) Yes

(b) Morning (winter)	29%
(spring)	26%
Afternoon (winter)	42%
(spring)	37%

INTERROGATORY VI

Does the City believe that the children of primary workers associated with CRBR would alter the percentage of bussed pupils provided in interrogatory 5(b)?

RESPONSE

No substantial increase in the percentage of bussed students is anticipated.

INTERROGATORY VII

Does the City believe that it will be necessary to finance school system capital construction projects in

City because of increased enrollment caused by dependents of primary construction workers associated with CRBR?

RESPONSE

No

INTERROGATORY VIII

Has the City conducted a study or performed an analysis of a study to estimate the increased burden on local public services (i.e., roads, sewers, water, schools, fire protection, etc.) expected in the City as a result of CRBR construction?

RESPONSE

(a) The City has analyzed its general revenue sources that support local public services, and has reviewed the scale of CRBR impacts.

(b) Without basing its conclusions on any single study, the City finds it apparent that increased burdens on local public services resulting from CRBR construction will be generally slight, relative to the on-going delivery of services to the existing residents and employees of industrial and commercial establishments in the area. Presentations by the East Tennessee Energy Projects Coordinating Committee and by Project Management Corporation and East Tennessee Development District staff in June of 1976, as well as Sections 8.0 and Appendix C of CRBRP Environmental Report, Volume 3, PMC, support the scale of impacts.

However, this burden already is distributed far more heavily on local homeowners than on the commercial and

industrial sector in Oak Ridge, compared to other Tennessee cities. Illustrating this fact is the following comparison based on data from The 1980 Annual Survey of State and Local Governments in Tennessee, Tennessee Taxpayers Association, Nashville, November 1980, "Analysis of 1979 Assessed Valuations in Certain Cities and Towns," pp. 80-81:

	<u>Total Industrial & Commercial Assess- ments, %</u>	<u>Residential & Farm Assess- ments %</u>	<u>All Other Assess- ments</u>	<u>Total</u>
Four Metropolitan Cities (Chattanooga, Knoxville, Nashville, — USD & Memphis	47.4	30.6	22.0	100.0
106 Other Tennessee Cities	43.2	35.8	21.0	100.0
Oak Ridge	30.0	56.4	13.6	100.0

It is evident that any increase in service costs that is not accompanied by an equivalent or more favorable distribution of the tax load between the industrial/commercial sectors and the residential sector will only aggravate the existing inequity.

INTERROGATORY IX

Does the City have any plans under discussion or approved plans for capital expansion of the City public facilities to serve the increased demand as a result of CRBR construction?

RESPONSE

No

INTERROGATORY X

Does the City have any proposed or approved plans for increases in City employment to serve the increased demand for City services as a result of CRBR construction?

RESPONSE

No

INTERROGATORY XI

If the answer to interrogatory 10(a) is yes, describe in detail what method(s) the City is most likely to use to finance new capital construction which is required to serve increased demand as a result of CRBR construction.

RESPONSE

N/A

INTERROGATORY XII

If the answer to 11(a) is yes, describe in detail what method(s) the City will use to finance increased operating costs of local public sector services as a result of CRBR construction.

RESPONSE

N/A

INTERROGATORY XIII

Has the City made or used any projections of the population in the period of 1981-1991 for the City?

RESPONSE

(a) Yes, the City has made various projections of its population in the period 1981-1991. The City has noted that such "projections for areas of Oak Ridge's size and age are difficult to formulate accurately, especially when considerable employment is subject to fluctuations on a yearly basis through the Federal budget process. At best, estimates can be expected to be realized within a few years of the dates

anticipated. For this reason, plans should account for population increases without placing too much reliance on projection periods."

(b) The attached projection assumed no annexation of residential areas, that population in existing residences will decline, on the average, and that population growth will remain more dependent on housing growth than on fluctuations in employment levels, among other assumptions. As conditions change, fresh population projections should be made using appropriate new assumptions.

INTERROGATORY XIV

Does the City have a schedule or projections for new industries or construction projections expected in the City for the period of 1981-1991?

RESPONSE

(a) No, the City recognizes that the City's physical area is too small, and the industrial/construction decision arena too vast and far-spread, for meaningful projections regarding industrial investment within the City over a ten-year time span. With confidence that such investment is both likely and desirable, the City has concentrated efforts on institutional pathways for acquiring unimproved surplus land, on financing and encouraging the necessary infrastructure, and on making such improved land available to industrial investors in the tax-paying sector. There has been a role for the municipality in such activity that

neither other levels of government (state, federal) nor the private sector could fill, although these other sectors certainly play other, essential roles in this process of increasing the City's industrial diversity and self-sufficiency.

The City makes every effort to be aware of any new industries or construction projects considered or proposed by various parties, but a long record of postponements, cancellations and decisions to locate elsewhere suggests that cautious rather than firm optimism is an appropriate City position. Our investments in intra-structure must have a fair chance of leading to investments by industry.

INTERROGATORY XV

If the answer to interrogatory 14(a) is yes, does the City have employment projections as a result of new industries or construction projects expected in the City in the period between 1981-1991?

RESPONSE

(a) Although the City has found it cannot rely on schedule projections of new industrial development, it remains interested in all such potential developments together with their resulting jobs.

(b) Illustrative of one such projection, the City projected in 1976 that successful development of its Valley Industrial Park, totalling 118 acres, would result in a direct employment impact of between 475 and 900 industrial jobs. In 1976, no single occupant of this park could be identified.

INTERROGATORY XVI

Has the City conducted or used any studies estimating the employment or income multipliers for the various types of projects associated with CRBR offering basic industry employment in the City?

RESPONSE

The City has conducted no independent studies estimating the employment or income multipliers for whatever projects might be associated with CRBR.

The City has noted the employment multipliers discussed in Section 8 of the CRBRP Environmental Report, Volume 3, PMC, through Amendment 11.

INTERROGATORY XVII

Has the City conducted or used studies estimating the amount and distribution, i.e., state, county, local, of various sources of tax revenues expected to be generated as a result of payroll spending by the primary work force of the CRBR during the construction and operational phases of the project?

RESPONSE

The City has conducted no independent studies estimating the amount and distribution of various sources of tax revenue expected from CRBR payroll spending during construction or operation of the project.

The City has noted the analysis of expenditures and revenues in Section 3 of Appendix C of the CRBRP Environmental Report, PMC.

INTERROGATORY XVIII

Has the City conducted or used any studies estimating the manner in which the lack of public sector service capacity (i.e., roads, sewers, water, school, fire protection, etc.) might prevent, retard or aggravate growth in the City?

RESPONSE

The City on many occasions has conducted or issued studies addressing various service capacity limitations and their effect on the City's functioning.

At various times the City has conducted or used studies that evaluated such services as:

Fire protection and location of fire station; transportation needs and priorities in relation to traffic hazards; overall review of the municipal water distribution system; the solid waste collection and disposal system and the waste water collection and treatment system; the need for and feasibility of a local general aviation airport; and various surveys and overviews relating the City's service system to projected needs.

Such studies include:

Fire Department Station Relocation Study, City of Oak Ridge, April 1967; Clinton-Oak Ridge Transportation Study, 1967-1987, Volume I, II, prepared by the University of Tennessee Civil Engineering Department, Knoxville; Engineering Study of Water Distribution System, Pitometer Associates, 1970; Solid Waste Management Report, City of Oak Ridge, December 1974; Airport Feasibility Study, City of Oak Ridge, April 1976; Additions and Modifications to Existing Waste Water Collection and Treatment and related studies (Oak Ridge 201 Feasibility Planning Area), Conseur, Townsend & Associates, March 1974, October 1975, and June 1976; Preliminary Emergency Impact Assistance Plan, East Tennessee Development District, November, May 1980; Hazardous Location Traffic Study, (Anderson County), East Tennessee Development District and Wilbur Smith Associates, 1980.

INTERROGATORY XIX

Does the City have under disucssion plans or approved plans to improve existing roads or construct new roads in anticipation of CRBR construction related traffic?

RESPONSE

Road improvements are presently underway in the area in which CRBR is to be located. There are no plans for additional road improvements in anticipation of CRBR construction related traffic.

INTERROGATORY XX

Has the City conducted or used any studies estimating the cost of road maintenance resulting from heavy trucks or established roads leading to the CRBR site?

RESPONSE

The City has conducted no studies estimating the cost of road maintenance. The City has experienced damages to its roads from heavy trucks using its roads during previous construction projects similar to CRBR.

INTERROGATORY XXI

Has the City conducted or used studies relating to the adequacy of the capacity of health services in the City?

RESPONSE

The City has conducted no studies and is not aware of the existence of any study relating to the adequacy of health services in the City.

INTERROGATORY XXII

Has the City conducted or used any studies estimating the effect of CRBR construction on the capacity of health services in the City?

RESPONSE

The City has conducted no studies and is not aware of the existence of any study relating to the effect of CRBR on the capacity of health services in the City.

INTERROGATORY XXIII

Does the City have zoning plans under discussion or approved plans to regulate commercial and residential development?

RESPONSE

Yes, the City has had an adopted Zoning Ordinance governing its incorporated municipal limits ever since incorporation as a municipality.

The Zoning Ordinance and Zoning Maps (Part "A" and Part "B") are comprehensive zoning regulations adopted by the City of Oak Ridge. The Zoning Ordinance is codified and copies of the same are available for inspection in the City Clerk's office and also at the Oak Ridge Public Library.

INTERROGATORY XXIV

(a) How many acres of privately owned land in the City are zoned for industrial uses?

(b) How many acres of land in this category are occupied by industrial uses?

(c) How many acres of privately owned industrially zoned land are occupied by non-industrial land uses?

(d) How many acres of privately owned industrially zoned land are undeveloped?

(e) How many acres of this category of land are served by sewer, by water, and by existing streets?

(f) The answer to (e) above indicates industrially zoned land not served by these capital facilities, does the City have a capital budget or program to provide such facilities?

RESPONSE

Since the City functions as part of the conduit to move land into private industrial use, the response includes the municipally-owned land as well as the privately-owned land zoned for industrial use where appropriate. Not included are the approximately 37,900 acres of land owned by the U.S. Government (Tennessee Valley Authority or Department of Energy) which are zoned in the industrial categories of Industrial 2 or F.A.I.R., (Forestry, Agriculture, Industry and Research). This total includes the CRBR site.

The following information is provided as of May, 1982:

	<u>Private (acres)</u>	<u>Municipal (acres)</u>	<u>Total (acres)</u>
(a) Lands zoned for industrial use (Ind-1, Ind-2, F.A.I.R)	614.43	199.30	813.73
(b) Industrially zoned lands occupied by industrial uses	279.01	13.77	292.78
(c) Industrially zoned lands occupied by non-industrial uses	0	3.52	3.52
(d) Industrially zoned lands which are undeveloped (i.e. without industrial buildings)	335.42	182.01	517.43

	Private <u>(acres)</u>	Municipal <u>(acres)</u>	Total <u>(acres)</u>
(e) Portions of undeveloped, industrially zoned lands which are served by sewer, water, and existing streets	83.01	142.08	225.09
(f) The City does, in fact, review annually a capital improvement pro- gram which includes such items as the extension of water, sewer, or streets to industrial areas.			

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PROJECT MANAGEMENT CORPORATION

DOCKET NO. 50-537

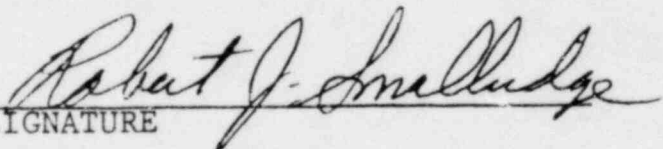
TENNESSEE VALLEY AUTHORITY

AFFIDAVIT OF ROBERT J. SMALLRIDGE

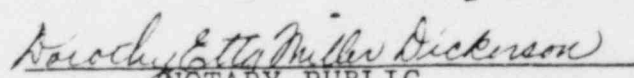
Robert J. Smallridge, being duly sworn, deposes and says
as follows:

1. That he is employed as Superintendent of Schools
of the City of Oak Ridge and that he is duly authorized to
answer interrogatories numbered 1 through 7 in the second
set.

2. That the above mentioned and attached answers are
true and correct to the best of his knowledge and belief.


SIGNATURE

Subscribed and sworn to before me this 25th day of
May, 1982.


NOTARY PUBLIC

My Commission Expires:

March 19, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF

U.S. DEPARTMENT OF ENERGY

PROJECT MANAGEMENT CORPORATION

DOCKET NO. 50-537

TENNESSEE VALLEY AUTHORITY

AFFIDAVIT OF PETER H. COHAN

Peter H. Cohan, being duly sworn, deposes and says as follows:

1. That he is employed as Assistant Superintendent for Planning and Finance of the City of Oak Ridge and that he is duly authorized to answer interrogatories numbered 1 through 7 in the second set.

2. That the above mentioned and attached answers are true and correct to the best of his knowledge and belief.

Peter H. Cohan
SIGNATURE

Subscribed and sworn to before me this 25th day of May, 1982.

Dorothy E. Miller Dickerson
NOTARY PUBLIC

My Commission Expires:

March 14, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF

U. S. DEPARTMENT OF ENERGY

PROJECT MANAGEMENT CORPORATION

Docket No. 50-537

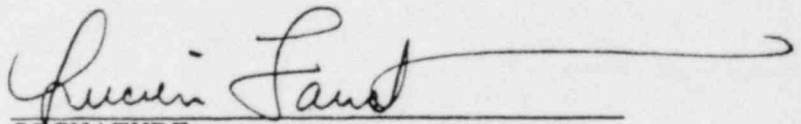
TENNESSEE VALLEY AUTHORITY

AFFIDAVIT OF LUCIEN FAUST

Lucien Faust, being duly sworn, deposes and says as follows:

1. That he is employed as Planning Director of the City of Oak Ridge and that he is duly authorized to answer interrogatories numbered 8 through 20, 23 and 24 in the second set.

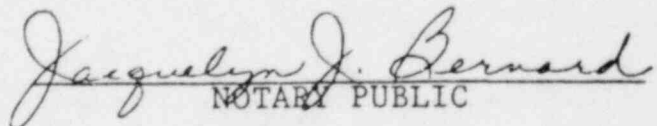
2. That the above mentioned and attached answers are true and correct to the best of his knowledge and belief.


SIGNATURE

Subscribed and sworn to before me this 24th day of May, 1982.

My Commission Expires:

Oct. 19, 1982


NOTARY PUBLIC

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF

U. S. DEPARTMENT OF ENERGY

PROJECT MANAGEMENT CORPORATION

DOCKET NO. 50-537

TENNESSEE VALLEY AUTHORITY

AFFIDAVIT OF M. LYLE LACY

M. Lyle Lacy, being duly sworn, deposes and says as follows:

1. That he is employed as City Manager of the City of Oak Ridge and that he is duly authorized to answer interrogatories numbered 8 through 24 in the second set.

2. That the above mentioned and attached answers are true and correct to the best of his knowledge and belief.

M. Lyle Lacy
SIGNATURE

Subscribed and sworn to before me this 24th day of May, 1982.

Jacquelyn J. Bernard
NOTARY PUBLIC

My Commission Expires:

Oct. 19, 1982

Year	Oak Ridge		Anderson County		Knoxville		Knox County	
	Population	% Growth	Population	% Growth	Population	% Growth	Population	% Growth
1950	30,229	-	59,407	-	124,769	-	223,007	-
1960	27,169	-10.1	60,032	1.0	111,827	-10.3	250,523	12.3
1970	28,319	4.2	60,300	0.4	174,587	56.1	276,293	10.2
1975	28,000	-1.1	61,911	2.6	179,999	3.0	303,379	9.8
1980	30,100 ²	7.5	64,909	4.8	181,918	1.0	335,298	10.5
1985	32,000 ²	6.3	69,948	7.8	182,910	0.5	360,097	7.4
1990	32,500 ^{2*}	1.6	74,988	7.2	183,122	0.1	374,431	4.3

Table 1Actual and Projected Population for Oak Ridge and Surrounding Areas

*This figure is projected to remain constant for the years 1995 & 2000

Sources: ¹Land Use Marketability Study, University of Tennessee, 1977; plus ²Planning Office revisions

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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WJH

In the Matter of)	
UNITED STATES DEPARTMENT OF ENERGY)	
PROJECT MANAGEMENT CORPORATION)	DOCKET NO. 50-537
TENNESSEE VALLEY AUTHORITY)	
(Clinch River Breeder Reactor Plant))	

CERTIFICATE OF SERVICE

Service has been effected by deposit in the United States mail,
first class, on this date, the 26th day of May 1982, to the following:

Marshall E. Miller, Esquire
Chairman
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U. S. Nuclear Regulatory Commission
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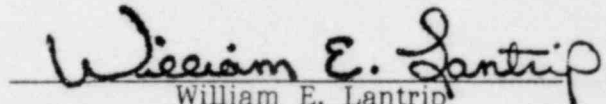
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