

TENNESSEE VALLEY AUTHORITY

HARTSVILLE NUCLEAR PLANTS
SOCIOECONOMIC MONITORING AND MITIGATION REPORT
HNP SMR - 9
September 30, 1980

Knoxville, Tennessee
April 1981

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CONTENTS

	Page
Background and Highlights	v
I. General Status of Employment as of September 30, 1980	1
II. General Characteristics of Movers	3
III. Secondary Employment	4
IV. Functional Area Impacts and Mitigation Actions	7

Tables

Table 1. Estimates of Population and Population Change between April 30, 1976 - September 30, 1980	6
Table 2. School Systems' Report of Hartsville Nuclear Plants Direct Impact Students	7
Table 3. TVA Local Planning Assistance Payments	9
Table 4. Traffic Evaluation	11
Table 5. Summary of TVA Mitigation Expenditures as of September 30, 1980	15

Appendixes

Appendix A - Detailed Survey Results

Table A- 1. Town of Current Residence	19
Table A- 2. Source of Location of Construction Employees	20
Table A- 3. Distribution of Movers and Associated Population by County and Community	22
Table A- 4. Comparison of Survey Results with Projections for Selected Parameters	23
Table A- 5. Mover Summary	24
Table A- 6. Macon - Employees Living Within the County	25
Table A- 7. Smith - Employees Living Within the County	26
Table A- 8. Sumner - Employees Living Within the County	27
Table A- 9. Trousdale - Employees Living Within the County	28
Table A-10. Wilson - Employees Living Within the County	29

CONTENTS (continued)

Table A-11.	Carthage - Employees Living Within the City Limits	30
Table A-12.	Gallatin - Employees Living Within the City Limits	31
Table A-13.	Hartsville - Employees Living Within the City Limits	32
Table A-14.	Hendersonville - Employees Living Within the City Limits	33
Table A-15.	Lafayette - Employees Living Within the City Limits	34
Table A-16.	Lebanon - Employees Living Within the City Limits	35
Appendix B -	Secondary Socioeconomic Impact Monitoring of Hartsville Nuclear Plant Environmental Impact Area	36
Appendix C -	Traffic Level Defined	38
Appendix D -	Employee Questionnaire	39
Appendix E -	Socioeconomic Monitoring Cycle	42
Exhibits		
Figure 1 -	Towns Containing Construction Employees	43

HARTSVILLE NUCLEAR PLANTS

SOCIOECONOMIC MONITORING AND MITIGATION REPORT

Background and Highlights

In permits to construct the four-unit Hartsville Nuclear Plants located in Smith and Trousdale Counties, Tennessee, TVA agreed to undertake certain monitoring and mitigation actions to reduce the socioeconomic impact caused by the incoming population for the construction project. The impact area is defined as Trousdale, Smith, Macon, Sumner, and Wilson Counties, Tennessee. TVA also agreed to report to the Nuclear Regulatory Commission the results of the monitoring efforts and mitigation actions taken to mitigate the impacts.

This is the ninth in a series of semiannual reports which TVA agreed to submit to the Nuclear Regulatory Commission to report on the results of TVA's socioeconomic monitoring and mitigation efforts for the Hartsville Nuclear Plants. This report is for the period April 1, 1980, through September 30, 1980.

Employment dropped from 5,436 to 5,137 this period. The number of movers and population influx to Trousdale, Smith, and Wilson Counties was slightly lower than at the end of the previous reporting period. Macon County gained 6 movers this period, with the total population influx increasing from 435 to 463. The mover rate was 33 percent for a total of 1,709 movers.

TVA has made mitigation expenditures totaling approximately \$7.7 million. Approximately \$4 million of this amount was for employee transportation.

HARTSVILLE NUCLEAR PLANTS

SOCIOECONOMIC MONITORING AND MITIGATION REPORT

I. General Status of Employment as of September 30, 1980

A survey of all TVA employees as of September 30, 1980, was conducted during January of 1981. The timelag between employment and survey enables employees who moved to make personal adjustments and should provide a better picture of employee distribution, family characteristics, and housing choice. The employment had dropped to 5,137¹ employees, and information was available for 4,983 employees (97 percent). Of those who provided information, 1,658 employees indicated they had moved for a mover rate of about 33 percent (table A-1). Information on the family status and housing choice was obtained for those who moved (table A-5).

The data on movers have been extrapolated on a ratio basis to the total 5,137 employees which results in an estimated total number of movers of 1,709. Of the total, 1,321 movers located in the five impact counties; and 388 moved to other counties. As shown in table A-1 and figure 1, local workers (nonmovers) are commuting to the project from a much more widespread area.

Information on the distribution of both movers and residents is found in tables A-1, A-2, and figure 1. Additional information on the distribution and characteristics of movers is contained in tables A-3 through A-18.

¹Peak employment occurred the week of May 4, 1979, when total employment reached 6,996. At one time a higher peak was expected after a substantial decline based on a revised schedule for Unit B. Since that time Unit B has been indefinitely deferred; therefore, the likelihood of an employment level higher than the previous peak is unknown.

Table A-1 lists the town of current residence. This table is based on "Mailing Address" locations instead of jurisdictional locations. All employees are asked to provide a place name even though they may not live within any municipal limits. Figure 1 is based on this table. Table A-3 provides the movers' distribution which is based on city limits for the five impact communities and any other communities to which at least 50 employees moved.

Table A-2 shows both the origin and location of all employees. The diagonal line of the "From-To" tabulation shows resident employees. For example, resident employees from Trousdale County would be found by locating Trousdale County in the "From" column and going across the table to the "To" column which also reads Trousdale County. In this survey 177 residents of Trousdale County were employed at the end of September 1980. Movers are shown by all other data in this table. For example, seven employees moved from "Other Kentucky Counties" to Macon County.

Table A-4 of this report series contains a comparison of the survey results with the projections contained in the environmental impact statement (EIS). For a work force of approximately 5,000 employees, 54 percent had been projected to be movers. However, the survey found a mover rate of 33 percent. Sumner County is still receiving the largest share of movers (30 percent) compared with the projected 20 percent. Macon County is receiving the smallest number of movers at 9 percent which is close to the projected 10 percent. The mover rate to both Smith and Trousdale Counties is still much lower than projected. Smith County received only 11 percent

compared with the projected 20 percent, and Trousdale County received only 15 percent compared with the projected 30 percent. The mover rate to Wilson County remained low at 14 percent compared with the projected 20 percent. Although Sumner County is receiving the largest number of movers, the survey shows that the number of movers dropped from 518 to 513 since the last report. The number of movers to Sumner County is close to that projected, but all other counties are receiving far fewer movers than expected. Mover projections were made only for the five impact counties, but 388 employees moved to other counties. These 388 movers are widely dispersed throughout numerous counties with no resultant, significant adverse impacts.

II. General Characteristics of Movers

Total Project--Table A-5 contains data on family status and characteristics and housing choice for all movers. Table A-4 compares these results with TVA's projections on the characteristic of moving families. As of September 30, 1980, 77 percent of those employees who moved brought their families; and 23 percent moved without their families. School-age children per family averaged 0.9 compared with the projected 1.0, and the total average family size was 3.4 compared with the projected 3.0. The survey of housing choice shows 58 percent are living in houses, 21 percent in mobile homes, 14 percent in apartments, 3 percent in motel and sleeping rooms, and 5 percent in other accommodations. The "Other" category includes campers, motor homes, and vans.

Impact Counties and Communities

Data on family status and characteristics and housing choice for movers into each impact county are contained in tables A-6 through A-10 and for movers within the city limits of each of the impact communities containing at least 50 movers in tables A-11 through A-16.

Other Counties and Communities

TVA also accumulates data on counties and communities which are not part of the designated impact area. Once the construction-related inmoving population reaches a level of 50 inmovers for communities or 100 inmovers for counties, TVA begins monitoring and reporting impacts to ensure that no communities are inadvertently left out of the designated impact area. Hendersonville, with 71 inmovers as shown in table A-3, is a community outside the impact area which is being monitored. However, Hendersonville with an approximate population of 28,000 is not adversely affected by the influx of population it is servicing. The level of movers into Nashville and Davidson County has dropped below the level which TVA monitors and reports during this reporting period.

III. Secondary Employment

Secondary employment impact is defined as a temporary increase in the trade-and service-related resident population which can be attributed to the Hartsville project. If the population increase in a county is greater than that arising directly from the project or from other primary employment increases, the possibility of secondary employment exists.

The survey results of September 30, 1980, revealed a decline in project-related population in three of five impact area counties from the March 31, 1980, survey. Macon County experienced a slight project-related increase of 28 persons to a total of 463 and Sumner County a very slight increase of 8 persons to a total of 1,533. The peak population influx into both Macon and Sumner Counties was recorded in the September 30, 1979, employee survey at 479 and 1,596 respectively.

Table 1 contains data for the period April 30, 1976, to September 30, 1980, covering the period from start of construction to the date of the most current survey. All counties have experienced population change which cannot be explained by other primary employment. We have incorporated 1980 census population data in our population estimates but do not have the corresponding employment data from the same census data source. No firm judgement on secondary employment can be made at this time because compatible resident employment data are not available.

IV. Functional Area Impacts and Mitigation Actions

Education--Monitoring direct impact on education was conducted primarily through reports from the seven school districts and the Tennessee Department of Education. School districts and the department submit reports in October and May of each school year showing the names of students whose parents are employed at the Hartsville Nuclear Plants, the school previously attended, school and grade in which enrolled, and essential attendance and transportation information. A summary of school districts reports is shown in table 3. All school districts reported a smaller direct impact student enrollment than anticipated for school year 1979-80.

Table 1
ESTIMATES OF POPULATION AND POPULATION CHANGE
FOR MACON, SMITH, SUMNER, TROUSDALE, AND WILSON COUNTIES, TENNESSEE
FOR MONITORING SECONDARY SOCIOECONOMIC IMPACTS OF HARTSVILLE NUCLEAR PLANT CONSTRUCTION
APRIL 30, 1976 - SEPTEMBER 30, 1980

	Population Estimate 4/30/76	Population Estimate 9/30/80	Change in Population Estimate 4/30/76 - 9/30/80	Change in Project* Related Population 4/30/76 - 9/30/80	Remainder of Nonproject Related Population as of 9/30/80	Change in Population Possible From Other Primary Employment	Change in Population Unexplained
Macon County	13,602	15,984	2,382	463	1,919	87	1,832
Smith County	12,643	15,249	2,606	501	2,105	1,926	179
Sumner County	69,544	88,071	18,527	1,533	16,994	9,525	7,469
Trousdale County	5,232	6,261	1,029	616	413	237	176
Wilson County	45,709	57,513	11,804	692	11,112	6,066	5,046

*TVA Employee Surveys.

Population estimates by Community Economics.

Community Economics
4/23/81

Table 2

SCHOOL SYSTEM REPORTS OF
HARTSVILLE NUCLEAR PLANTS
DIRECT IMPACT STUDENTS

June 1, 1980

<u>School System</u>	<u>Number of Children of Local Residents</u>	<u>Number of Children of Movers</u>	<u>Total</u>
Macon County	253	130	383
Smith County	278	68	346
Sumner County	435	353	788
Trousdale County	208	109	317
Wilson County	194	49	243
Lebanon City	88	48	136
Watertown City	<u>12</u>	<u>4</u>	<u>16</u>
TOTAL	1,468	761	2,229

TVA, the Tennessee Department of Education, and the seven local school districts in the impact area continue to operate under agreements for alleviating impacts on local school districts. Under these agreements, TVA provides funds for classrooms and schoolbuses. However, due to the previous impact aid payments and the small increase in direct impact students, TVA made no fiscal expenditures during this reporting period.

According to the school systems in the impact counties and the State Department of Education, TVA is continuing to meet its commitments; and the school systems are able to serve the direct impact students associated with the construction of the Hartsville Nuclear Plants.

Housing- The objective of the Hartsville Nuclear Plants' housing mitigation program has been to assist in the development of mobile home parks in Macon and Trousdale Counties in order to provide temporary housing for TVA construction workers. One hundred sixty-nine mobile home spaces have been developed through this program. The Shady Grove Mobile Home Park in Hartsville, Tennessee, has 93 spaces. At present there are 72 units occupied. The Hillsdale Mobile Home Park, located approximately seven miles from the construction site, has 45 of its 76 units presently occupied. The Upper Cumberland Housing Development Corporation has experienced financial difficulty and is still in the planning stages of liquidation of the Hillsdale Mobile Home Park.

Local Planning and Coordination Assistance--TVA is continuing to assist the local planning commissions affected by this project and has agreed to reimburse them for one-half of their cost in obtaining the services of Tennessee State Planning Office for a one-year period. The need for additional assistance to the local planning commissions is evaluated and negotiated on a year-to-year basis as appropriate. A summary of these payments is shown on table 3.

Table 3

TVA LOCAL PLANNING ASSISTANCE PAYMENTS

<u>Planning Commissions</u>	<u>Amount Paid This period</u>	<u>Total Paid to Date</u>
Hartsville-Trousdale County	\$ 1,000	\$ 5,308
Smith County	-	5,313
Sumner County	2,375	8,500
Wilson County	3,000	9,750
Carthage	425	3,677
South Carthage	625	3,069
Gordonsville	313	789
Lafayette	-	1,221
Gallatin	2,700	8,956
Lebanon	2,975	9,700
Hendersonville	2,231	8,956
Tennessee State Planning Office	-	20,000
TOTAL	\$15,644	\$85,239

Water and Sewer--The recently completed eight-inch waterline installation between the junction of East Main Street and McMurray Boulevard and extending eastward along McMurray Boulevard to the now abandoned pumping station east of Goose Creek has relieved low pressures which occasionally occurred in the Shady Grove Mobile Home Park and the elementary school area on Lock Six Road. It has also alleviated filling problems with the 150,000-gallon water tank which TVA provided and located near the nuclear plant construction site to furnish demand water to the plant and surrounding area.

TVA continues to assess the water and sewage treatment systems in the impact counties to detect possible adverse mover impacts as they occur. However, these assessments have not indicated a need for additional water and sewer mitigation assistance. Should any significant adverse impacts be observed, TVA will immediately follow through with corrective measures; but it is not anticipated that significant additional expenditures will be required.

Health and Medical Services--TVA has continued to assess the health needs of the five-county impact area; however, these assessments have not indicated a need for additional health mitigation efforts. It is not anticipated that significant additional expenditures will be required.

Intergenerational Child Care Program--Under a contract with Mid-Cumberland Human Resource Agency to operate the Hartsville Intergenerational Child Care Program, TVA has paid \$10,448 this period.

Traffic--In accordance with an agreement between TVA and the Tennessee Department of Transportation, the department has been supplying TVA with traffic counts for 12 locations on a quarterly basis beginning in October 1975. With approximately 5,100 employees, peak-hour traffic on Highway 25 was 440 vehicles per hour (VPH) east of the site and 860 VPH west of the site. Counts for other key highway segments are shown in the following table. Peak-hour volumes at all these locations are within the limits of acceptable volumes for level of service D operation of these highways (see

appendix C). In an effort to mitigate the peak-hour traffic volumes, TVA is continuing the employee transportation program (commuter vans and buses).

Table 4

TRAFFIC EVALUATION

(October 1975 - September 1980)

	Number of Vehicles During Peak Hour*		TVA Commuter Traffic
	1975	1980	
Highway 25 East of Plant	120	440	300
Highway 25 West of Plant	120	860	730
Highway 25 West of Hartsville	290	760	460
Highway 25 West of 231 Junction	210	510	280
Highway 231 South of 25 Junction	150	270	120
Highway 231 North of Lebanon	150	280	100

*The peak hour occurred during the 3-4 p.m. hour.

Employee Transportation--During this period eight buses were added to the employee transportation program. This brought the total number of buses operating to and from the Hartsville Nuclear Plants to 24, as follows: Nashville - 8 buses; Gallatin - 4 buses; Lebanon and Lafayette - 2 buses each; Portland, Hermitage, Mt. Juliet, Murfreesboro, Hendersonville, Joelton, and Whitehouse, Tennessee, and Scottsville, Kentucky - 1 bus each. During this same period the number of vanpools operating to the plantsite dropped from 131 to 56. Although ridership figures are not available for the privately owned vanpools, for the most part they have

kept their groups together and are assisting in reducing the amount of vehicular traffic on Highway 25. Forty-one percent of the day shift work force commutes in Agency-owned buses or vanpools. This accounts for approximately 787 cars being kept off the road. TVA's expenditures for employee transportation for this period was \$622,322.

Local Government Budgets--The impact on the budgets of local governments in the impact area of the Hartsville construction project is measured on an annual basis. This measurement is made by projecting the project-related revenues to be received by the local governments. The projected revenues and expenditures are then compared to determine whether deficits will occur. TVA then negotiates and executes contracts with local governments to provide payments to cover the amounts of any projected deficits. Payments were not made to local governments during this period.

TVA continues to monitor local government impacts after the contracts are negotiated; and if additional impacts occur, TVA will negotiate with the local governments in order to remove the deficit.

Local Recruitment and Training--During the period April through September 1980, 338 apprentices were in training in 15 skilled craft programs at the Hartsville project. During that period, 85 apprentices satisfactorily completed the training requirements of their respective programs and were promoted to craft journeymen. Also, 12 apprentices were terminated from their respective programs for various reasons during that period.

Nearly all apprentices in training at the Hartsville project were recruited from the established recruitment area for that project which included the designated impact area. A few TVA apprentices were transferred to the Hartsville project prior to the period to gain work experience.

To help meet the Valley-wide demand for craftsmen in skills deemed critical and necessary to the construction of nuclear plants and maintenance of fossil-fired plants and to reduce mover impact to communities adjacent to TVA's major construction sites, training programs for two of these crafts--steamfitters and boilermakers--have been operated at the Hartsville Vocational School. This approach allows local residents to take advantage of training to qualify them to compete in the local and regional labor market, resulting in a more stable work force and lower demand for in-movers.

Seventy-three steamfitter program graduates are employed at the Hartsville Nuclear Plants. Seventy-nine graduates of the boiler-maker program are employed at TVA plants in the area. Thirty-two students began the one-year boilermaker program January 7, 1980. All are from the local recruitment area.

Recreation--TVA staff continued to monitor impacts on community recreation during the reporting period. Substantial progress was made in implementing park improvement projects in the impact area. Contracts were signed with the cities of Hartsville, Lebanon, and Gallatin and Trousdale, Smith, and Macon Counties to provide \$218,760

for recreation development projects. An additional \$450,000 was provided through Federal grants, local revenues, and inkind services to supplement TVA's financial assistance. Contracts implemented during the reporting period are as follows:

	<u>Total Committed This Period</u>	<u>Total Committed To Date</u>
Hartsville/Trousdale County	\$ 20,000	\$ 35,520
Lebanon	51,760	51,760
Gallatin	67,000	67,000
Smith County	48,000	48,000
Macon County	<u>32,000</u>	<u>32,000</u>
	\$218,760	\$234,280

The level of TVA financial assistance for recreation mitigation is tracked to actual in-mover rates in the impact area. Other factors considered in determining TVA's level of assistance include the existing recreation service level, maximizing opportunities to combine several funding sources, evidence of local participation, and relative impacts considering communities' or counties' population and capability to absorb impacts.

TVA will continue to monitor community recreation impacts after contracts have been implemented to ensure the adequacy of the project and to determine if additional action is necessary.

Summary of Mitigation Expenditures--In the functional areas of mitigation, TVA has made payments totaling \$7,650,894 as noted in table 5.

Table 5

SUMMARY OF TVA MITIGATION EXPENDITURES

AS OF SEPTEMBER 30, 1980

	<u>Expenditures This Period</u>	<u>Expenditures To Date</u>
Education	\$ -	\$1,523,084
Housing	-	423,000 ^a
Local Planning and Coordination	40,644	334,771
Water and Sewer	-	380,000 ^b
Health	-	108,772
Intergenerational Child Care Program	10,448	10,448
Local Governments	-	764,939
Employee Transportation	622,322	3,967,005
Recreation	<u>123,355</u>	<u>138,875^c</u>
TOTAL	\$796,769	\$7,650,894

a. Includes \$60,000 interest-bearing loan.

b. Includes \$125,000 noninterest-bearing loan.

c. Includes \$15,520 paid prior to reporting period, but not previously reported.

APPENDIXES

Table A-1

FOLLOW UP SURVEY
TOWN OF CURRENT RESIDENCE
HARTSVILLE NUCLEAR PLANT EMPLOYEES
ACTIVE EMPLOYEES 09-30-80

RUN DATE 02/23/81
RUN TIME 103519
REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
ALEXANDRIA	TN	11	33	44	680
BAXTER	TN	7	49	56	1,314
CARTHAGE	TN	61	117	178	2,491
COOKEVILLE	TN	32	74	106	17,800
CROSSVILLE	TN	13	38	51	5,381
DOWELLTOWN	TN	6	16	22	329
GAINESBORO	TN	9	37	46	1,101
GALLATIN	TN	300	354	654	13,362
GORDONSVILLE	TN	12	32	44	601
HARTSVILLE	TN	241	176	417	2,243
HENDERSONVILLE	TN	77	131	208	28,000
LAFAYETTE	TN	125	182	307	2,583
LEBANON	TN	181	231	412	12,492
MANCHESTER	TN	7	20	27	6,869
MURFREESBORO	TN	19	38	57	28,700
NASHVILLE	TN	46	408	454	469,000
PORTLAND	TN	17	46	63	3,081
RED BOILING SPRINGS	TN	14	48	62	956
SMITHVILLE	TN	9	94	103	3,762
SOUTH CARTHAGE	TN	6	21	27	959
SPARTA	TN	12	10	22	4,930
WESTMORELAND	TN	20	63	83	1,423
BETHPAGE	TN	19	44	63	400
CASALIAN SPRINGS	TN	52	42	94	150
COTONTOWN	TN	6	13	19	100
DIXON SPRINGS	TN	51	30	81	100
GOODLETTSVILLE	TN	10	46	56	7,541
HERMITAGE	TN	9	30	39	6,000
MADISON	TN	12	82	94	21,500
MOUNT JULIET	TN	32	75	107	1,568
OLD HICKORY	TN	11	49	60	6,000
PLEASANT SHADE	TN	15	26	41	150
RIDDLETON	TN	12	16	28	100
WATERTOWN	TN	7	25	32	1,061
WHITE HOUSE	TN	16	7	23	1,305
SCOTTSVILLE	KY	5	69	74	3,584
FOUNTAIN RUN	KY	5	4	9	128
SUBTOTAL		1487	2776	4263	
ALGOOD	TN	2	5	7	1,917
CELINA	TN	3	20	23	1,370
CHARLOTTE	TN	2	6	8	610
CLARKSVILLE	TN	1	8	9	44,900

Table A-1, Page 2

FOLLOW UP SURVEY
TOWN OF CURRENT RESIDENCE
HARTSVILLE NUCLEAR PLANT EMPLOYEES
ACTIVE EMPLOYEES 09-30-80

RUN DATE 02/23/81
RUN TIME 103519
REPORT 2

TOWN		MOVED TO TOWN	ALREADY IN TOWN	TOTAL	POPULATION
FRANKLIN	TN	0	5	5	11,298
GREEN BRIER	TN	3	29	32	2,279
LA VERGNE	TN	3	8	11	5,209
LIBERTY	TN	1	20	21	332
MCMINNVILLE	TN	3	8	11	11,610
RIDGETOP	TN	2	5	7	810
SHELBYVILLE	TN	0	9	9	11,900
SMYRNA	TN	4	8	12	5,698
SPRINGFIELD	TN	3	19	22	9,720
TULLAHOMA	TN	2	6	8	15,577
WOODBURY	TN	4	11	15	2,087
ANTI'CH	TN	1	14	15	900
ASHLAND CITY	TN	4	12	16	2,027
BRUSH CREEK	TN	3	16	19	230
BUFFALO VALLEY	TN	2	10	12	100
CHESTNUT MOUND	TN	0	7	7	125
DONELSON	TN	1	11	12	25,500
ELMWOOD	TN	3	12	15	100
GRANVILLE	TN	0	6	6	100
HICKMAN	TN	3	19	22	200
JOELTON	TN	1	19	20	900
LANCASTER	TN	4	6	10	150
MOSS	TN	2	9	11	200
SILVER POINT	TN	4	17	21	150
WHITLEYVILLE	TN	1	5	6	50
BOWLING GREEN	KY	1	5	6	39,400
FRANKLIN	KY	2	5	7	7,176
GAMALIEL	KY	0	5	5	431
TOMPKINSVILLE	KY	3	17	20	2,207
ADOLPHUS	KY	1	7	8	250
SUBTOTAL		69	369	438	
OTHER		102	180	282	
TOTAL RESPONSES		1658	3325	4983	
HNP WORKFORCE TOTAL 09-30-80				5137	

Table A-2

FOLLOW UP SURVEY
SOURCE AND LOCATION OF CONSTRUCTION EMPLOYEES RUN DATE 02/23/81
HARTSVILLE NUCLEAR PLANT RUN TIME 103558
ACTIVE EMPLOYEES 09-30-80 REPORT 4

FROM --- TO	-----IMPACT COUNTIES-----						OTHER REC. COUNTIES	OTHER TENN. COUNTIES	OTHER KENTUCKY COUNTIES	OTHER (4)	TOTAL
	TROUSDALE	SMITH	MACON	SUMNER	WILSON	DAVIDSON					
TROUSDALE (1)	177	9	8	25	4	4	3				230
SMITH (1)	10	322	8	3	10	2	9	2	1		367
MACON (1)	3	3	245	8	6	1	2				268
SUMNER (1)	18	7	9	728	8	13	11	2	2		799
WILSON (1)	8	8	1	16	336	8	11	6			394
DAVIDSON (1)	12	19	4	86	36	670	26	19			872
OTHER RECRUITING COUN (2)	14	23	16	19	14	9	701	23	4		823
OTHER TN. COUNTIES (3)	95	51	34	145	73	26	30	235	2	9	709
OTHER KY. COUNTIES (3)	4		7	8	4		2		13		38
ALABAMA	22	12	5	57	24	7	6	1		16	150
ARKANSAS	1	1	2	4	1						9
GEORGIA	6	1	2	3	4	1	1			2	17
MISSISSIPPI	2		1	4	1		1				9
NORTH CAROLINA			1	3	3						7
SOUTH CAROLINA	1	1		1		1	2				6
OTHER STATES	46	25	36	85	34	14	12	13		17	282
*** TOTAL	619	482	379	1195	558	756	826	302	22	44	4983

NOTE: DATA ON DIAGONAL INDICATE NONMOVERS, WITH THE EXCEPTION OF MOVES WITHIN A COUNTY.
ALL OTHER DATA INDICATE MOVERS.

(1) RECRUITING COUNTY

(2) TENNESSEE COUNTIES: CANNON, CLAY, DEKALB, JACKSON, PUTNAM,
ROBERTSON, RUTHERFORD

KENTUCKY COUNTIES: ALLEN, MONROE, SIMPSON

(3) ALL COUNTIES IN KENTUCKY AND TENNESSEE OTHER THAN RECRUITING COUNTIES

(4) "OTHER" INCLUDES NON-RESPONSES OR ERRONEOUS RESPONSES FOR CURRENT ADDRESS.

Table A-3

Hartsville Nuclear Plants
Distribution of Movers and Associated
Population by County and Community
September 30, 1980

<u>County</u>	<u>Percent of Movers</u>	<u>Number¹ of Movers</u>	<u>Population Influx¹</u>	
			<u>School age</u>	<u>Total</u>
Trousdale	15	250	145	616
Smith	11	180	121	501
Macon	9	148	130	463
Sumner	30	513	390	1,533
Wilson	14	230	193	692
Other Counties	<u>23</u>	<u>388</u>	<u>252</u>	<u>1,052</u>
Total	100 ²	1,709	1,231	4,857

<u>Community³</u>				
Carthage	3	46	13	96
Gallatin	11	192	121	536
Hartsville	10	164	85	368
Hendersonville	4	71	40	177
Lafayette	4	59	57	191
Lebanon	<u>4</u>	<u>64</u>	<u>37</u>	<u>163</u>
Total	36	596	353	1,531

1. Numbers extrapolated.

2. Percentages may not add to 100 because of rounding.

3. Within municipal limits.

Table A-4

Hartsville Nuclear Plants
Comparison of Survey Results with
Projections for Selected Parameters
Employment Level - 5,137

	<u>Projected</u>	<u>Surveyed</u> ¹
Number Movers	2,774	1,709
Percent Movers	54	33
School age Children	1,803	1,231
School age Children/Family	1.0	0.9
Total Population	6,380	4,857

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Movers with Families	65	1,803	77	1,309
Movers without Families	35	971	23	400

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Housing Choice:				
Houses	31	860	58	995
Mobile Homes	47	1,304	21	358
Apartments	18	499	14	231
Motel and Sleeping Rooms	4	111	3	47
Other	<u>0</u>	<u>0</u>	<u>5</u>	<u>78</u>
Total	100	2,774	100 ²	1,709

	<u>Percent</u>	<u>Number</u>	<u>Percent</u>	<u>Number</u>
Distribution by County:				
Trousdale	30	832	15	250
Smith	20	555	11	180
Macon	10	277	9	148
Sumner	20	555	30	513
Wilson	20	555	14	230
Other Counties	<u>0</u>	<u>0</u>	<u>23</u>	<u>388</u>
Total	100	2,774	100 ²	1,709

1. Numbers extrapolated.

2. Percentages may not add to 100 because of rounding.

Table A-5

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 017

MOVER SUMMARY
ACTIVE EMPLOYEES 09-30-80

RUN DATE 02/23/81
REPORT 1F
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	239	142	356	183	66	14	253
HOUSE RENTED	45	13	42	15	6	12	57
APARTMENT RENTED	31	6	19	8	1	41	72
MOBILE HOME RENTED	6	6	7	8	0	5	11
MOBILE HOME OWNED	22	7	23	6	2	11	33
SLEEPING ROOM	2	2	5	4	0	3	5
MOTEL	0	0	0	0	0	2	2
OTHER	5	1	3	1	1	3	8
TOTAL	350	177	455	225	76	91	441
HOURLY EMPLOYEES							
HOUSE OWNED	363	227	590	301	138	16	379
HOUSE RENTED	220	107	330	147	60	56	276
APARTMENT RENTED	87	28	81	24	12	65	152
MOBILE HOME RENTED	64	30	91	47	10	52	116
MOBILE HOME OWNED	148	75	192	96	37	39	187
SLEEPING ROOM	4	0	3	0	0	10	14
MOTEL	5	3	7	4	0	20	25
OTHER	29	12	34	12	5	39	68
TOTAL	920	482	1328	631	262	297	1217
ALL EMPLOYEES							
HOUSE OWNED	602	369	946	484	204	30	632
HOUSE RENTED	265	120	372	162	66	68	333
APARTMENT RENTED	118	34	100	32	13	106	224
MOBILE HOME RENTED	70	36	98	55	10	57	127
MOBILE HOME OWNED	170	82	215	102	39	50	220
SLEEPING ROOM	6	2	8	4	0	13	19
MOTEL	5	3	7	4	0	22	27
OTHER	34	13	37	13	6	42	76
TOTAL	1270	659	1783	856	338	388	1658

Table A-6

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 006

MACON
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 18
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	9	7	13	9	1	0	9
HOUSE RENTED	5	2	9	2	2	3	8
APARTMENT RENTED	1	0	0	0	0	0	1
MOBILE HOME RENTED	2	2	2	2	0	1	3
MOBILE HOME OWNED	1	0	0	0	0	1	2
SLEEPING ROOM MOTEL OTHER							
TOTAL	18	11	24	13	3	5	23
HOURLY EMPLOYEES							
HOUSE OWNED	50	29	76	39	18	2	52
HOUSE RENTED	18	11	34	18	4	2	20
APARTMENT RENTED	3	2	5	3	0	0	3
MOBILE HOME RENTED	9	4	17	8	0	3	12
MOBILE HOME OWNED	21	10	24	11	6	3	24
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	2	2
OTHER	3	2	3	2	1	3	6
TOTAL	104	58	159	81	29	17	121
ALL EMPLOYEES							
HOUSE OWNED	59	36	89	48	19	2	61
HOUSE RENTED	23	13	43	20	6	5	28
APARTMENT RENTED	4	2	5	3	0	0	4
MOBILE HOME RENTED	11	6	19	10	0	4	15
MOBILE HOME OWNED	22	10	24	11	6	4	26
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	2	2
OTHER	3	2	3	2	1	3	6
TOTAL	122	69	183	94	32	22	144

Table A-7

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 007

SMITH
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-30
RUN DATE 02/23/81
REPORT 18
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	9	6	17	10	4	1	10
HOUSE RENTED	8	2	4	1	1	2	10
APARTMENT RENTED	0	0	0	0	0	2	2
MOBILE HOME RENTED	2	2	4	4	0	1	3
MOBILE HOME OWNED	4	1	1	0	1	1	5
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER	1	1	2	1	1	0	1
TOTAL	24	12	28	16	7	8	32
HOURLY EMPLOYEES							
HOUSE OWNED	31	22	57	26	20	1	32
HOUSE RENTED	25	10	36	13	4	3	28
APARTMENT RENTED	3	0	3	0	0	7	10
MOBILE HOME RENTED	7	3	10	4	0	8	15
MOBILE HOME OWNED	35	14	42	17	6	13	48
SLEEPING ROOM	0	0	0	0	0	4	4
MOTEL	1	1	1	1	0	1	2
OTHER	3	2	5	3	0	1	4
TOTAL	105	52	154	64	30	38	143
ALL EMPLOYEES							
HOUSE OWNED	40	28	74	36	24	2	42
HOUSE RENTED	33	12	40	14	5	5	38
APARTMENT RENTED	3	0	3	0	0	9	12
MOBILE HOME RENTED	9	5	14	8	0	9	18
MOBILE HOME OWNED	39	15	43	17	7	14	53
SLEEPING ROOM	0	0	0	0	0	5	5
MOTEL	1	1	1	1	0	1	2
OTHER	4	3	7	4	1	1	5
TOTAL	129	64	182	80	37	46	175

Table A-8

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 008

SUMNER
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 18
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	142	84	222	108	44	8	150
HOUSE RENTED	12	3	7	2	1	2	14
APARTMENT RENTED	18	2	12	3	1	23	41
MOBILE HOME RENTED	1	1	1	1	0	0	1
MOBILE HOME OWNED	5	2	9	2	0	2	7
SLEEPING ROOM	1	1	3	2	0	1	2
MOTEL							
OTHER	2	0	1	0	0	1	3
TOTAL	181	93	255	118	46	37	218
HOURLY EMPLOYEES							
HOUSE OWNED	102	63	162	90	34	4	106
HOUSE RENTED	54	25	90	36	14	16	70
APARTMENT RENTED	27	9	26	10	1	14	41
MOBILE HOME RENTED	7	2	7	2	0	13	20
MOBILE HOME OWNED	28	15	38	17	8	6	34
SLEEPING ROOM							
MOTEL	1	0	1	0	0	0	1
OTHER	5	2	5	1	1	3	8
TOTAL	224	116	329	156	58	56	280
ALL EMPLOYEES							
HOUSE OWNED	244	147	384	198	78	12	256
HOUSE RENTED	66	28	97	38	15	18	84
APARTMENT RENTED	45	11	38	13	2	37	82
MOBILE HOME RENTED	8	3	8	3	0	13	21
MOBILE HOME OWNED	33	17	47	19	8	8	41
SLEEPING ROOM	1	1	3	2	0	1	2
MOTEL	1	0	1	0	0	0	1
OTHER	7	2	6	1	1	4	11
TOTAL	405	209	584	274	104	93	498

Table A-9

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 009

TROUSDALE
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 18
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	6	5	11	7	1	0	6
HOUSE RENTED	4	2	5	3	2	1	5
APARTMENT RENTED	3	1	1	1	0	6	9
MOBILE HOME RENTED	1	1	0	1	0	2	3
MOBILE HOME OWNED	9	4	9	4	1	5	14
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	23	13	26	16	4	15	38
HOURLY EMPLOYEES							
HOUSE OWNED	20	8	27	15	4	2	22
HOUSE RENTED	33	20	52	22	13	7	40
APARTMENT RENTED	12	4	10	1	3	12	24
MOBILE HOME RENTED	27	11	31	17	5	20	47
MOBILE HOME OWNED	34	20	42	24	12	11	45
SLEEPING ROOM	2	0	3	0	0	3	5
MOTEL	2	1	4	2	0	7	9
OTHER	2	2	5	2	0	10	12
TOTAL	132	66	174	83	38	72	204
ALL EMPLOYEES							
HOUSE OWNED	26	13	38	22	5	2	28
HOUSE RENTED	37	22	57	25	15	8	45
APARTMENT RENTED	15	5	11	2	3	18	33
MOBILE HOME RENTED	28	12	31	18	6	22	50
MOBILE HOME OWNED	43	24	51	28	13	16	59
SLEEPING ROOM	2	0	3	0	0	4	6
MOTEL	2	1	4	2	0	7	9
OTHER	2	2	5	2	0	10	12
TOTAL	155	79	200	99	42	87	242

Table A-10

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 010

WILSON
EMPLOYEES LIVING WITHIN THE COUNTY TOTAL
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 18
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	60	33	78	41	10	3	63
HOUSE RENTED	7	1	4	3	0	3	10
APARTMENT RENTED	4	2	2	2	0	3	7
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	2	0	4	0	0	2	4
SLEEPING ROOM	1	1	2	2	0	0	1
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	74	37	90	48	10	14	88
HOURLY EMPLOYEES							
HOUSE OWNED	50	35	79	44	22	0	50
HOUSE RENTED	20	13	35	18	12	8	28
APARTMENT RENTED	20	8	23	6	5	7	27
MOBILE HOME RENTED	3	3	5	5	0	3	6
MOBILE HOME OWNED	13	8	23	14	1	4	17
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	6	1	7	1	1	0	6
TOTAL	112	68	172	88	4	23	135
ALL EMPLOYEES							
HOUSE OWNED	110	68	157	85	32	3	113
HOUSE RENTED	27	14	39	21	12	11	38
APARTMENT RENTED	24	10	25	8	5	10	34
MOBILE HOME RENTED	3	3	5	5	0	4	7
MOBILE HOME OWNED	15	8	27	14	1	6	21
SLEEPING ROOM	1	1	2	2	0	0	1
MOTEL	0	0	0	0	0	2	2
OTHER	6	1	7	1	1	1	7
TOTAL	186	105	262	136	51	37	223

Table A-11

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 001

CARTHAGE
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 1A
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	0	0	0	0	0	1	1
HOUSE RENTED	2	1	2	0	1	1	3
APARTMENT RENTED	0	0	0	0	0	2	2
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	2	1	2	0	1	5	7
HOURLY EMPLOYEES							
HOUSE OWNED	4	2	4	2	2	0	4
HOUSE RENTED	3	1	7	4	0	1	4
APARTMENT RENTED	2	0	1	0	0	4	6
MOBILE HOME RENTED	1	0	2	0	0	3	4
MOBILE HOME OWNED	9	2	6	2	0	5	14
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	1	1	1	1	0	1	2
OTHER	1	1	2	1	0	1	2
TOTAL	21	7	23	10	2	17	38
ALL EMPLOYEES							
HOUSE OWNED	4	2	4	2	2	1	5
HOUSE RENTED	5	2	9	4	1	2	7
APARTMENT RENTED	2	0	1	0	0	6	8
MOBILE HOME RENTED	1	0	2	0	0	3	4
MOBILE HOME OWNED	9	2	6	2	0	5	14
SLEEPING ROOM	0	0	0	0	0	3	3
MOTEL	1	1	1	1	0	1	2
OTHER	1	1	2	1	0	1	2
TOTAL	23	8	25	10	3	22	45

Table A-12

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 002

GALLATIN
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 1A
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	42	22	57	27	6	2	44
HOUSE RENTED	6	2	4	2	0	1	7
APARTMENT RENTED	7	1	6	2	0	12	19
MOBILE HOME RENTED							
MOBILE HOME OWNED	3	0	4	0	0	1	4
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER	0	0	0	0	0	1	1
TOTAL	58	25	71	31	6	18	76
HOURLY EMPLOYEES							
HOUSE OWNED	34	21	49	29	14	2	36
HOUSE RENTED	23	10	33	12	7	2	25
APARTMENT RENTED	15	6	16	5	1	6	21
MOBILE HOME RENTED	2	1	4	1	0	9	11
MOBILE HOME OWNED	10	6	13	6	4	1	11
SLEEPING ROOM							
MOTEL	1	0	1	0	0	0	1
OTHER	2	1	2	1	0	3	5
TOTAL	87	45	118	54	26	23	110
ALL EMPLOYEES							
HOUSE OWNED	76	43	106	56	20	4	80
HOUSE RENTED	29	12	37	14	7	3	32
APARTMENT RENTED	22	7	22	7	1	18	40
MOBILE HOME RENTED	2	1	4	1	0	9	11
MOBILE HOME OWNED	13	6	17	6	4	2	15
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL	1	0	1	0	0	0	1
OTHER	2	1	2	1	0	4	6
TOTAL	145	70	189	85	32	41	186

Table A-13

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 003

HARTSVILLE
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 1A
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	3	2	5	3	1	0	3
HOUSE RENTED							
APARTMENT RENTED	3	1	1	1	0	6	9
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	3	2	3	3	0	4	7
SLEEPING ROOM	0	0	0	0	0	1	1
MOTEL							
OTHER							
TOTAL	9	5	9	7	1	12	21
HOURLY EMPLOYEES							
HOUSE OWNED	8	3	9	5	2	1	9
HOUSE RENTED	21	15	33	18	10	6	25
APARTMENT RENTED	12	4	10	1	3	12	24
MOBILE HOME RENTED	18	7	20	11	3	16	34
MOBILE HOME OWNED	18	11	20	13	6	10	28
SLEEPING ROOM	2	0	3	0	0	3	5
MOTEL	2	1	4	2	0	4	6
OTHER	0	0	0	0	0	7	7
TOTAL	81	41	99	50	24	57	138
ALL EMPLOYEES							
HOUSE OWNED	11	5	14	8	3	1	12
HOUSE RENTED	21	15	33	18	10	4	25
APARTMENT RENTED	15	5	11	2	3	18	33
MOBILE HOME RENTED	18	7	20	11	3	17	35
MOBILE HOME OWNED	21	13	23	16	6	14	35
SLEEPING ROOM	2	0	3	0	0	4	6
MOTEL	2	1	4	2	0	4	6
OTHER	0	0	0	0	0	7	7
TOTAL	90	46	108	57	25	69	159

Table A-14

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 016

HENDERSONVILLE
EMPLOYEES LIVING WITHIN CITY LIMITS
ACTIVE EMPLOYEES 09-30-80

RUN DATE 02/23/81
REPORT 10
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	4	2	4	2	1	3	7
HOUSE RENTED							
APARTMENT RENTED	8	1	4	1	1	9	17
MOBILE HOME RENTED							
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	12	3	8	3	2	12	24
HOURLY EMPLOYEES							
HOUSE OWNED	18	12	31	20	6	0	18
HOUSE RENTED	5	2	8	1	2	4	10
APARTMENT RENTED	9	3	9	5	0	6	15
MOBILE HOME RENTED							
MOBILE HOME OWNED	1	0	0	0	0	0	1
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	35	17	48	26	8	10	45
ALL EMPLOYEES							
HOUSE OWNED	22	14	35	22	7	3	25
HOUSE RENTED	6	2	8	1	2	4	10
APARTMENT RENTED	17	4	13	6	1	15	32
MOBILE HOME RENTED							
MOBILE HOME OWNED	1	0	0	0	0	0	1
SLEEPING ROOM							
MOTEL							
OTHER	1	0	0	0	0	0	1
TOTAL	47	20	56	29	10	22	69

Table A-15

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 004

LAFAYETTE
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-80
RUN DATE 02/23/81
REPORT 1A
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	3	2	4	3	1	0	3
HOUSE RENTED	0	0	0	0	0	3	3
APARTMENT RENTED	1	0	0	0	0	0	1
MOBILE HOME RENTED	1	1	1	1	0	1	2
MOBILE HOME OWNED							
SLEEPING ROOM							
MOTEL							
OTHER							
TOTAL	5	3	5	4	1	4	9
HOURLY EMPLOYEES							
HOUSE OWNED	25	16	41	21	11	0	25
HOUSE RENTED	9	5	17	8	1	1	10
APARTMENT RENTED	3	2	5	3	0	0	3
MOBILE HOME RENTED	5	3	13	6	0	0	5
MOBILE HOME OWNED	0	0	0	0	0	1	1
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	42	26	76	38	12	6	48
ALL EMPLOYEES							
HOUSE OWNED	28	18	45	24	12	0	28
HOUSE RENTED	9	5	17	8	1	-	13
APARTMENT RENTED	4	2	5	3	0	0	4
MOBILE HOME RENTED	6	4	14	7	0	1	7
MOBILE HOME OWNED	0	0	0	0	0	1	1
SLEEPING ROOM	0	0	0	0	0	2	2
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	47	29	81	42	13	10	57

Table A-16

FOLLOW UP SURVEY
WORKERS WHO MOVED INTO HARTSVILLE NUCLEAR PLANT AREA PAGE 005

LEBANON
EMPLOYEES LIVING WITHIN THE CITY LIMITS
ACTIVE EMPLOYEES 09-30-80

RUN DATE 02/23/81
REPORT 1A
RUN TIME 103501

	MOVERS WITH FAMILY	WITH CHILDREN IN SCHOOL	TOTAL NUMBER OF CHILDREN	CHILDREN IN GRADE SCHOOL	CHILDREN IN HIGH SCHOOL	MOVERS WITHOUT FAMILY	TOTAL MOVERS
ANNUAL EMPLOYEES							
HOUSE OWNED	8	4	9	4	1	0	8
HOUSE RENTED	1	1	3	3	0	0	1
APARTMENT RENTED	3	1	1	1	0	3	6
MOBILE HOME RENTED							
MOBILE HOME OWNED	0	0	0	0	0	1	1
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	0	0	0	0	0	1	1
TOTAL	12	6	13	8	1	6	18
HOURLY EMPLOYEES							
HOUSE OWNED	6	5	8	6	2	0	6
HOUSE RENTED	5	4	14	7	4	5	10
APARTMENT RENTED	13	4	12	3	2	6	19
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	4	2	8	2	1	2	6
SLEEPING ROOM							
MOTEL	0	0	0	0	0	1	1
OTHER	1	0	0	0	0	0	1
TOTAL	29	15	42	18	9	15	44
ALL EMPLOYEES							
HOUSE OWNED	14	9	17	10	3	0	14
HOUSE RENTED	6	5	17	10	4	5	11
APARTMENT RENTED	16	5	13	4	2	9	25
MOBILE HOME RENTED	0	0	0	0	0	1	1
MOBILE HOME OWNED	4	2	8	2	1	3	7
SLEEPING ROOM							
MOTEL	0	0	0	0	0	2	2
OTHER	1	0	0	0	0	1	2
TOTAL	41	21	55	26	10	21	62

Appendix B

SECONDARY SOCIOECONOMIC IMPACT MONITORING
OF HARTSVILLE NUCLEAR PLANTS ENVIRONMENTAL IMPACT AREA

Secondary impact is defined as a temporary increase in the trade and service related resident population of the five-county area having an impact on community facilities and services which can be attributed to the Hartsville construction project.

TVA's monitoring program will consist of a three-step procedure during each reporting period for estimating and reconciling population changes for each of the impact area counties. Residential customers of power distributors and school enrollment will be used to provide independent estimates of county residential population change during a given reporting period. Population for the beginning of the first reporting period will be estimated by applying the procedure outlined in Step I below to the most current estimate of county population provided by U.S. Bureau of the Census Current Population Reports. Subsequent estimates of population for the start of a reporting period will be the TVA estimate at the end of the previous reporting period and will be adjusted each time more current census estimates are available.

An estimate of secondary impact will be made using the following three-step process.

Step I

Ratios of school enrollment and residential customers to population will be calculated at the beginning of the reporting period for each of the impact area counties. These ratios will be applied to the number of residential customers and school enrollment at the end of the period. This yields two estimates of population change during the reporting period. These two estimates are averaged to produce a single estimate of population change for each of the impact area counties.

Step II

Project employment population, taken from TVA employee surveys, will be subtracted from total adjusted population. If a residual population is derived, the analysis will continue to Step III.

Step III

This step comprises an analysis of nonproject related primary employment and its secondary effect to determine what part of the remaining unexplained population change should not be attributed to the project.

An estimate of change in total employment in each of the impact area counties during the reporting period is made using monthly data from the "CPS Labor Force Summary" produced by the Tennessee Department of Employment Security. In order to determine that part of the change in total employment which can be attributed to forces other than the construction project, it is necessary to estimate the change in nonproject related employment. Change in nonproject related primary employment is estimated using a linear interpolation of primary employment as a percent of total employment in 1970 and projected to 1980, as given in the 1974 report by the Tennessee State Planning Office, Tennessee Migration, Population Families, Income, and Manpower Demand Projections to 1990 for Development Districts and Counties. A ratio of .65 will be applied to the change in nonproject related primary employment to determine that part of the change in secondary employment which can be considered nonproject related. The total employment change is converted to population using an average family size of three and subtracted from any unexplained population remaining. [If there is no other explanation for the remaining population, then the possibility of it being the result of secondary employment does exist. However, there may be a delay of undetermined duration between a change in employment and the resultant change in population. Therefore, the unexplained population in any particular county should persist through more than one reporting period before it is termed as secondary impact.]

As results of the 1980 Census of Population or any other special census or census estimates are published, the population base of the impact area counties will be recalibrated. Residential customers, school enrollment, and total population will be recorrelated. Essentially, a new population base will be estimated from which to measure change throughout the remainder of the monitoring period.

[Revised 3/16/78]

Appendix C

TRAFFIC LEVEL DEFINED

Level of Service D

Level of service D approaches unstable flow, with tolerable operating speeds being maintained though considerably affected by changes in operating conditions. Fluctuations in volume and temporary restrictions to flow may cause substantial drops in operating speeds. Drivers have little freedom to maneuver, and comfort and convenience are low, but conditions can be tolerated for short periods of time.

Source: Highway Capacity Manual, Highway Research Board
Special Report 87, 1965.

Appendix D-1

EMPLOYEE QUESTIONNAIRE - TRADES AND LABOR

2

NAME _____ SOCIAL SECURITY NO. _____
LAST FIRST

1. WHERE DID YOU LIVE BEFORE BEGINNING WORK ON THIS PROJECT?

CITY
COUNTY
STATE

2. WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

STREET ADDRESS
CITY
COUNTY
STATE

3. DO YOU LIVE INSIDE THE CITY LIMITS? ____ YES ____ NO

4. HOW DID YOU OBTAIN MOST OF THE TRAINING THAT PREPARED YOU FOR YOUR PRESENT TRADE OR TYPE OF WORK? (CHECK ONLY ONE)

____ 1. HIGH SCHOOL
____ 2. COLLEGE
____ 3. VOCATIONAL SCHOOL OR FORMAL APPRENTICESHIP PROGRAM
____ 4. ARMED SERVICES
____ 5. ON THE JOB BUT NOT FORMAL APPRENTICESHIP PROGRAM
____ 6. OTHER (PLEASE SPECIFY) _____

5. IMMEDIATELY BEFORE ACCEPTING EMPLOYMENT ON THIS PROJECT WHAT WAS YOUR LAST JOB (SUCH AS STEAMFITTING, LABORER, FARMING, MAINTENANCE, ETC.)?

6. WHAT TYPE OF BUSINESS WERE YOU IN (SUCH AS MANUFACTURING, CONSTRUCTION, REPAIR OR MAINTENANCE SHOP, ETC.)?

7. WHERE WAS THIS BUSINESS LOCATED?

CITY
STATE

8. CHECK WHICH TYPE OF RESIDENCE IN THE PROJECT AREA WHERE YOU NOW LIVE.

____ 1. BOARDING OR SLEEPING ROOM
____ 2. MOTEL
____ 3. APARTMENT
____ 4. MOBILE HOME
____ 5. HOUSE
____ 6. OTHER (PLEASE SPECIFY) _____

9. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

____ YES ____ NO

10. IN THE PROJECT AREA, CHECK WITH WHOM YOU LIVE.

____ 1. BY MYSELF
____ 2. WITH MY FAMILY
____ 3. WITH ROOMMATES, HOW MANY? _____
____ 4. OTHER (PLEASE SPECIFY) _____

11. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

12. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS?

____ YES ____ NO

THANK YOU FOR COOPERATING IN THIS SURVEY.
HARTSVILLE NUCLEAR PLANT NEW EMPLOYEE SURVEY

Appendix D-2

EMPLOYEE QUESTIONNAIRE - SALARY POLICY

3

NAME _____ SOCIAL SECURITY NO. _____
LAST FIRST

1. WHERE DID YOU LIVE BEFORE BEGINNING WORK ON THIS PROJECT?

CITY
COUNTY
STATE

2. WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

STREET ADDRESS
CITY
COUNTY
STATE

3. DO YOU LIVE INSIDE THE CITY LIMITS? ____ YES ____ NO

4. HOW DID YOU OBTAIN MOST OF THE TRAINING THAT PREPARED YOU FOR YOUR PRESENT TRADE OR TYPE OF WORK? (CHECK ONLY ONE OF THE FOLLOWING)

____ 1. HIGH SCHOOL
____ 2. COLLEGE
____ 3. VOCATIONAL SCHOOL

____ 4. ARMED SERVICES
____ 5. ON THE JOB BUT NOT FORMAL
TRAINING PROGRAM
____ 6. OTHER (PLEASE SPECIFY) _____

5. IMMEDIATELY BEFORE ACCEPTING EMPLOYMENT ON THIS PROJECT WHAT WAS YOUR LAST JOB (SUCH AS CLERICAL, SECRETARIAL, ENGINEERING AIDE, LABORER, ETC.)?

6. WHAT TYPE OF BUSINESS WERE YOU IN (SUCH AS MANUFACTURING, CONSTRUCTION, RETAIL, SALES, SERVICES, ETC.)?

7. WHERE WAS THIS BUSINESS LOCATED?

CITY
STATE

8. CHECK WHICH TYPE OF RESIDENCE IN THE PROJECT AREA WHERE YOU NOW LIVE.

____ 1. BOARDING OR SLEEPING ROOM
____ 2. MOTEL
____ 3. APARTMENT

____ 4. MOBILE HOME
____ 5. HOUSE
____ 6. OTHER (PLEASE SPECIFY) _____

9. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

____ YES ____ NO

10. IN THE PROJECT AREA, CHECK WITH WHOM YOU LIVE.

____ 1. BY MYSELF
____ 2. WITH MY FAMILY

____ 3. WITH ROOMMATES.
HOW MANY? _____
____ 4. OTHER (PLEASE SPECIFY) _____

11. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

12. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS?

____ YES ____ NO

THANK YOU FOR COOPERATING IN THIS SURVEY.
HARTSVILLE NUCLEAR PLANT NEW EMPLOYEE SURVEY

Appendix D-3

FOLLOW-UP QUESTIONNAIRE

1. Do you still live at _____ (Employee's Address) _____?

____ YES.
____ NO.

IF SO, SKIP TO QUESTION 2.

IF NOT, PLEASE ANSWER THE FOLLOWING QUESTIONS:

WHERE ARE YOU NOW LIVING DURING THE WORK WEEK?

____ STREET ADDRESS
____ CITY
____ COUNTY
____ STATE

DO YOU LIVE INSIDE THE CITY LIMITS? _____ YES _____ NO

CHECK WHICH TYPE RESIDENCE IN THE PROJECT AREA YOU LIVE IN

- ____ 1. BOARDING OR SLEEPING ROOM
____ 2. MOTEL
____ 3. APARTMENT
____ 4. MOBILE HOME
____ 5. HOUSE
____ 6. OTHER (PLEASE SPECIFY) _____

2. IF YOU LIVE IN A HOUSE OR MOBILE HOME IN THE PROJECT AREA, DO YOU OWN IT?

____ YES _____ NO

3. IN THE PROJECT AREA, CHECK WITH WHOM YOU NOW LIVE:

- ____ 1. BY MYSELF
____ 2. WITH MY FAMILY
____ 3. WITH ROOMMATES. HOW MANY? _____
____ 4. OTHER (PLEASE SPECIFY) _____

4. HOW MANY CHILDREN LIVE WITH YOU IN THE PROJECT AREA? _____

OF THESE, HOW MANY GO TO GRADE SCHOOL? _____

OF THESE, HOW MANY GO TO HIGH SCHOOL? _____

5. HAVE YOU LIVED AT YOUR PRESENT ADDRESS MORE THAN SIX MONTHS? _____ YES _____ NO

6. HAVE YOU OR ANY OF YOUR FAMILY LIVING WITH YOU IN THE PROJECT AREA HAD ANY DIFFICULTY OBTAINING HEALTH TREATMENT?

____ YES. IF SO, CHECK THOSE WHICH YOU HAD DIFFICULTY OBTAINING:

____ DOCTOR (NOT EMERGENCY)

____ DENTIST

____ EMERGENCY MEDICAL TREATMENT

____ HOSPITALIZATION

____ OTHER (PLEASE SPECIFY) _____

____ NO

7. HAVE YOU OR ANY OF YOUR FAMILY LIVING WITH YOU IN THE PROJECT AREA HAD TO TRAVEL OUTSIDE YOUR PRESENT COUNTY TO OBTAIN HEALTH TREATMENT?

____ YES. IF SO, WHAT WAS THE SERVICE AND WHERE DID YOU HAVE TO GO?

____ NO _____

THANK YOU FOR COOPERATING IN THIS SURVEY.

HARTSVILLE NUCLEAR PLANT FOLLOWUP

Appendix E

Socioeconomic Monitoring Cycle

Time Required
from Official
Survey Date*

Activity

2 weeks	Allow for personnel paperwork
3 weeks	Print address labels, survey forms and mail to project.
3 weeks	Conduct survey and return forms.
2 weeks	Code forms, update files, produce tables, and send tables to coordinator.
4 weeks	Contingency time for reproduction, mail, or project site problems.
2 weeks	Prepare first two sections of report and send to functional staff.**
3 weeks	Functional staffs draft sections and submit them.
4 weeks	Prepare and distribute draft report and receive comments.
2 weeks	Incorporate comments and send final report to reproduction.
2 weeks	Printing.
2 weeks	Contingency time for mail, typing, or other delays.
1 week	Distribute reports.

*The survey date for each project is the last day a person can be hired and still be surveyed.

**Functional staff are those dealing with specific areas such as education or health.

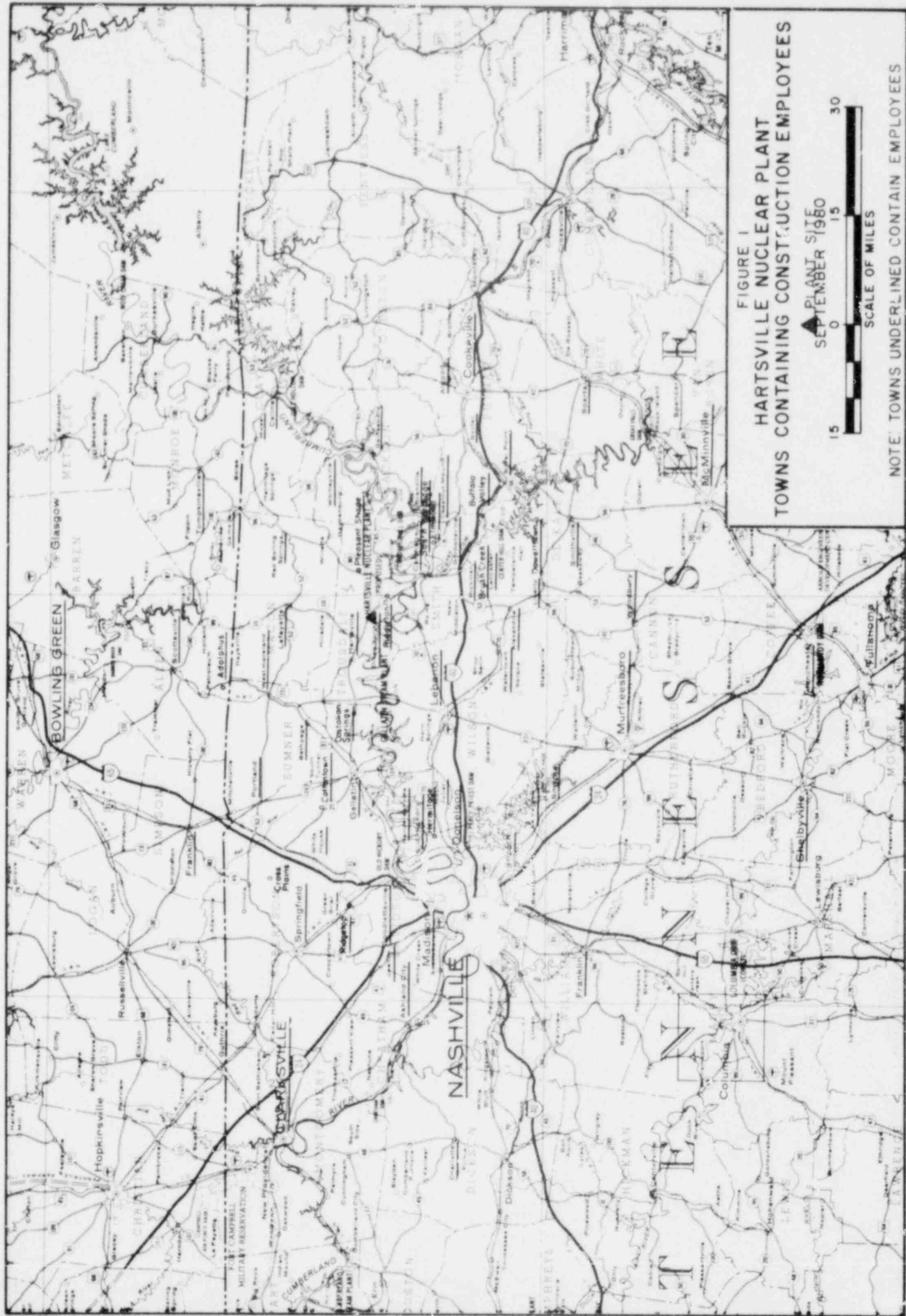
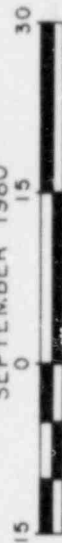


FIGURE 1
HARTSVILLE NUCLEAR PLANT
TOWNS CONTAINING CONSTRUCTION EMPLOYEES

▲ PLANT SITE
 SEPTEMBER 1980



NOTE: TOWNS UNDERLINED CONTAIN EMPLOYEES