

DOCKET NO. 50-24

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(formal)

YANKEE NUCLEAR POWER STATION

OPERATION REPORT NO. 59

For the month of

NOVEMBER 1965



Submitted by

YANKEE ATOMIC ELECTRIC COMPANY  
Boston Massachusetts

December 27. 1965

8011250 411

YANKEE ATOMIC ELECTRIC COMPANY -- OPERATING SUMMARY

NOVEMBER 1965

ELECTRICAL

|                                            |     | <u>MONTH</u> | <u>YEAR</u> | <u>TO DATE</u> |
|--------------------------------------------|-----|--------------|-------------|----------------|
| Gross Generation                           | KWH | 63,482,600   | 890,315,600 | 4,853,431,800  |
| Sta. Service (While Gen. Incl. Losses)     | KWH | 3,899,500    | 58,399,483  | 338,061,592    |
| Net Generation                             | KWH | 59,583,100   | 831,916,117 | 4,515,370,208  |
| Station Service                            | %   | 6.14         | 6.56        | 6.97           |
| Sta. Service (While Not Gen. Incl. Losses) | KWH | 780,500      | 2,443,127   | 22,241,578     |
| Ave. Gen. For Month (720 HRS)              | KW  | 88,170       | --          | --             |
| Ave. Gen. Running (424.48 HRS)             | KW  | 149,554      | --          | --             |

PLANT PERFORMANCE

|                               |         |        |        |       |
|-------------------------------|---------|--------|--------|-------|
| Net Plant Efficiency          | %       | 28.71  | 28.12  | --    |
| Net Plant Heat Rate           | Btu/KWH | 11,887 | 12,136 | --    |
| Lbs. Steam/Net KWH            |         | 13.68  | 13.99  | --    |
| Circulating Water Inlet Temp. |         |        |        |       |
| Maximum                       | OF      | 43     | --     | --    |
| Minimum                       | OF      | 39     | --     | --    |
| Plant Operating Factor        | %       | 48.03  | 61.51  | 67.61 |
| Reactor Plant Availability    | %       | 69.01  | 73.49  | 80.19 |

NUCLEAR

|                                    |                          | <u>MONTH</u> | <u>CORE V</u>       | <u>TO DATE</u> |
|------------------------------------|--------------------------|--------------|---------------------|----------------|
| Times Critical                     |                          | 14           | 14                  | 371            |
| Hours Critical                     | HRS                      | 479.72       | 479.72              | 36,440.68      |
| Times Scrammed                     |                          | 0            | 0                   | 49             |
| Equivalent Reactor Hours @ 600 MWt | HRS                      | 345.79       | 345.79              | 26,504.83      |
| Average Burnup of Core             | MWD/MTu *                |              |                     |                |
| Control Rod Position at Month End  |                          |              |                     |                |
| Equilibrium at 600 MWt             |                          |              |                     |                |
| Group A Rods out-inches            | 79 1/8                   |              |                     |                |
| Group B                            | 87°                      |              |                     |                |
| Group C                            | 87°                      |              |                     |                |
| Group D                            | 87°                      |              |                     |                |
|                                    | * <u>REGION</u>          | <u>MONTH</u> | <u>TOTAL BURNUP</u> |                |
|                                    | A (INNER)                | 395.2        | 15,937.0            |                |
|                                    | B (MIDDLE)               | 477.5        | 7,236.6             |                |
|                                    | C (OUTER)                | 351.7        | 351.7               |                |
|                                    | ZIRCALOY TEST ASSEMBLIES | 620.8        | 620.8               |                |

Boron 1012 ppm