

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 8178

FILE:

FROM: Niagara Mohawk Power Corporation Syracuse, N. Y. 13202 R. R. Schneider		DATE OF DOC 8-1-74	DATE REC'D. 8-7-74	LTR X	TWX	RPT	OTHER
TO:		ORIG 1 signed	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS UNCLASS XXXX	PROP INFO.	INPUT	NO CYS REC'D 1	DOCKET NO: 50-220			
DESCRIPTION: Ltr. trans the following:			ENCLOSURES: Monthly Report for July 1974 Plant & Component Operability & Availability This Report to be use for preparing Grey Book by Plans & Operations.....				
PLANT NAME: Nine Mile Point Unit # 1			No. of Copies Rec'd 1				

Do Not Remove
ACKNOWLEDGED

FOR ACTION/INFORMATION

8-7-74

AB

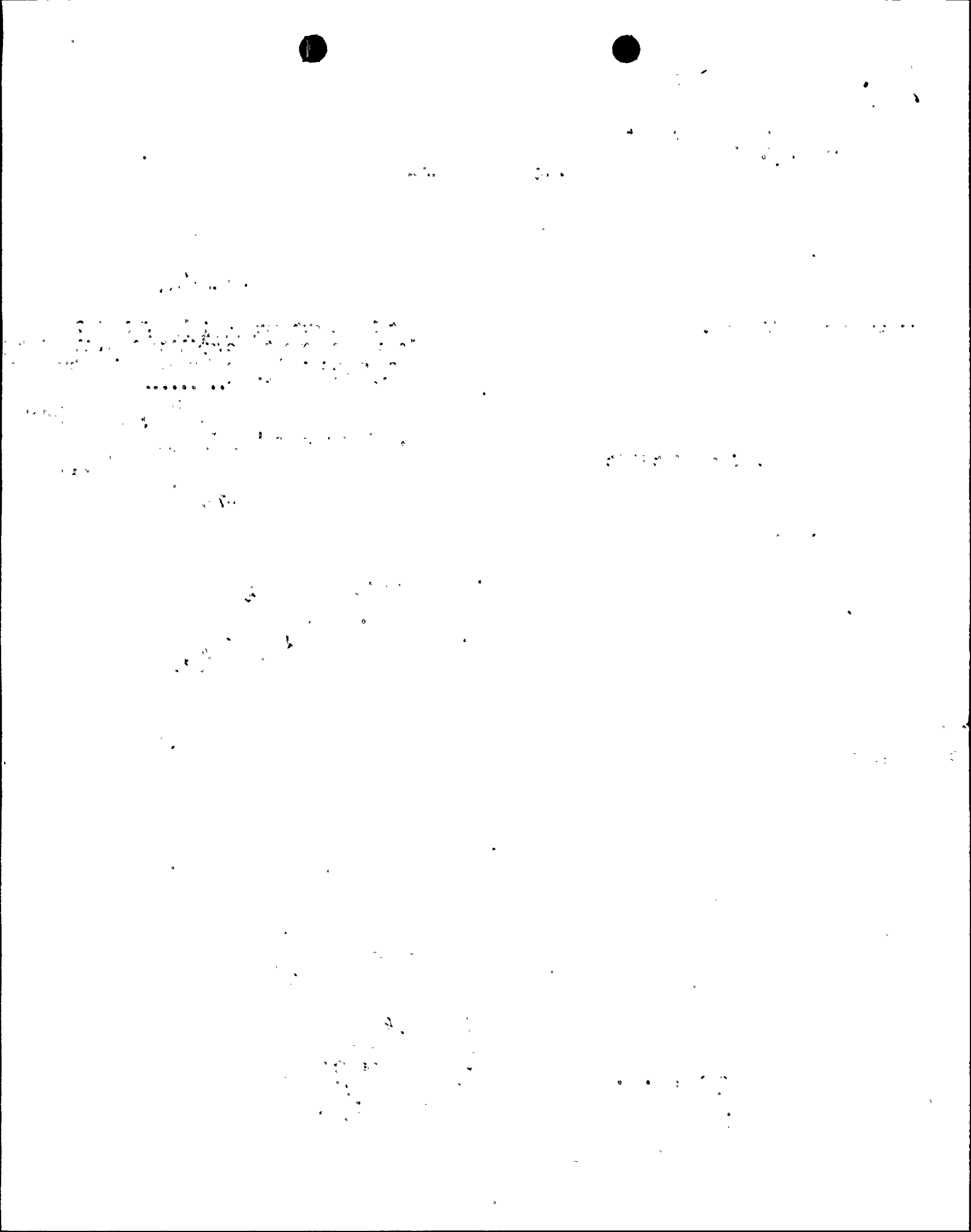
BUTLER (L)	SCHWENGER (L)	ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	LEAR
W/ CYS	W/ CYS	W/ CYS	W/ 1 CYS
PARR (L)	VASSALLO (E)	KNIGHTON (E)	W. MAGEE
W/ CYS	W/ CYS	W/ CYS	W/ 2 CYS
KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS

INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC ASST</u>	<u>A/T IND</u>
AEC PDR	HENDRIE	GRIMES	DIGGS (L)	BRAITMAN
OGC	SCHROEDER	GAMMILL	GEARIN (L)	SALTZMAN
MUNTZING/STAFF	MACCARY	KASTNER	GOULBOURNE (L)	B. HURT
CASE	KNIGHT	BALLARD	KREUTZER (E)	
GIAMBUSSO	PAWLICKI	SPANGLER	LEE (L)	<u>PLANS</u>
BOYD	SHAO		MAIGRET (L)	MCDONALD
MOORE (L)(LWR-2)	STELLO	<u>ENVIRO</u>	REED (E)	CHAPMAN
DEYOUNG (L)(LWR-1)	HOUSTON	MULLER	SERVICE (L)	DUBE w/input
SKOVHOLT (L)	NOVAK	DICKER	SHEPPARD (L)	E. COUPE
GOLLER (L)	ROSS	KNIGHTON	SLATER (E)	
P. COLLINS	IPPOLITO	YOUNGBLOOD	SMITH (L)	D. THOMPSON (2)
DENISE	TEDESCO	REGAN	TEETS (L)	KLECKER
<u>REG OPR</u>	LONG	PROJECT MGR	WILLIAMS (E)	EISENHUT
FILE & REGION (3)	LAINAS		WILSON (L)	
MORRIS	BENAROYA	<u>HARLESS</u>		
STEELE	VOLLMER			

EXTERNAL DISTRIBUTION

1 - LOCAL PDR Oswego, N. Y.	(1)(2)(10)-NATIONAL LABS	1-PDR-SAN/LA/NY
1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	1-G. ULRIKSON, ORNL
1 - ASLB	1-B&M SWINEBROAD, Rm E-201 GT	1-AGMED (RUTH GUSSMAN)
1 - P. R. DAVIS	1-CONSULTANTS	Rm B-127 GT
16 - AGRS HOLDING	NEWMARK/BLUME/ACBABIAN	1-RD..MUELLER, Rm F-309
		GT



Regulatory

Ena Cy.

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST
SYRACUSE, N. Y. 13202

August 1, 1974

Office of Plans & Schedules
Directorate of Licensing
United States Atomic Commission
Washington, D. C. 20545

50 - 220



Gentlemen:

Please find enclosed, copies of the following reports for the
Nine Mile Point Nuclear Station Unit 1:

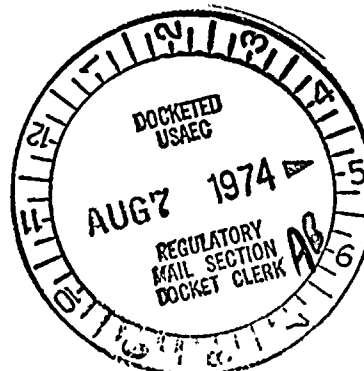
1. Daily Plant Power
2. Operating Status
3. Plant Shutdowns

Very truly yours,


R. R. Schneider

Vice-President--Electric Operations

TJP/jmw
cc: RO:I
Enclosures - 3



8178

Figure 1. The structure of the proposed model.

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophyll was expressed in mg g⁻¹ of dry weight.

[illegible]

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$$P(\mathbf{y}|\mathbf{x}) = \prod_{i=1}^n p(y_i|x_i) = \prod_{i=1}^n \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}x_i^2\right) = \frac{1}{(2\pi)^{n/2}} \exp\left(-\frac{1}{2}\sum_{i=1}^n x_i^2\right)$$
$$M = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

1. *Journal of the American Medical Association*, 1990; 263: 1025-1028.

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UNIT NINE MILE POINT No. 1DATE 74 0801COMPLETED BY T. J. PERKINSDAILY PLANT POWER OUTPUTMONTH JULY, 1974

| <u>DAY</u> | <u>AVERAGE DAILY MWe-net</u> | <u>DAY</u> | <u>AVERAGE DAILY MWe-net</u> |
|------------|------------------------------|------------|------------------------------|
| 1 | <u>0</u> | 25 | <u>539</u> |
| 2 | <u>75</u> | 26 | <u>540</u> |
| 3 | <u>168</u> | 27 | <u>539</u> |
| 4 | <u>218</u> | 28 | <u>540</u> |
| 5 | <u>284</u> | 29 | <u>542</u> |
| 6 | <u>335</u> | 30 | <u>551</u> |
| 7 | <u>383</u> | 31 | <u>546</u> |
| 8 | <u>422</u> | | |
| 9 | <u>407</u> | | |
| 10 | <u>431</u> | | |
| 11 | <u>475</u> | | |
| 12 | <u>483</u> | | |
| 13 | <u>380</u> | | |
| 14 | <u>445</u> | | |
| 15 | <u>494</u> | | |
| 16 | <u>517</u> | | |
| 17 | <u>530</u> | | |
| 18, | <u>531</u> | | |
| 19 | <u>512</u> | | |
| 20 | <u>368</u> | | |
| 21 | <u>439</u> | | |
| 22 | <u>488</u> | | |
| 23 | <u>494</u> | | |
| 24 | <u>526</u> | | |

UNIT NAME Nine Mile Point No. 1
DATE 74 0801
COMPLETED BY T. J. Perkins - Station Superintendent

O P E R A T I N G S T A T U S

1. REPORTING PERIOD: 740701 TO 740731
GROSS HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL Mwt 1850 MWe-NET 610
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY): None
4. REASONS FOR RESTRICTIONS (IF ANY):

| | THIS
MONTH | YR-TO-DATE | CUMULATIVE
TO DATE |
|---|---------------|------------|-----------------------|
| 5. HOURS REACTOR WAS CRITICAL. | 739.12 | 2939.27 | Not Available |
| 6. HOURS GENERATOR ON-LINE | 709.8 | 2,822.45 | 26,187.08 |
| 7. GROSS THERMAL POWER GENERATED (Mwt) | 1,020,624 | 4,579,270 | 40,943,053 |
| 8. GROSS ELECTRICAL POWER GENERATED (MWh) | 326,935 | 1,528,760 | 13,495,843 |
| 9. NET ELECTRICAL POWER GENERATED (MWh) | 316,758 | 1,482,494 | 13,076,986 |
| 10. REACTOR AVAILABILITY FACTOR (1) | 99.34 | 57.7 | Not Available |
| 11. PLANT AVAILABILITY FACTOR (2) | 95.4 | 55.4 | 62.9 |
| 12. PLANT CAPACITY FACTOR (3) | 69.8 | 47.8 | 51.5 |
| 13. FORCED OUTAGE RATE (4) | 0 | 0 | 15.3 |
| 14. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE AND
DURATION OF EACH): | | | |

15. IF SHUTDOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP: _____
16. PLANTS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:

| | DATE LAST
FORECAST | DATE
ACHIEVED | REASON FOR
DIFFERENCE |
|--|-----------------------|------------------|--------------------------|
| INITIAL CRITICALITY | _____ | _____ | _____ |
| INITIAL ELECTRICAL
POWER GENERATION | _____ | _____ | _____ |
| COMMERCIAL OPERATION | _____ | _____ | _____ |

- (1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
(2) PLANT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON-LINE}}{\text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
(3) PLANT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{CURRENTLY LICENSED POWER LEVEL} \times \text{GROSS HOURS IN REPORTING PERIOD}} \times 100$
(4) FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON-LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

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SUMMARY:

Unit No. 1 Shutdown for Annual
Overhaul and Refueling

UNIT NAME Nine Mile Point No.1DATE 740801COMPLETED BY T. J. PerkinsREPORT MONTH JULY, 1974

P L A N T S H U T D O W N S

| NO. | DATE | TYPE
F-FORCED
S-SCHEDULED | DURATION
(HOURS) | REASON (1) | METHOD OF
SHUTTING DOWN
THE REACTOR (2) | COMMENTS |
|-----|--------|---------------------------------|---------------------|------------|---|----------|
| 1 | 740330 | S | 34.2 | C | A | |

(1) REASON:
A-EQUIPMENT FAILURE (EXPLAIN)
• B-MAINT. OR TEST
C-REFUELING
D-REGULATORY RESTRICTION
E-OPERATOR TRAINING AND
 LICENSE EXAMINATION
F-ADMINISTRATIVE
G-OPERATIONAL ERROR
 (EXPLAIN)

(2) METHOD:
A- MANUAL
B- MANUAL SCRAM
C- AUTOMATIC SCRAM

