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 STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Public 05000529
 STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Public 05000530
 AUTH. NAME AUTHOR AFFILIATION
 VAN BRUNT, E.E. Arizona Public Service Co.
 RECIP. NAME RECIPIENT AFFILIATION
 NOVAK, T.M. Assistant Director for Licensing

SUBJECT: Forwards response to 821202 telephone request re emergency operations facility. Conceptual design for upgraded emergency response facilities under NRC review.

DISTRIBUTION CODE: B001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES: Standardized plant. 05000528
 Standardized plant. 05000529
 Standardized plant. 05000530

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1. The first step in the process of the investigation is the identification of the problem. This is done by the investigator who is responsible for the study. The next step is to collect data. This is done by the investigator who is responsible for the study. The next step is to analyze the data. This is done by the investigator who is responsible for the study. The next step is to interpret the data. This is done by the investigator who is responsible for the study. The next step is to report the results. This is done by the investigator who is responsible for the study.

^a Values are means ± SD.

• 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016

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. 841. 842. 843. 844. 845. 846. 847

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1. The first step in the process of identifying a problem is to define the problem. This involves identifying the symptoms of the problem and determining the scope of the problem. Once the problem has been defined, the next step is to identify the causes of the problem. This involves identifying the factors that are contributing to the problem and determining the root cause of the problem. Once the causes of the problem have been identified, the next step is to develop a plan to address the problem. This involves identifying the actions that need to be taken to address the problem and determining the resources that will be needed to implement the plan. Once a plan has been developed, the next step is to implement the plan. This involves taking the actions that have been identified in the plan and monitoring the progress of the plan. Finally, the last step in the process is to evaluate the results of the plan. This involves determining whether the plan has been successful in addressing the problem and identifying any lessons learned from the process.

וְהַיְהוּדִים יִשְׁמְרוּ אֶת הַמִּצְוֹת וְיִשְׁמְרוּ אֶת הַמִּצְוֹת

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• 48111 1 10 527 897 959 : 11 1
• 48112 1 10 528 898 960 : 11 1
• 48113 1 10 529 899 961 : 11 1

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Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

December 6, 1982
ANPP-22449 - ACR/WFQ

Mr. T. H. Novak
Assistant Director for Licensing
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

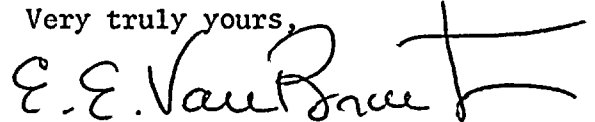
Subject: Palo Verde Nuclear Generating Station
(PVNGS) Units 1, 2 and 3
Docket Nos. STN-50-528/529/530
File: 82-056-026; G.1.01.10

Dear Mr. Novak

This letter is provided in response to a December 2, 1982 telephone request from E. Licitra to W. Quinn regarding the PVNGS Emergency Operations Facility.

Attachment 1 provides the NRC questions and the APS responses. If you have any further questions, please contact me.

Very truly yours,



E. E. Van Brunt, Jr.
APS Vice President,
Nuclear Projects
ANPP Project Director

EEVBJr/WFQ/sp
Attachment

cc: E. Licitra
L. Bernabei
P. Hourihan
A. Gehr

Boo1

8212080157 821206
PDR, ADOCK 05000528
F PDR

December 6, 1982
ANPP-22449 - ACR/WFQ

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, Edwin E. Van Brunt, Jr., represent that I am Vice President Nuclear Projects of Arizona Public Service Company, that the foregoing document has been signed by me on behalf of Arizona Public Service Company with full authority so to do, that I have read such document and know its contents, and that to the best of my knowledge and belief; the statements made therein are true.

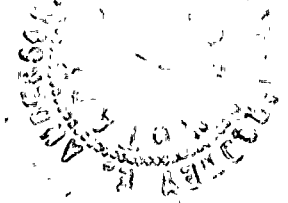
Edwin E. Van Brunt, Jr.
Edwin E. Van Brunt, Jr.

Sworn to before me this 6th day of December, 1982.

Rodney F. Anderson
Notary Public

My Commission expires:

My Commission Expires July 28, 1986





ATTACHMENT 1

RESPONSE TO NRC 12/2/82 REQUEST FOR INFORMATION

NRC Question 1:

NRC transmitted Generic Letter 81-10 on February 18, 1981 (subject Emergency Operations Facilities)

- a. By what letter and date did APS respond to NRC's generic letter?
- b. Provide any APS related correspondence to NRC including dates.

RESPONSE: The NRC February 18, 1981 Generic letter was received by APS on March 9, 1981.

- a. Letter from E. E. Van Brunt, Jr., APS, to D. Eisenhut, NRC, (ANPP-17615 - JMA/WFQ dated March 25, 1981).
Letter states APS will meet the NRC dates. NRC's response to the APS letter (ANPP-17615 - JMA/WFQ dated March 25, 1981) was provided by the following letter: Memorandum for all Operating Reactor and Licensing Branch Chiefs from S. Ramos dated October 16, 1981. Subject: Modification of the Location and Habitability Criteria for Emergency Operations Facilities. This memorandum was referenced in a subsequent APS letter (Section H) to NRC (ANPP-19562 - EEVB/KWG, dated November 30, 1981)
- b.. Letter from E. E. Van Brunt, Jr., APS to F. Miraglia, NRC, (ANPP-17579 - JMA/WFQ dated March 19, 1981) Letter stated proposed APS EOF design and requested NRC guidance as to acceptability.

Letter from E. E. Van Brunt, Jr., APS, to Director, NRC, (ANPP-18466 - JMA/KWG dated August 3, 1981) Letter provided Amendment 1 to APS Lessons Learned Implementation Report (LLIR) which included an up date of item III.A.1.2 C Emergency Operations Facility based on the February 18, 1981 NRC generic letter.

NRC Question 2:

With regard to APS' primary EOF:

- a. Where located?
- b. What structural type?
- c. What is protection factor?
- d. When did construction begin?
- e. What is construction status?
- f. Does APS EOF design include HEPA filters?

- RESPONSE:
- a. The PVNGS EOF is located onsite (outside of the protected area) in the basement of the Administration Annex Building. (Refer to LLIR section III.A.1.2 and figure III.A.1.2-1).
 - b. The PVNGS EOF is constructed from concrete. (Refer to ANPP-17579 JMA/WFQ dated March 19, 1981).
 - c. Protection factors from 350 to greater than 2000 have been calculated by several different methods. (Refer to ANPP-17579 JMA/WFQ dated March 19, 1981).
 - d. EOF Construction began June 23, 1981.
 - e. The building structure is complete except for instrumentation. Expect complete by fuel load.

- f. EOF design includes HEPA and charcoal filters. (Refer to ANPP-17579 JMA/WFQ dated March 19, 1981)

NRC Question 3:

With regard to APS' Backup EOF:

- a. Where located (distance from site)?
- b. What is structural type?
- c. When did construction begin?
- d. What is construction status?

- RESPONSE:
- a. An alternate EOF is located approximately 8 miles NW of PVNGS at the Palo Verde Inn in Tonopah. (Refer to PVNGS Emergency Plan section 7.1.6).
 - b. The structural type is wood frame (stucco) with windows.
 - c. This was an existing structure.
 - d. The structure is completed.

NRC Question 4:

Is or has APS proposed any interim EOF facilities?

RESPONSE: APS is not proposing any interim facilities.

NRC Question 5:

Has NRC approved permanent facility design?

RESPONSE: As stated in the PVNGS SER (NUREG-0857) section 13.3 pg. 13-21: "... the staff is currently reviewing the applicant's conceptual design for the upgraded emergency response facilities. Also, refer to the NRC discussion in the PVNGS SER Supplement 1 Appendix C page C-11.

