

SEISMIC OBE AND SSE
REQUIRED RESPONSE SPECTRA (RRS)
FOR THE REACTOR BUILDING

RIVER BEND STATION - UNIT 1
GULF STATES UTILITIES COMPANY
WEST FELICIANA PARISH, LOUISIANA

STONE & WEBSTER ENGINEERING CORPORATION
CHERRY HILL OPERATIONS CENTER
CHERRY HILL, NEW JERSEY

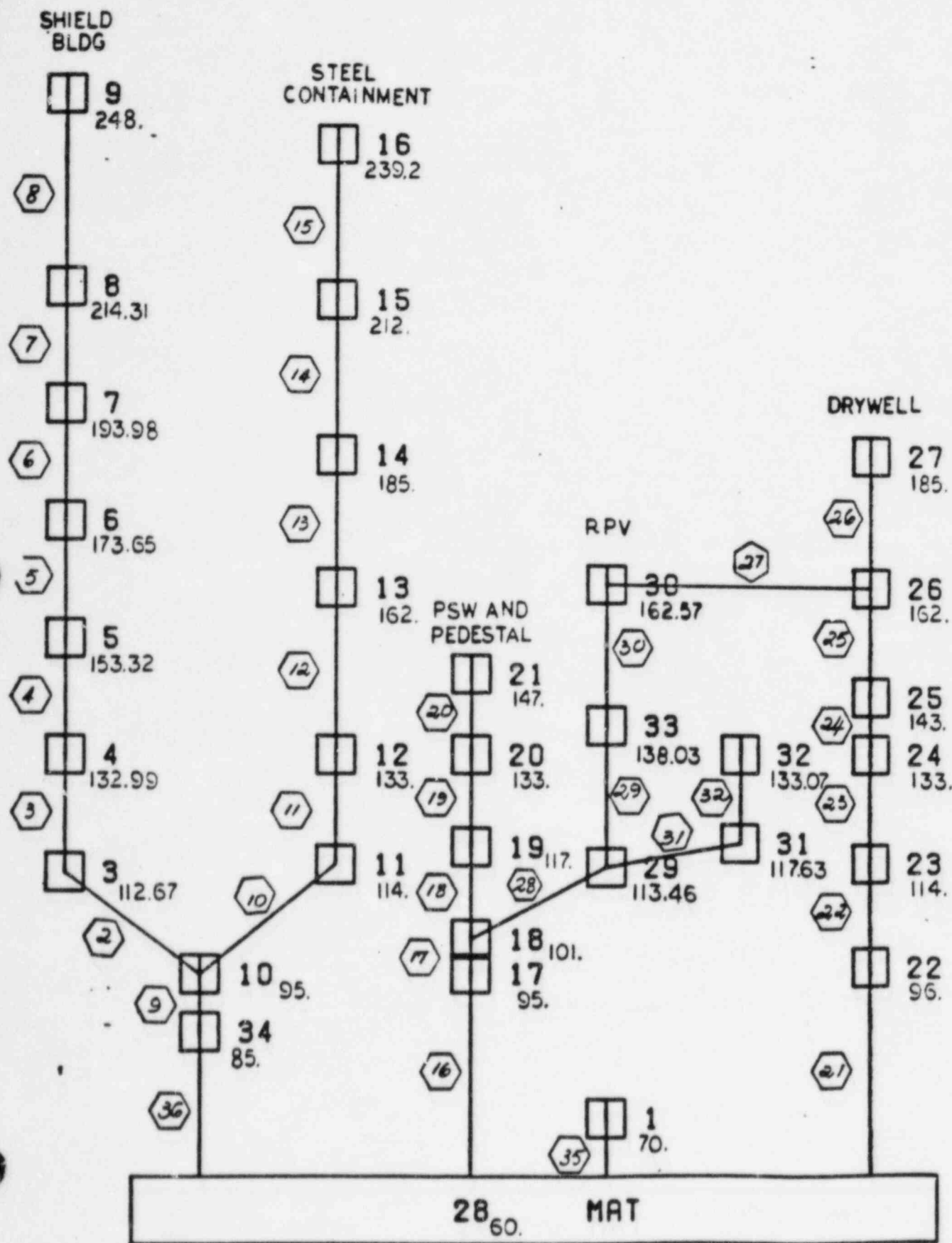
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REQUIRED RESPONSE SPECTRA (RRS)

<u>Mass Point - Location</u>	<u>Elevation (ft)</u>	<u>Reference No.*</u>
28 - Mat	60.00	69
1 - Top of Mat	70.00	70
3 - Shield Building	112.67	71
4 -	132.99	72
5 -	153.32	73
6 -	173.65	74
7 -	193.98	75
8 -	214.31	76
9 -	248.00	77
10 - Comp. Shield Building	95.00	78
34 -	85.00	79
11 - Steel Containment	114.00	80
12 -	133.00	81
13 -	162.00	82
14 -	185.00	83
15 -	212.00	84
16 -	239.20	85
17 - PSW Pedestal	95.00	86
18 -	101.00	87
19 - Primary Shield Wall (PSW)	117.00	88
20 -	133.00	89
21 -	147.00	90
22 - Drywell	96.00	91
23 -	114.00	92
24 -	133.00	93
25 -	143.00	94
26 -	162.00	95
27 -	185.00	96
29 - RPV	113.46	97
30 -	162.57	98
31 - RPV (Internal)	117.63	99
32 -	133.07	100
33 - RPV	138.03	101

*Each reference number includes:

1. Horizontal and vertical direction OBE condition at 2 percent damping.
2. Horizontal and vertical direction SSE condition at 2, 3, and 4 percent damping.

G.S.U - R.B.1 - J.O 12210 CALC 201.130.124 - A.K.LE
 SEISMIC ANALYSIS OF REACTOR BUILDING W/CONCRETE FIX



PSPECTRA VER 01 LEV 07

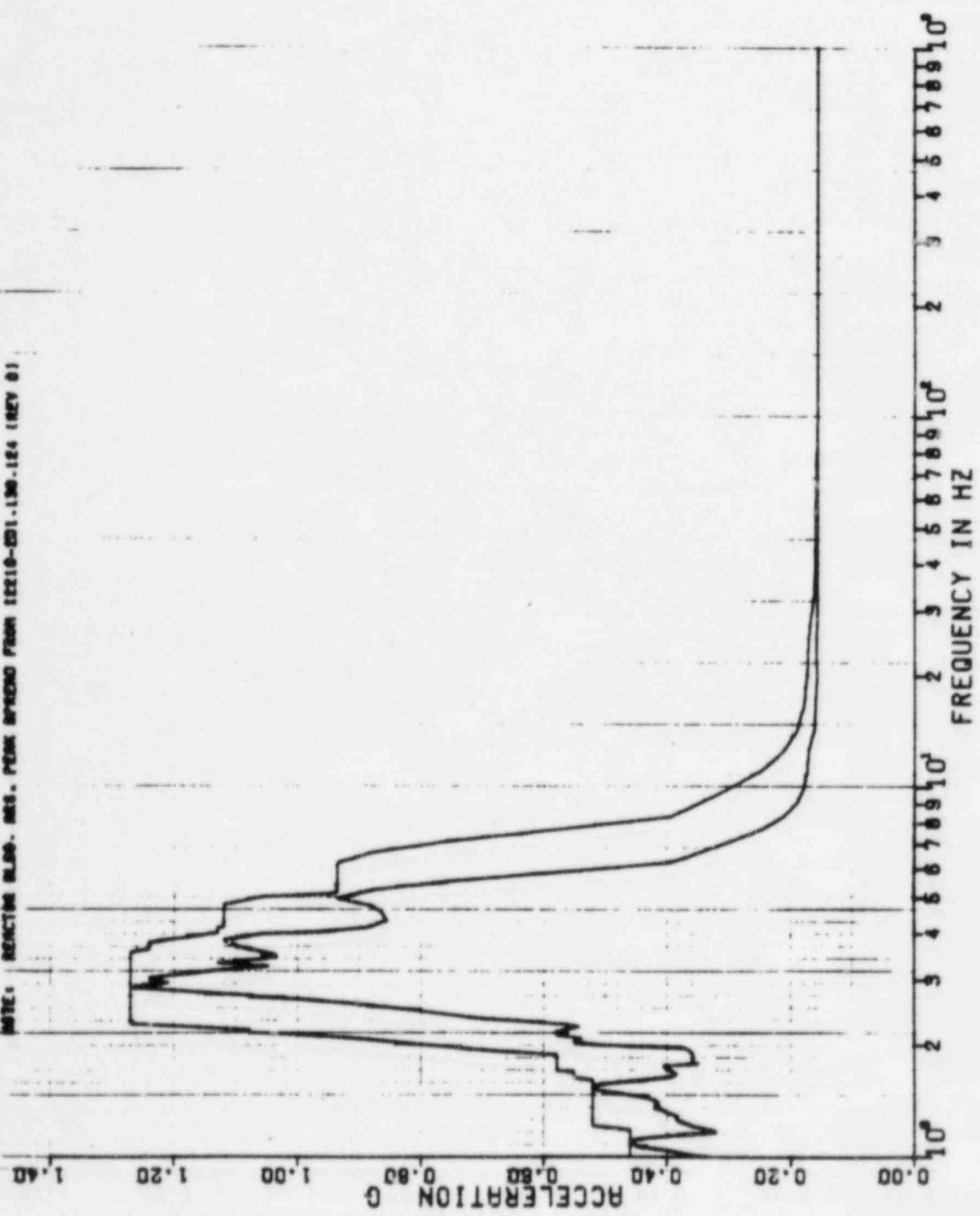
22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SDE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL=60.000.MASS=29 6E16 MODEL-MAT
 PEAK SPREAD -201.+252

DISK CURVE SET NO.53 0.5 SSE NOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-201.150-124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-SSE-1903 REV(0)
RSS OF ACC.-REACTOR BLDG.-EL-60.000.MASS-28 SEIS MODEL-MRT
PEAK SPREAD -20%+25%
OBE

DISK CURVE SET NO.53

0.5 SSE

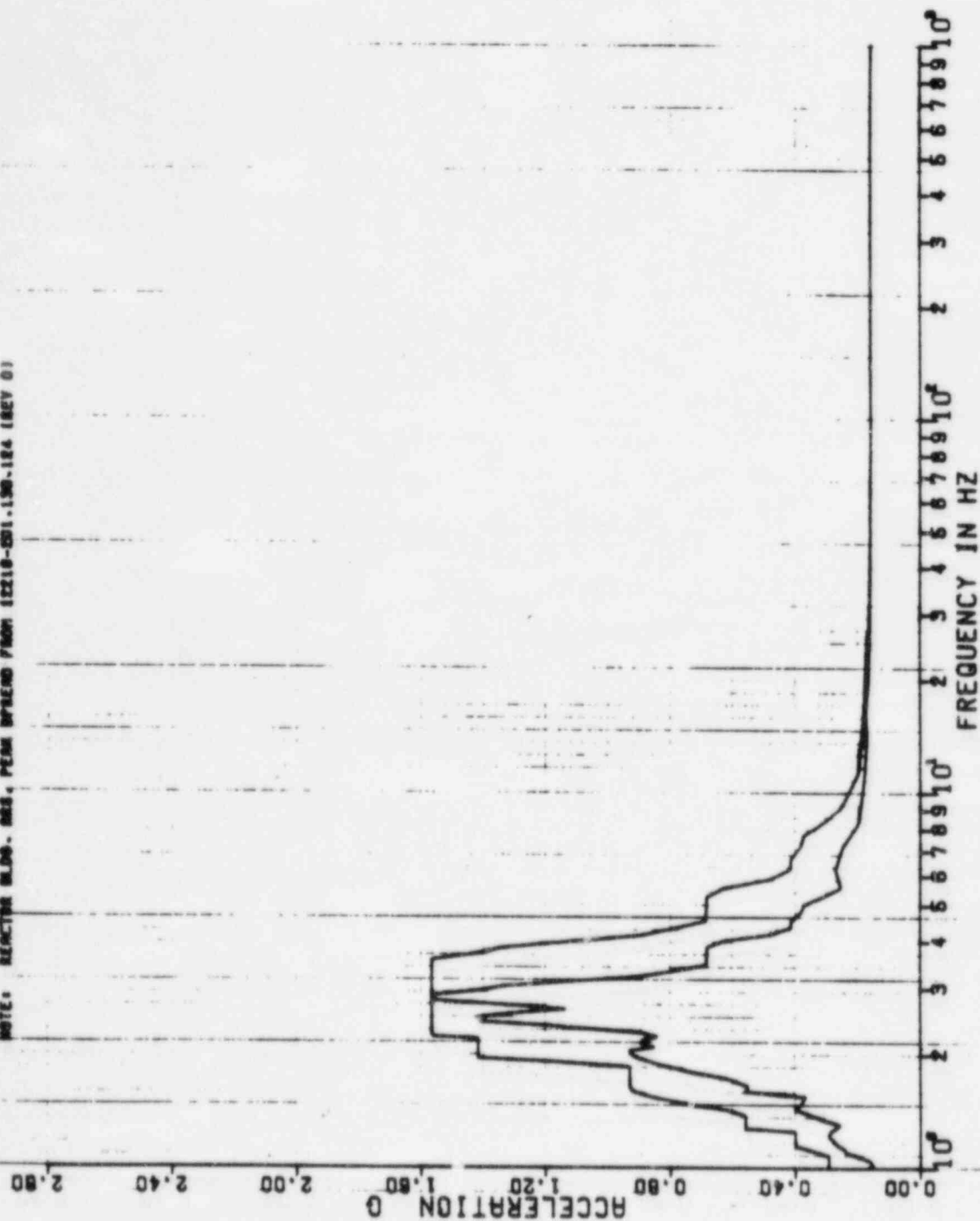
VER DIRECTION

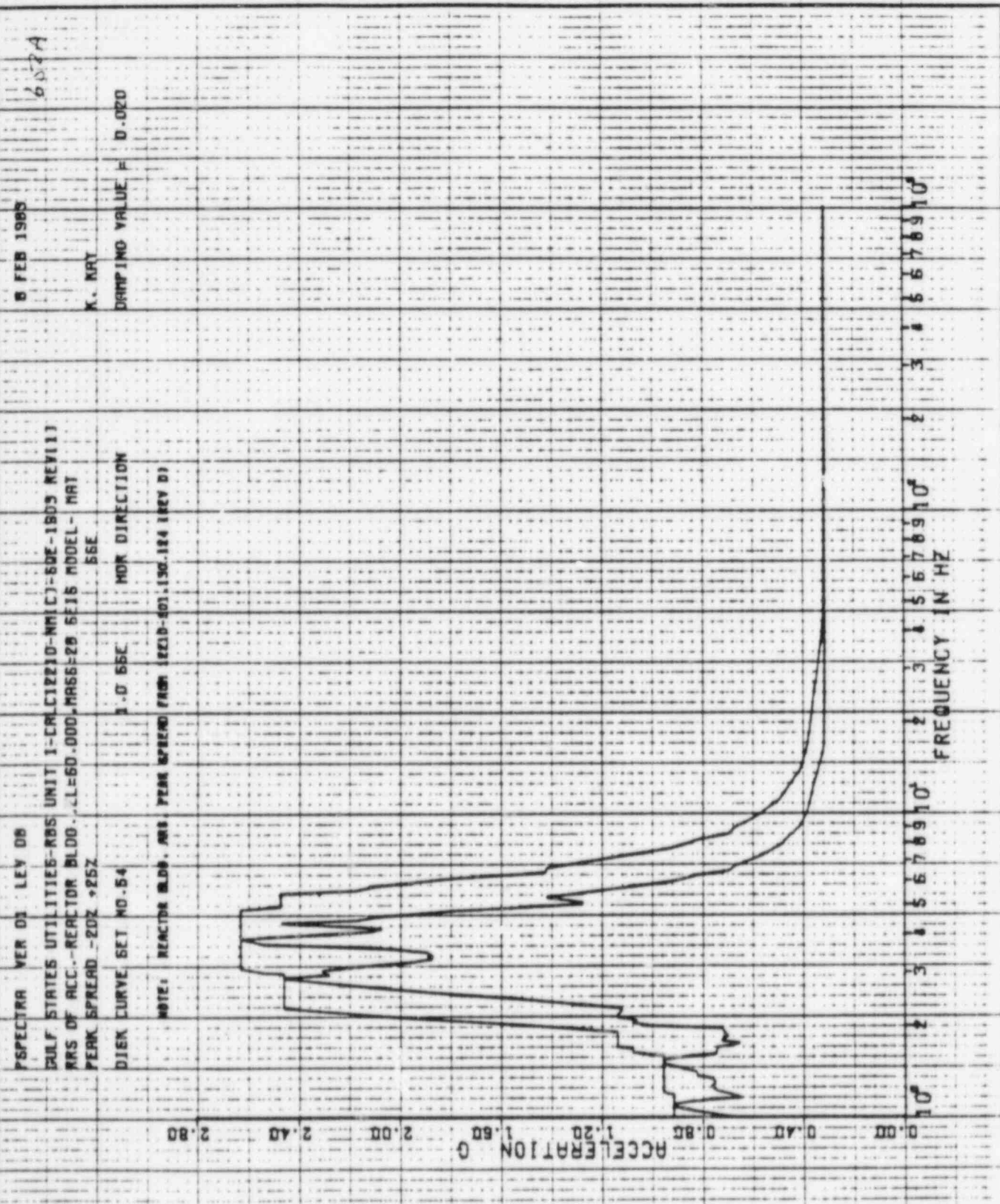
DAMPING VALUE = 0.020

22 APR 1982

K.KAY

NOTE: REACTOR BLDG. 003, PEAK SPREAD FROM 12210-201.130-124 (REV 0)





AS34

6 FEB 1965

M. KAY

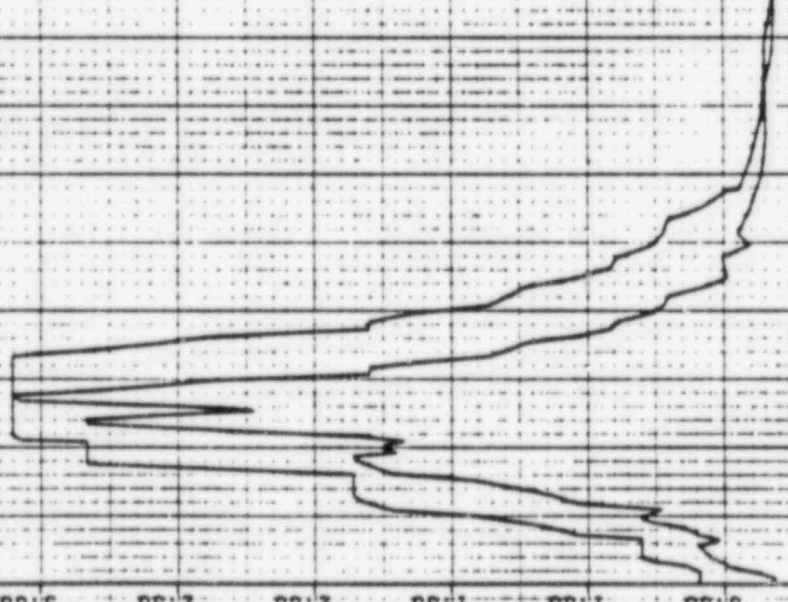
DAMPING VALUE = 0.020

PSPECTRA VER 03 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CR12210-MN1C1-5DE-1903 REV111
 RRS OF ACC.-REACTOR BLDG.-EL-60-000-MA55-26 5E16 MODEL-MAT
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO.54

1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.150-124 (REV B)

ACCELERATION



FREQUENCY IN HZ

22 APR 1962

2604

K.KAY

DAMPING VALUE = 0.030

PERFECTION VER 01 LEV 07

GOLF STATE UTILITIES-885 UNIT 1-CALC12210-NM1C1-582-1903 REV(0)

885 OF REC.-RECTOR BLDG-EL-80.000.MASS-28 SETS MODEL-NAT

PEAK SPREAD -201.575Z

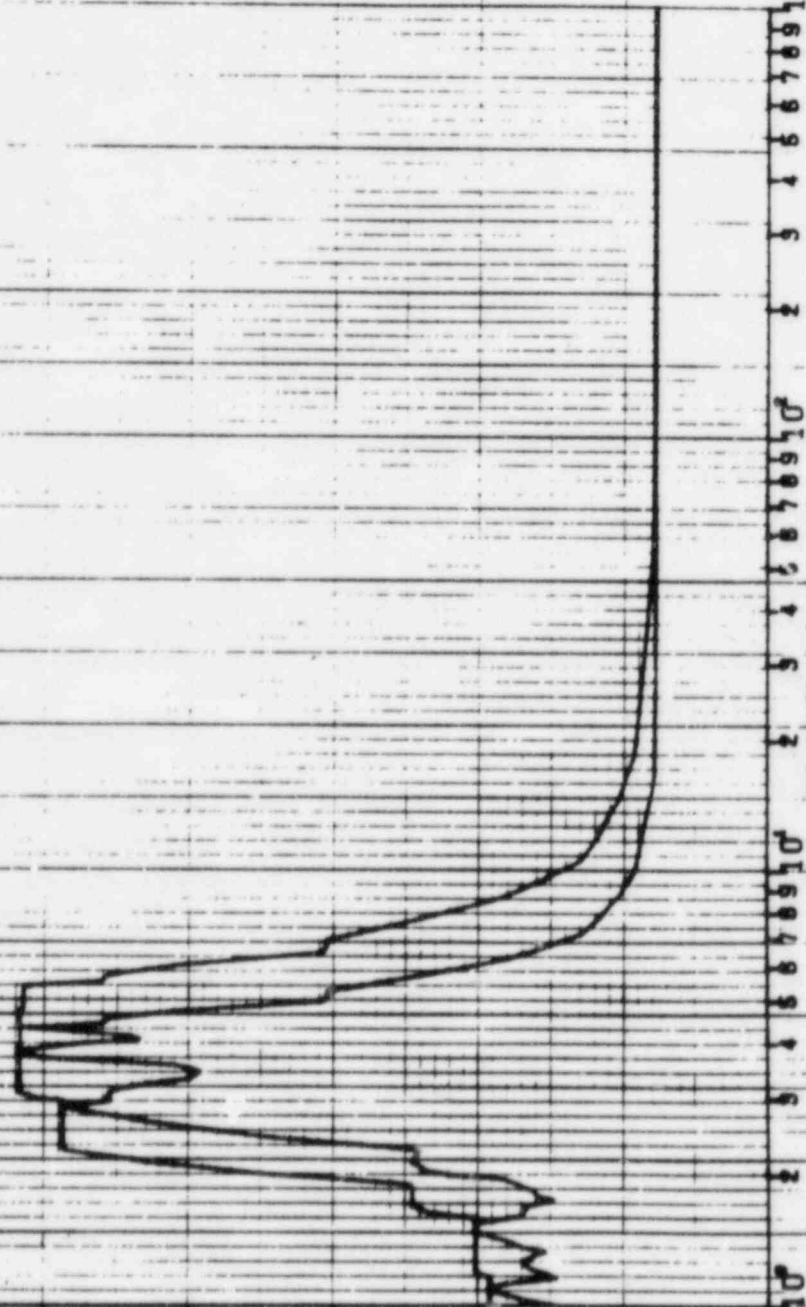
DISK CURVE SET NO.54

1.0 SSE HOR DIRECTION

AMPL. SELECTED BLDG. 885. PEAK SPREAD FROM 12210-001.100.124 (REV 0)

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ 10 9 8 7 6 5 4 3 2 1

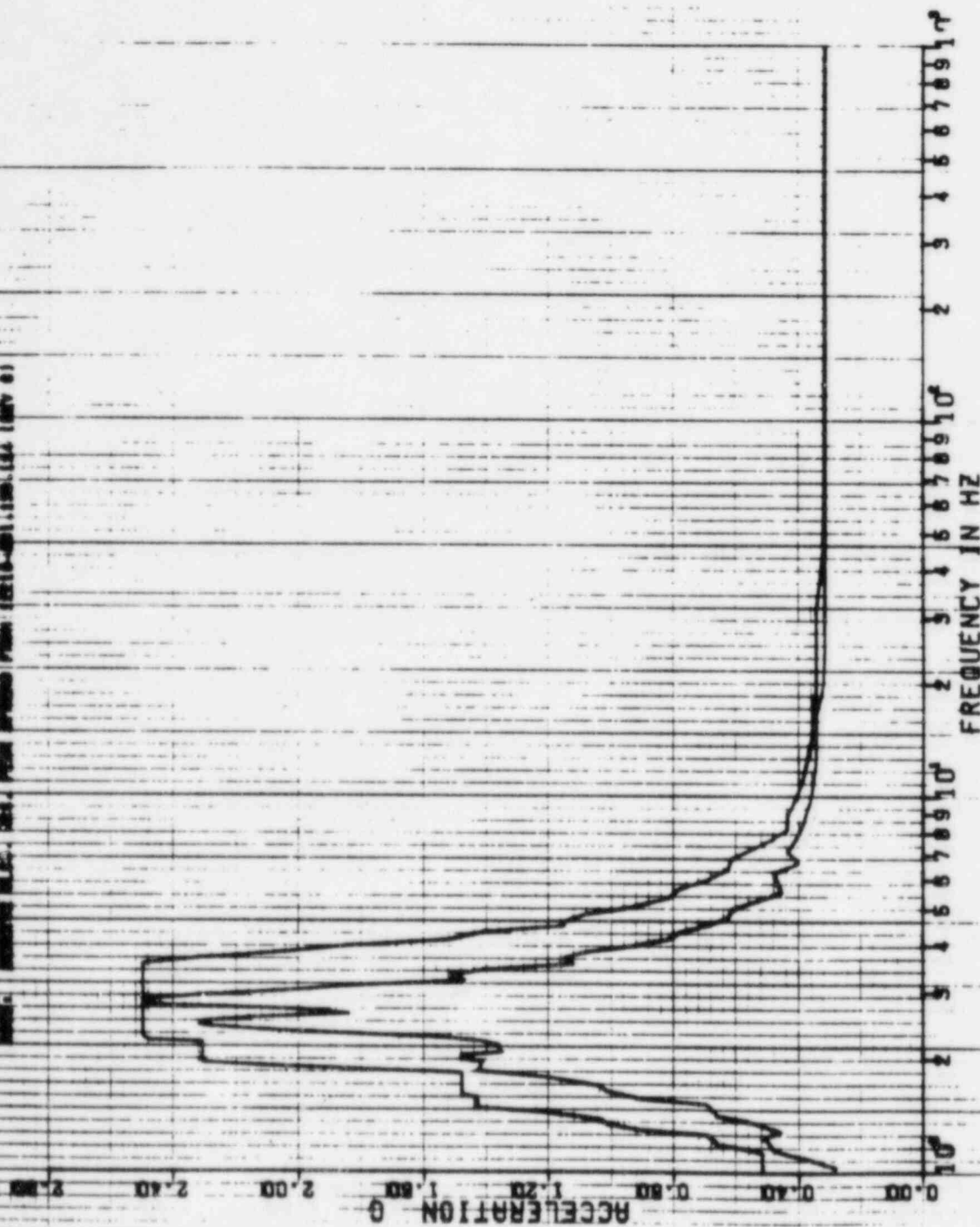


22 APR 1962

K.KAY

DAMPING VALUE = 0.030

PROJECTOR VER DI LEV 07
 DULY STATE UTILITIES - RBS UNIT 1-CALC 12210-MAT 1-502-1903 REV(0)
 RBS OF REC - RECTOR BLDG. EL-60.000. MASS-28 SEIS MODEL-MAT
 PEAK SPREAD - 0.01, 0.25X
 DINK CURVE SET NO. 53
 1.0 SSE VER DIRECTION
 NAME: UNKNOWN BLK. 004. PEAK SPREAD FROM 0.010-0.100. (0.14 UNIT 0)



SPECTRA VER 01 LEV 07

GULF STATE UTILITIES 885 0911 - CMLT 2210-NRITY-SQE-1903 REV 01
 RPS OF ACC - REACTOR BLOC TEL-60,000 MASS-20 SETS MODEL-NR1
 PEAK SPREAD - 201.25%

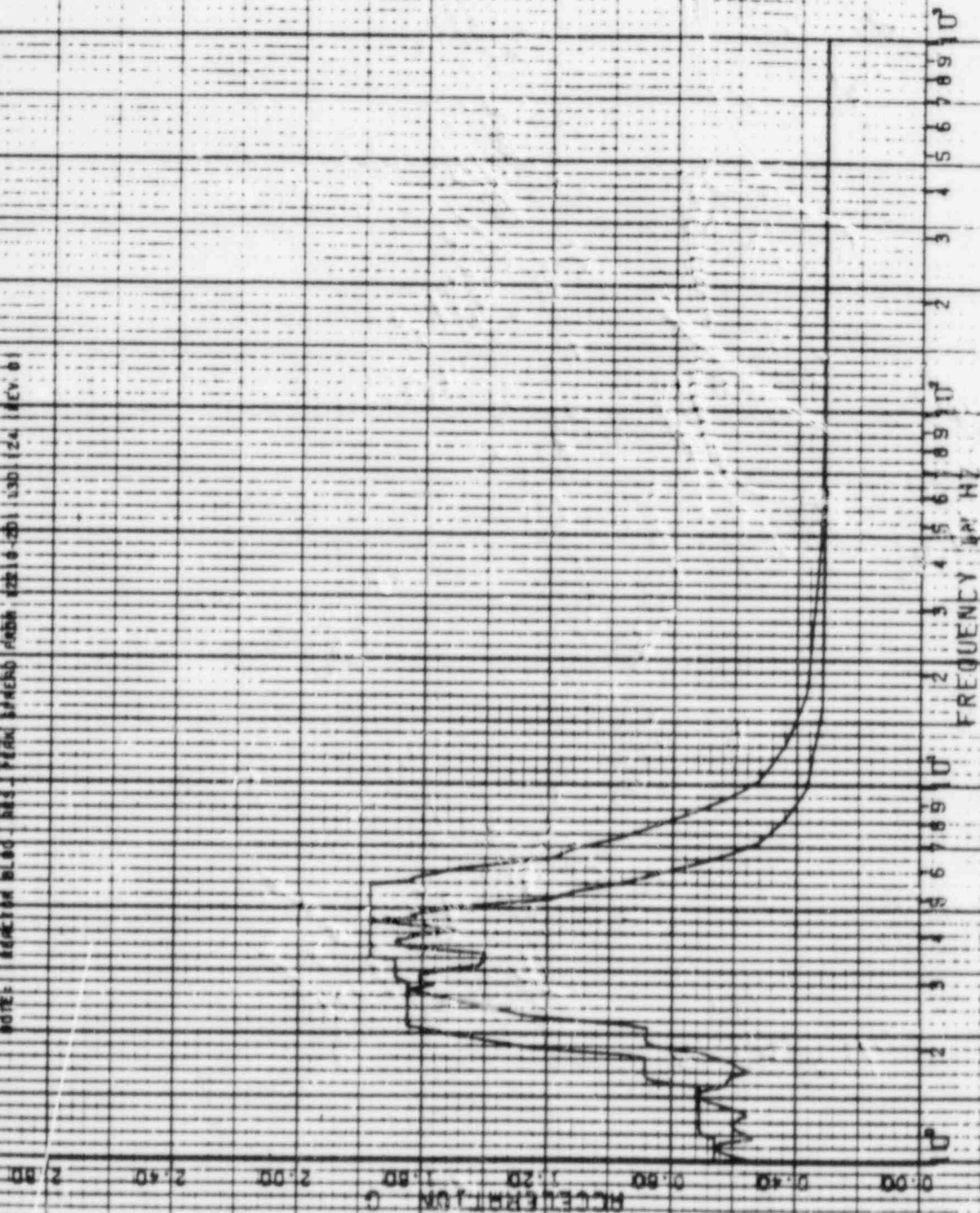
DISK CURVE SET NO. 58

1.0 SSE

ROR DIRECTION

DAMPING VALUE = 0.030

NOTE: REACTION BLOC, REF. PEAK SPREAD FROM 422.10-251.030 (24.1REV. 01)



22 APR 1987

K. KAY

PSPECTRA VER 1 LEV 07
 GULF STATE UTILITIES-R86 UNIT 1-CALC(12210-WHIC)-SQE-1903 REV(0)
 RRG OF ACC.-REACTOR BLDG. EL=70.000. MASS=01 SEIS MODEL-TOP OF MAT
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.1

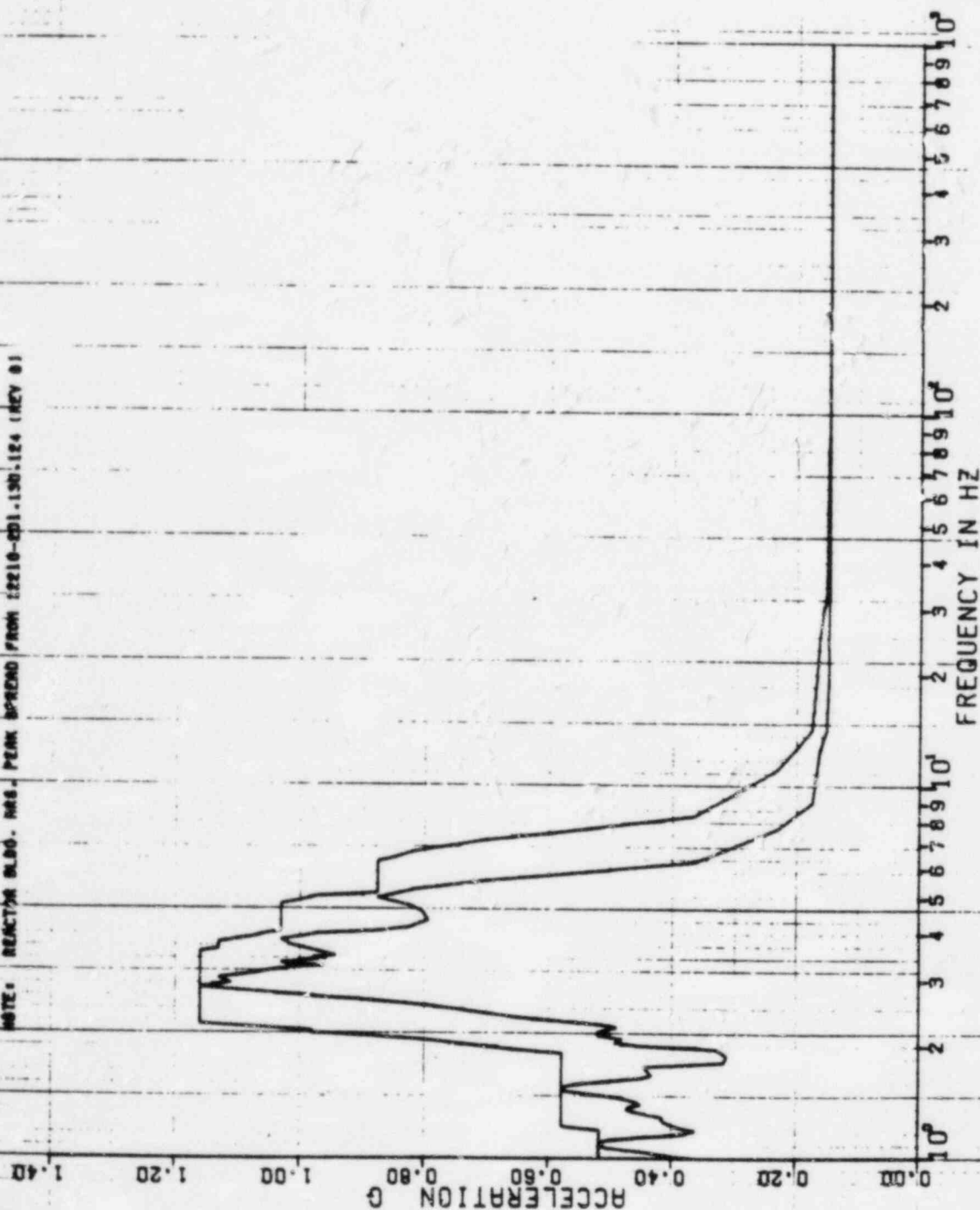
0.5 SSE HOR DIRECTION

NOTE: REACTOR BLDG. MASS- PEAK SPREAD FROM 12210-CP1.150.124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



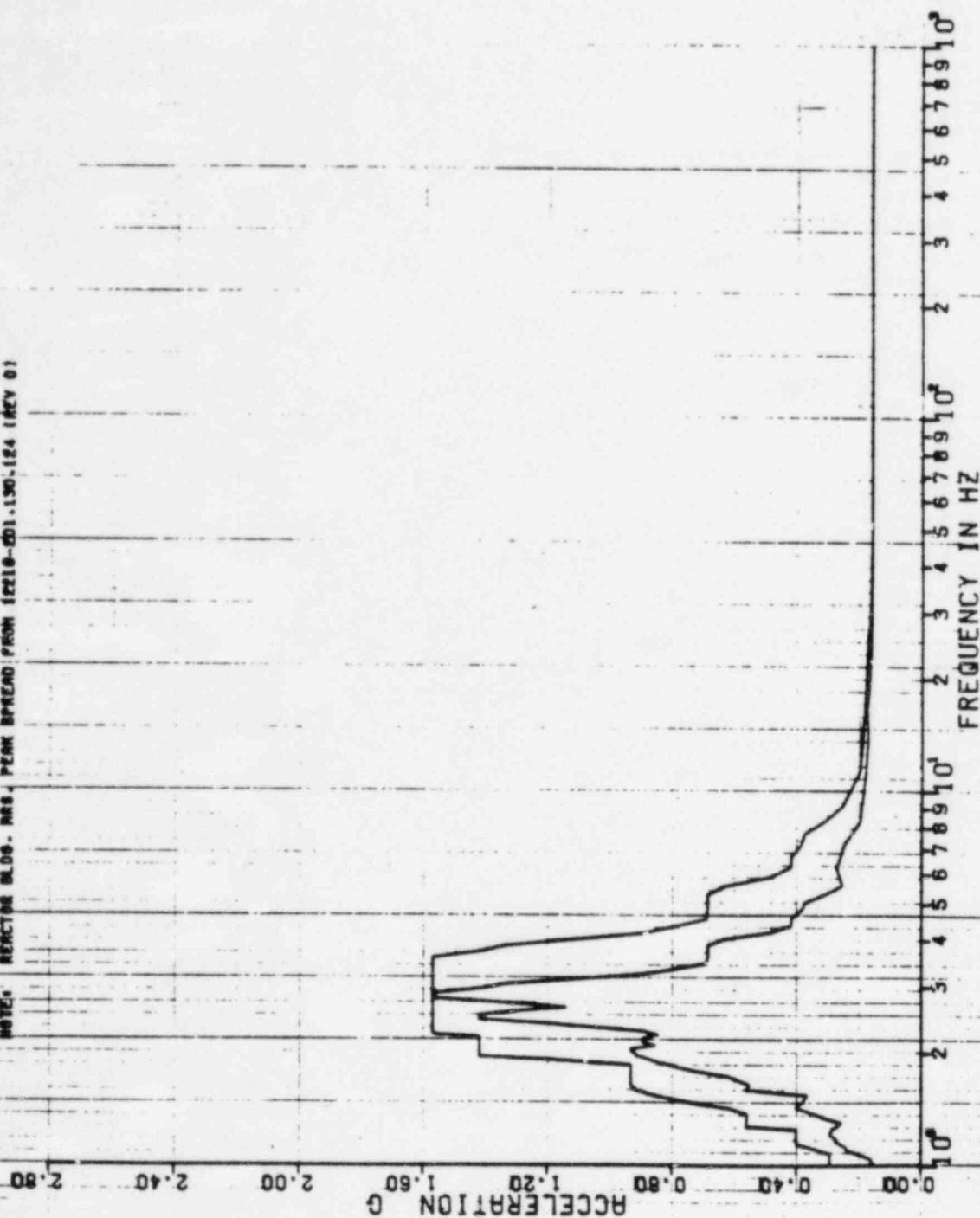
22 APR 1982 2034

K.MAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-SSE-1903 REV101
 RRG OF ACC.-REACTOR BLDG-EL=70.000, MASS=01 SEIS MODEL-TOP OF MAT
 PEAK SPREAD -20%, +25%
 DISK CURVE SET NO.1
 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



PSPECTRA VER 01 LEV 05

GULF STATES UTILITIES-RBS
RRS OF ACC.-REACTOR BLDG.
PEAK SPREAD -20% +25%UNIT: 1-CALC12210-MMIC1-60E-1903 REV117
EL=70.000, MASS=01 SE16 MODEL-TOP OF MAT
56E

DISK CURVE SET NO.2

1.0 SSE HOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201-130-124 (REV D)

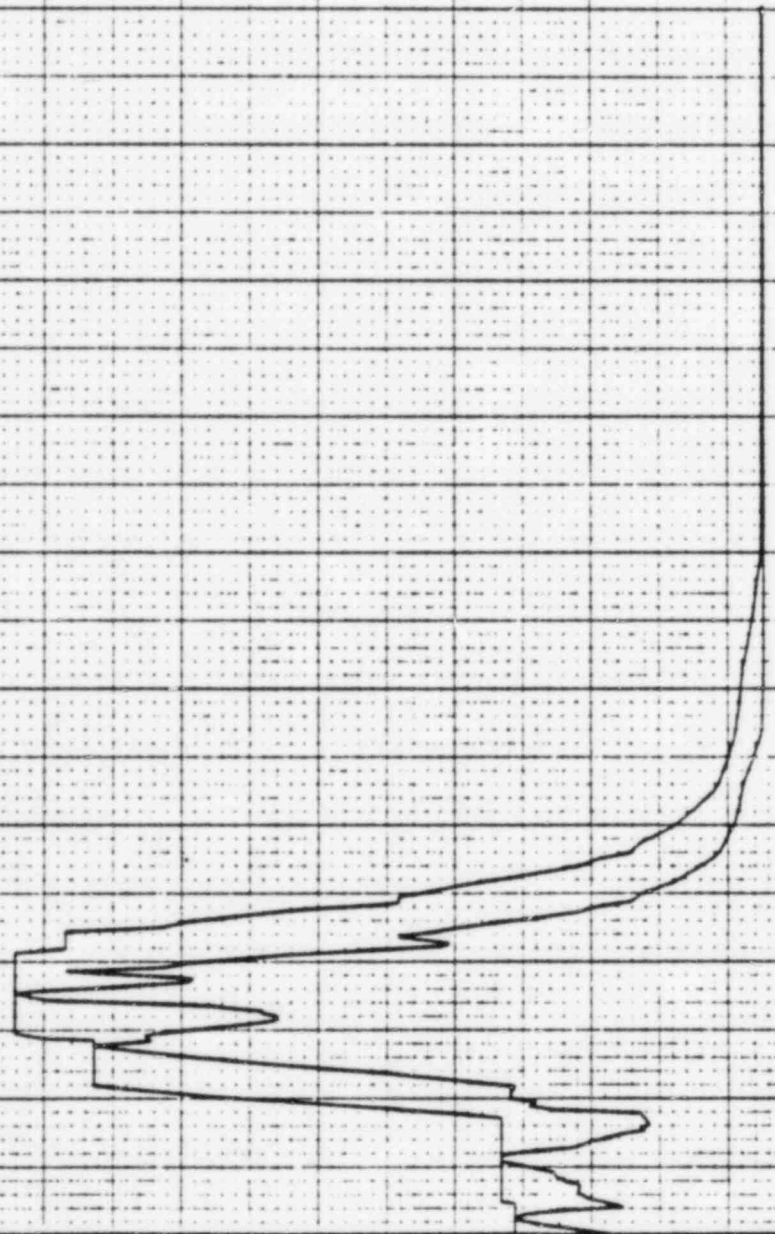
8 FEB 1963

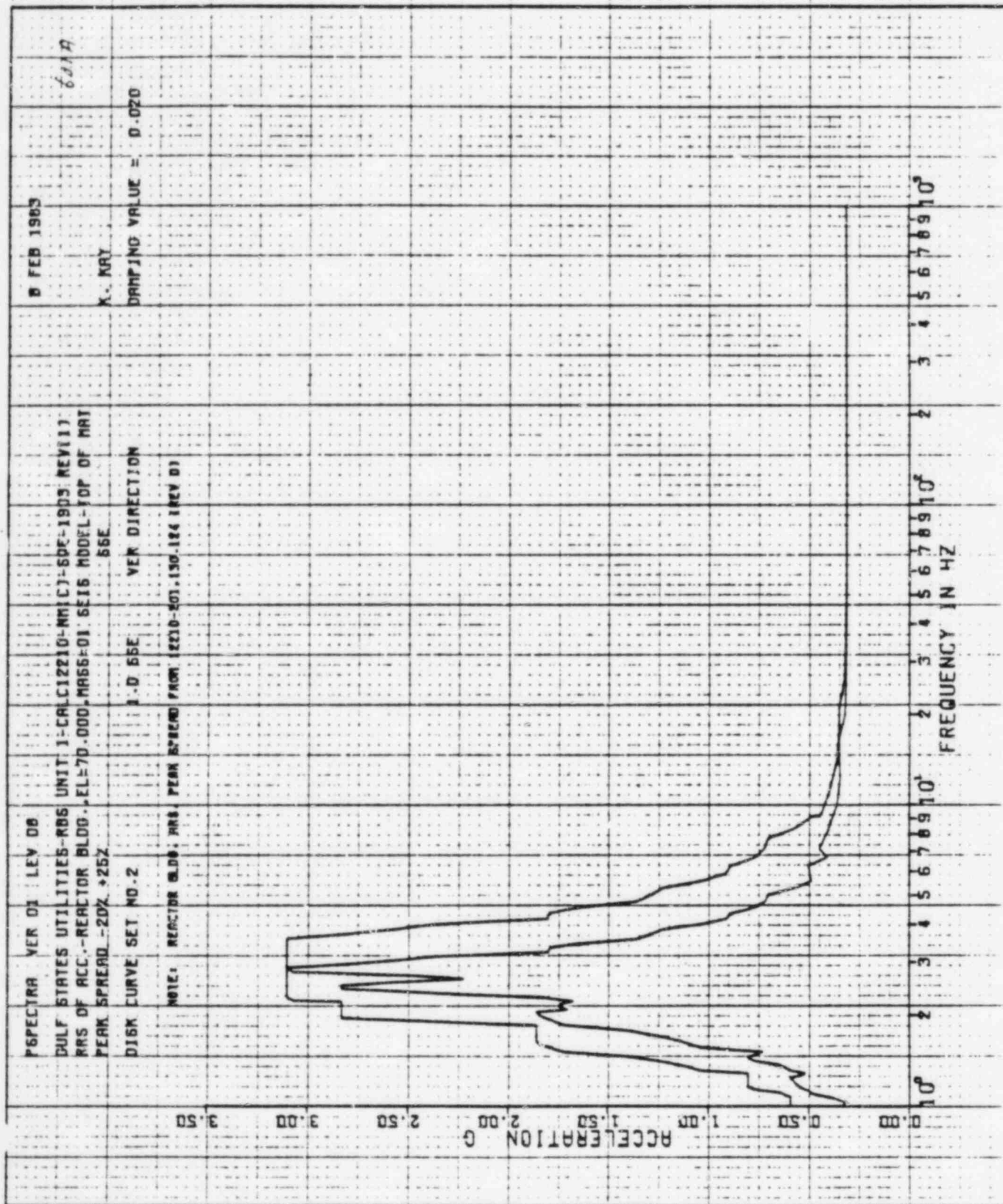
K. MAY

DAMPING VALUE = 0.020

ACCELERATION G

FREQUENCY IN HZ





330

P5SPECTRM VER 01 LEV 07

DULF STATE UTILITIES-ROK WBT 1-CALC12210-EM(-)SCE-1903 REV(0)
RMS OF ACC.-REACTOR GLOW EL=70,000 MASS=0: SEE MODEL TOP OF MAT
PEAK APPEND -237.925Z
SEE

DISK CURVE SET NO. 2

1.0 SEE

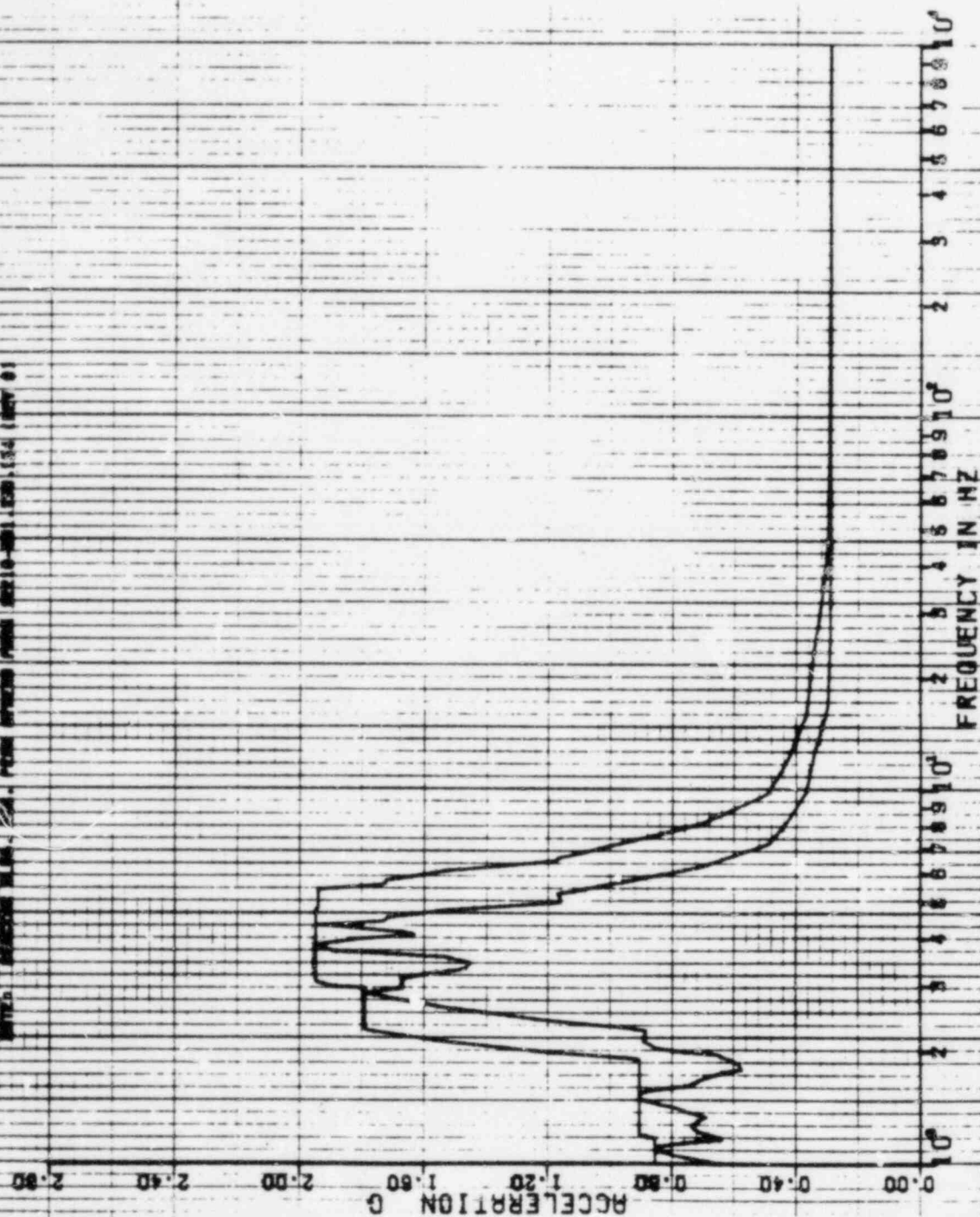
HOR DIRECTION

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

DRINKING VALUE = 0.030

K. KAY

22 APR 1962



33. A

22 APR 1982

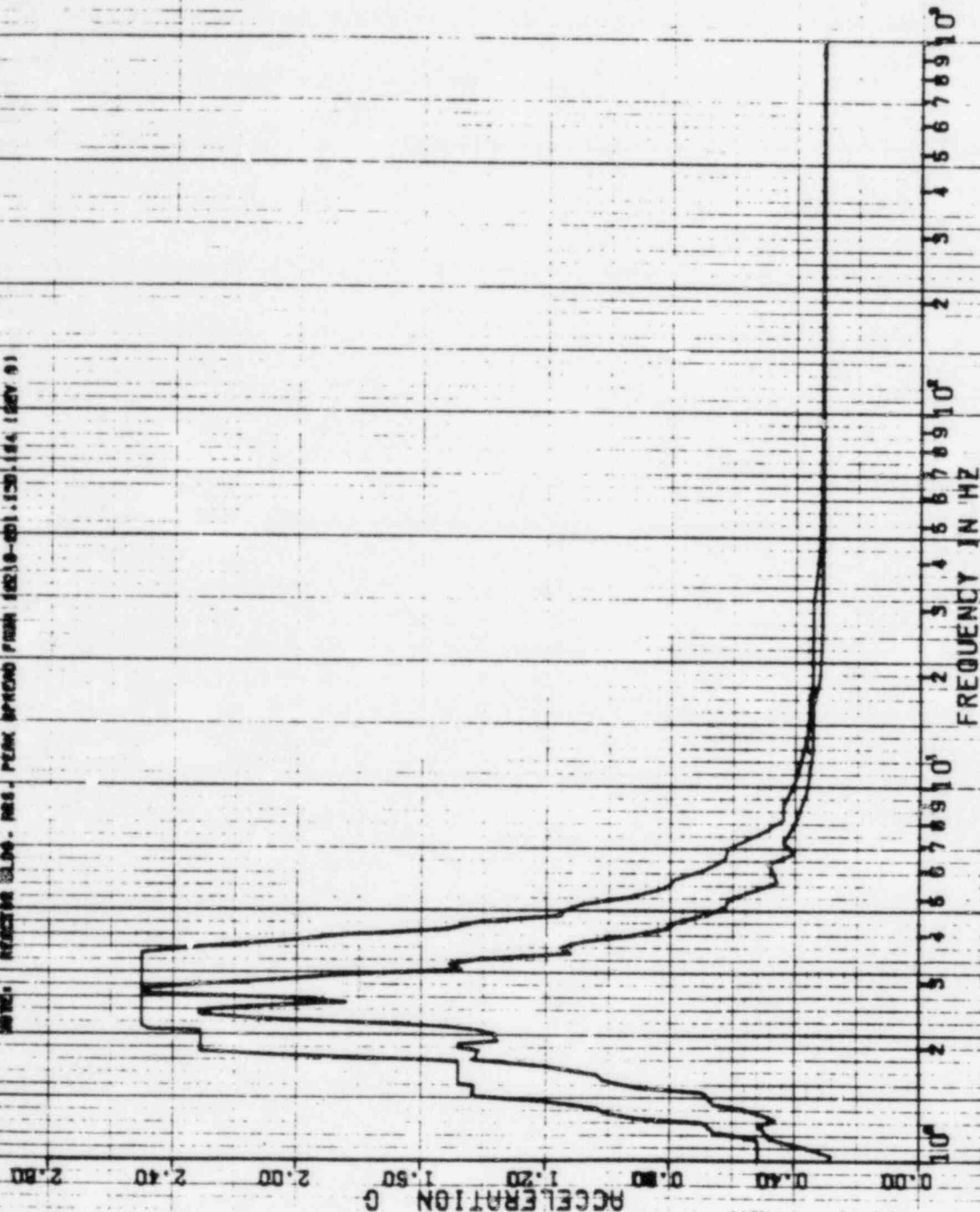
K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM1C1-80C-1903 REC101
 RMS OF ACC.-REACTOR BLDG.-EL-70-000.MASS=0.1 SEIS MODEL TOP OF MAT
 PEAK SPREAD -20%+25%
 DISK CURVE SET NO.2

1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-001.150.164.165V 9)



40-4

22 APR 1988

ALMAY

DAMPING VALUE = 0.000

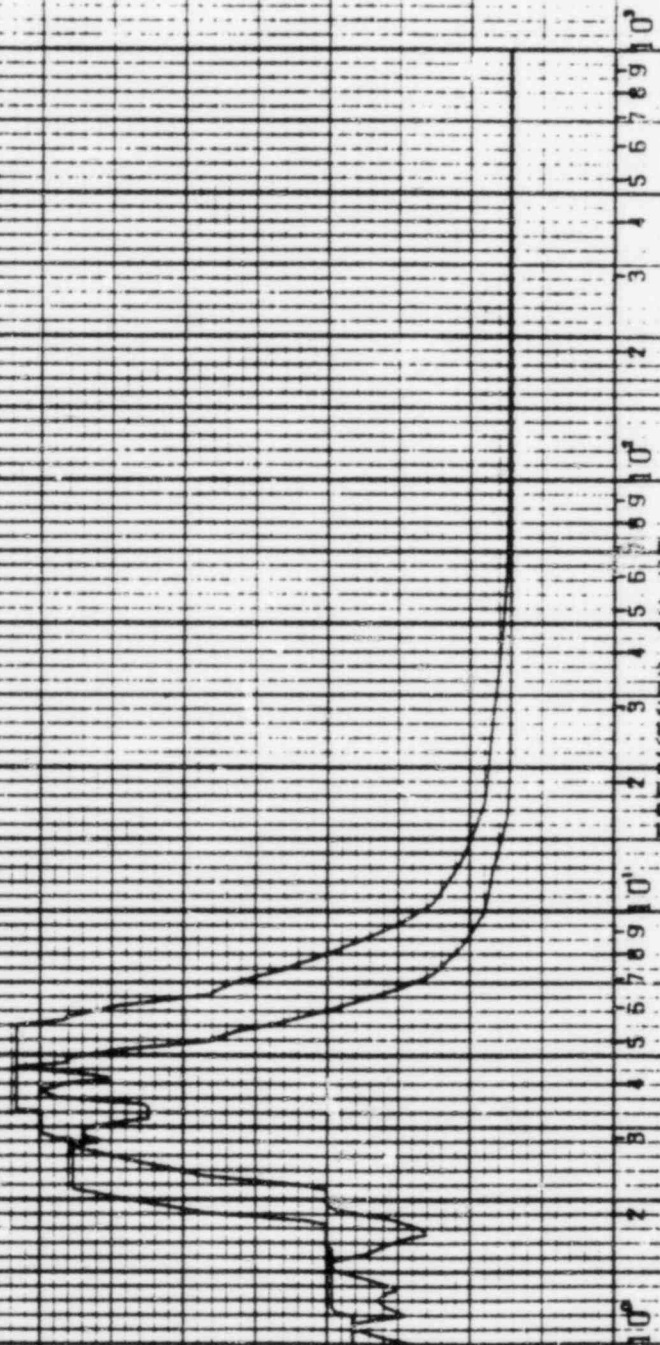
PSPECTRA VER. 01 LEV. 07
 CULT STATE UTILITIES-885 UNIT 1-CALC 18210-WHIC 13-SPE-1803-RZV 23
 RES OF ACC-RECTOR BLOC. FL=50.000. MASSED.01 SETS MODEL TOP OF MAT
 PEAK SPREAD 0.00V. 0.05V

1.0 DISE HOR DIRECTION

NOTE: REACTION BLOC. HAS. PEAK SPREAD FROM 18210-001 TO 18210-01

DISK CURVE SET NO. 2

ACCELERATION G 0.000 0.400 0.800 1.200 1.600 2.000 2.400



FREQUENCY IN HZ

40-1

22 APR 1982

SPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC 12210-WHIC3-SQE-1SD9 REV 01
 RRS OF ACC-REFRATOR BLOC-EL-90.000-MASSED-01 SEIS MODEL TOP OF MAY
 PEAK SPEED -202.252
 DISK CURVE SET NO. 2

K.KAY

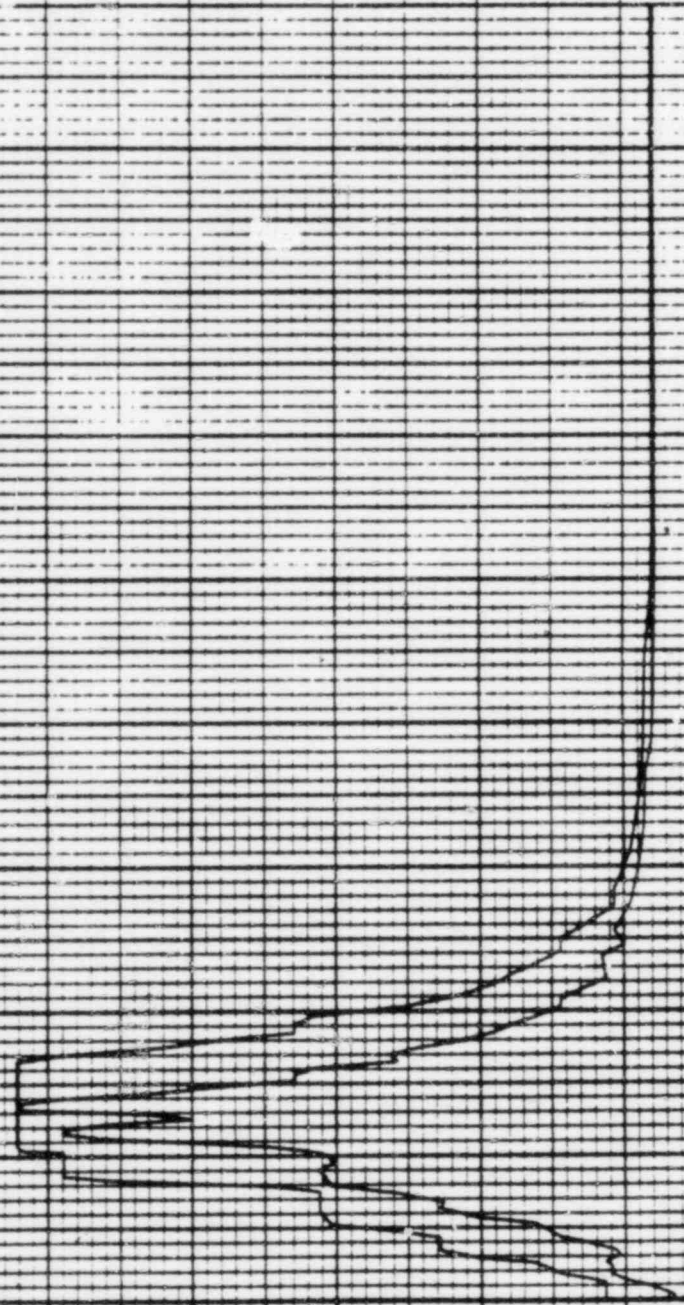
DAMPING VALUE = 0.000

VER DIRECTION

BASE: REACTION 30.00. RES. PEAK SPEED FROM 12210-001 (501.14.104V.51)

ACCELERATION g

FREQUENCY IN HZ



22 APR 1982

K.KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-NR(1)-SSE-1903 REV(0)
RMS OF ACC.-REACTOR BLOO.EL-112.67.MASS=03 SEIS MODEL-SHIELD BLOO.
PEAK SPREAD -20%+25%
08E

DISK CURVE SET NO.3

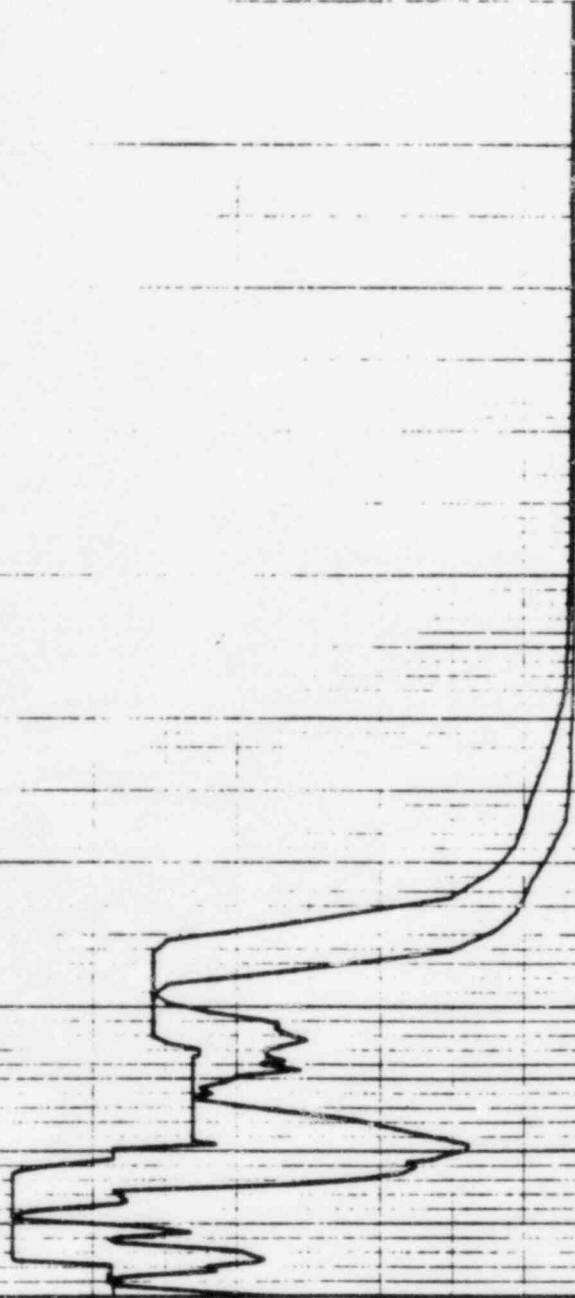
0.6 SSE

NOR DIRECTION

NOTE: REACTOR BLOO. MRS. PEAK SPREAD FROM 12210-001.130-124 (REV 0)

ACCELERATION 0 0.20 0.40 0.60 0.80 1.00 1.20 1.40

10⁰ 2 3 4 5 6 7 8 9 10¹
FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MN(C)-SDE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG. EL=112.67, MASS=03 SEIS MODEL-SHIELD BLDG.
PEAK SPREAD -20%+25%

DISK CURVE SET 0.3

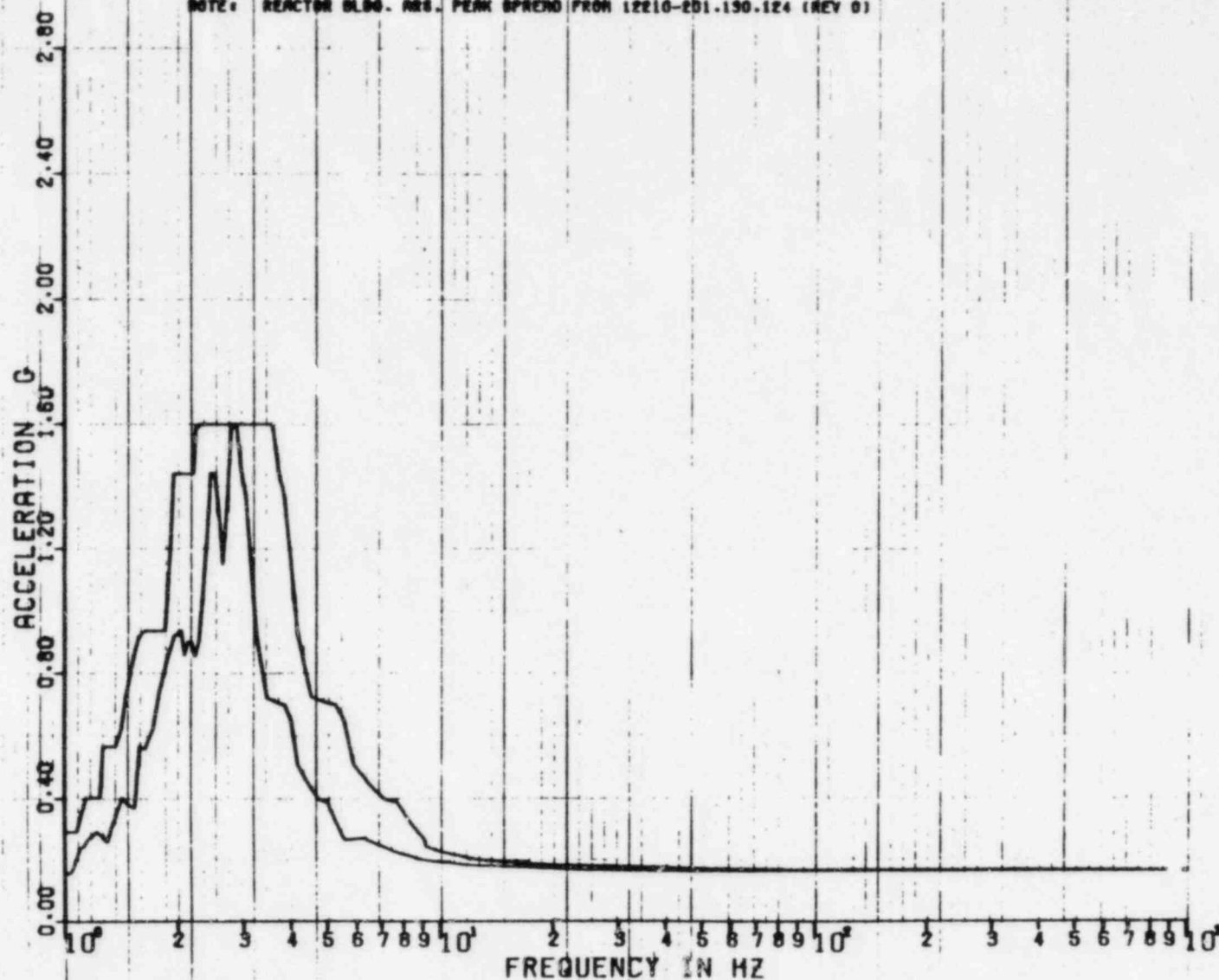
0.5 SSE

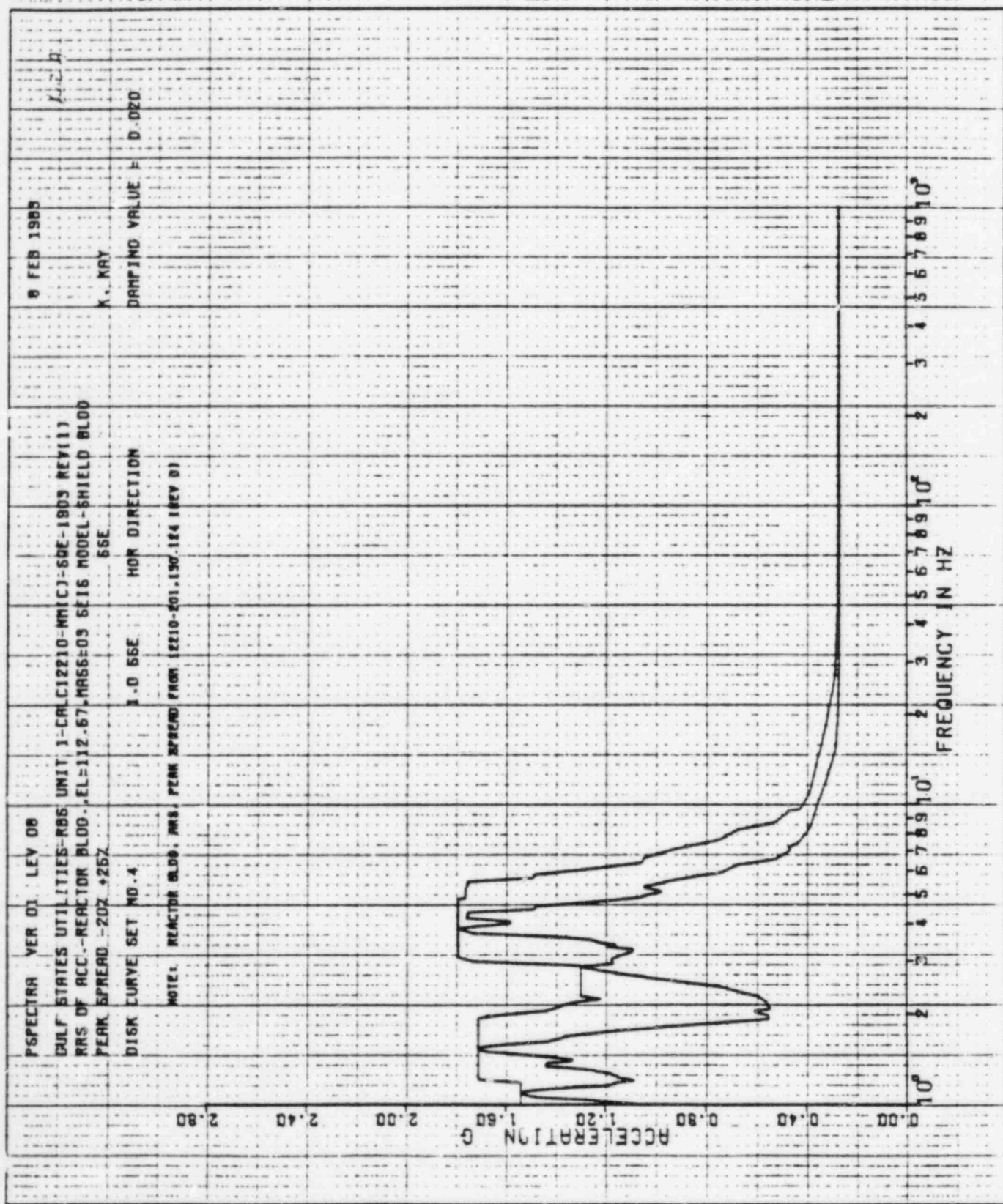
VER DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. ASS. PEAK SPREAD FROM 12210-231.190.124 (REV 0)





PSPECTRA VER 01 LEV 06

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MN1C1-60E-1903 REV11)
RBS OF ACC.-REACTOR BLDG., EL=112.67, MASS=03 6E16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25%
56E

DISK CURVE SET NO. 4

1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG, RBS, PEAK SPREAD FROM 12210-101.130.124 (REV 0)

8 FEB 1983

K. KRY

DAMPING VALUE = 0.020

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RBB UNIT 1-CALC12210-NR(C)-SSE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG, EL=112.67, MASS=03 SEIS MODEL-SHIELD BLDG,
 PEEK SPREAD=201, 125Z

DISK CURVE SET NO.4

1.0 SSE

HOR DIRECTION

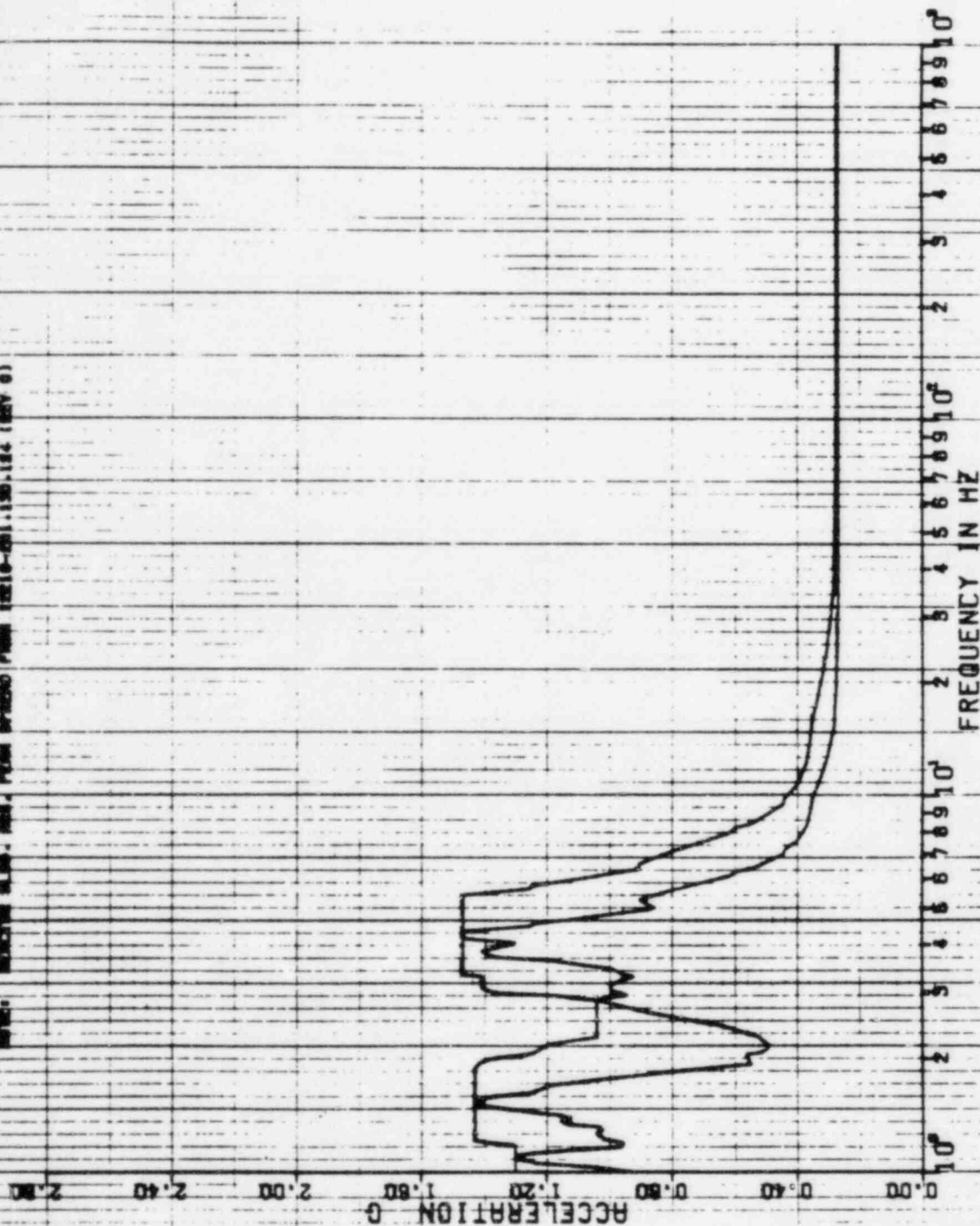
NOTE: REACTOR BLDG. MASS, PEAK SPREAD=100 (2010-201.120.124 (REV 0))

22 APR 1982

K.KAY

DAMPING VALUE = 0.030

3.584



PSPECTRA VER 01 LEV 07

22 APR 1982

35.4

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-SSE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.EL=112.67.MASS=03 SEIS MODEL-SHIELD BLDG.
PEAK SPREAD -20%+25% SSE

K.KAY

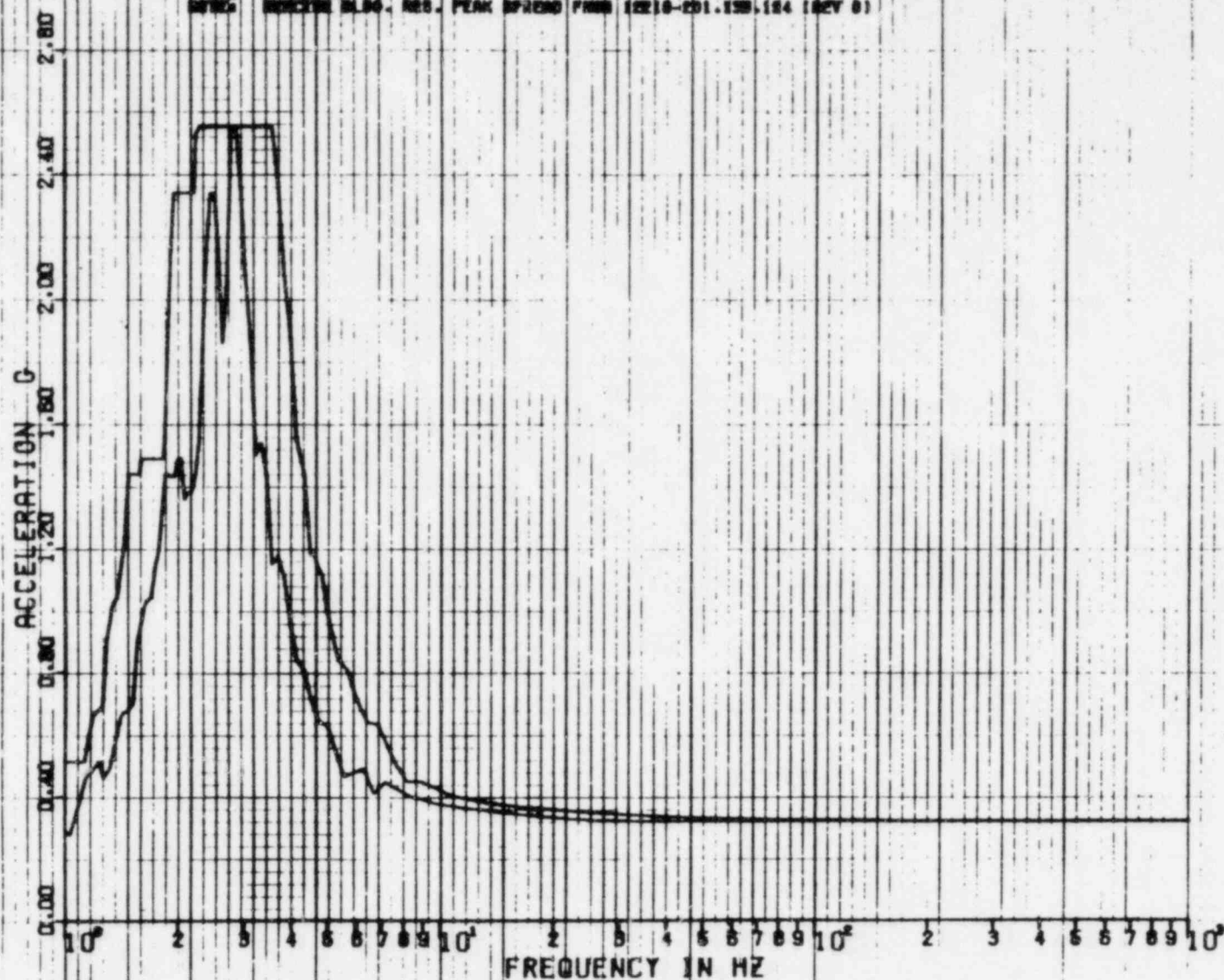
DISK CURVE SET NO.4

1.0 SSE

VER DIRECTION

DAMPING VALUE = 0.050

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-231.130.184 (REV 0)



REF 71

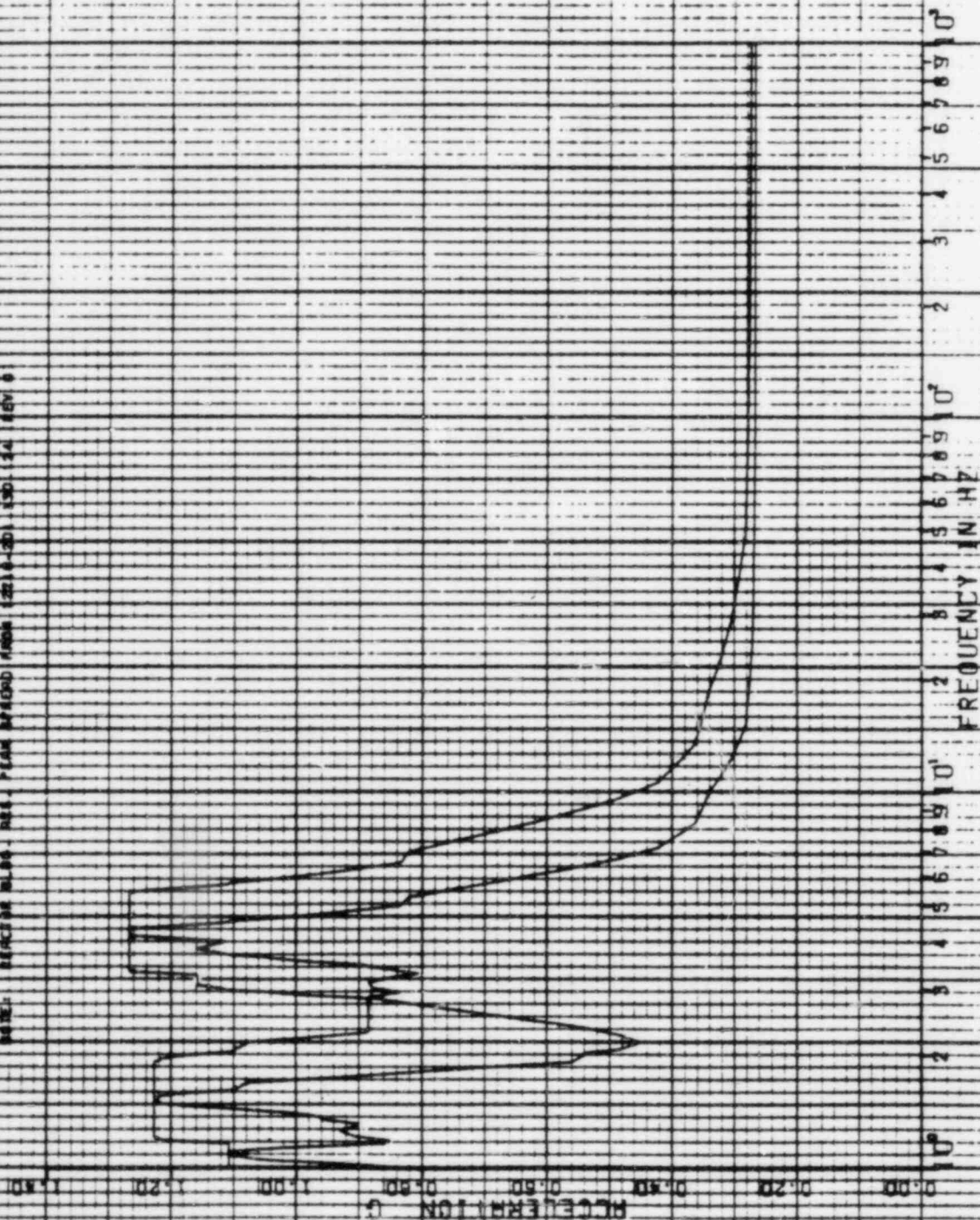
P-006

2000

key

1-05E HRR DIRECTION

DAMPING VALUE = 0.010

[illegible]

SPECTRA VER DB LEV D7

CULF STATE UTILITIES-RBS UNIT 1-CALCUTTA-UNIT 1-SOE-1908, REV D7
RBS OF ACC-REACTOR, BLOCK 1-12-57, MASS-DB SENS MODE-SHIELD BLOCK
PEAK SPREAD-20K-25K

DISK CURVE SET NO. 1

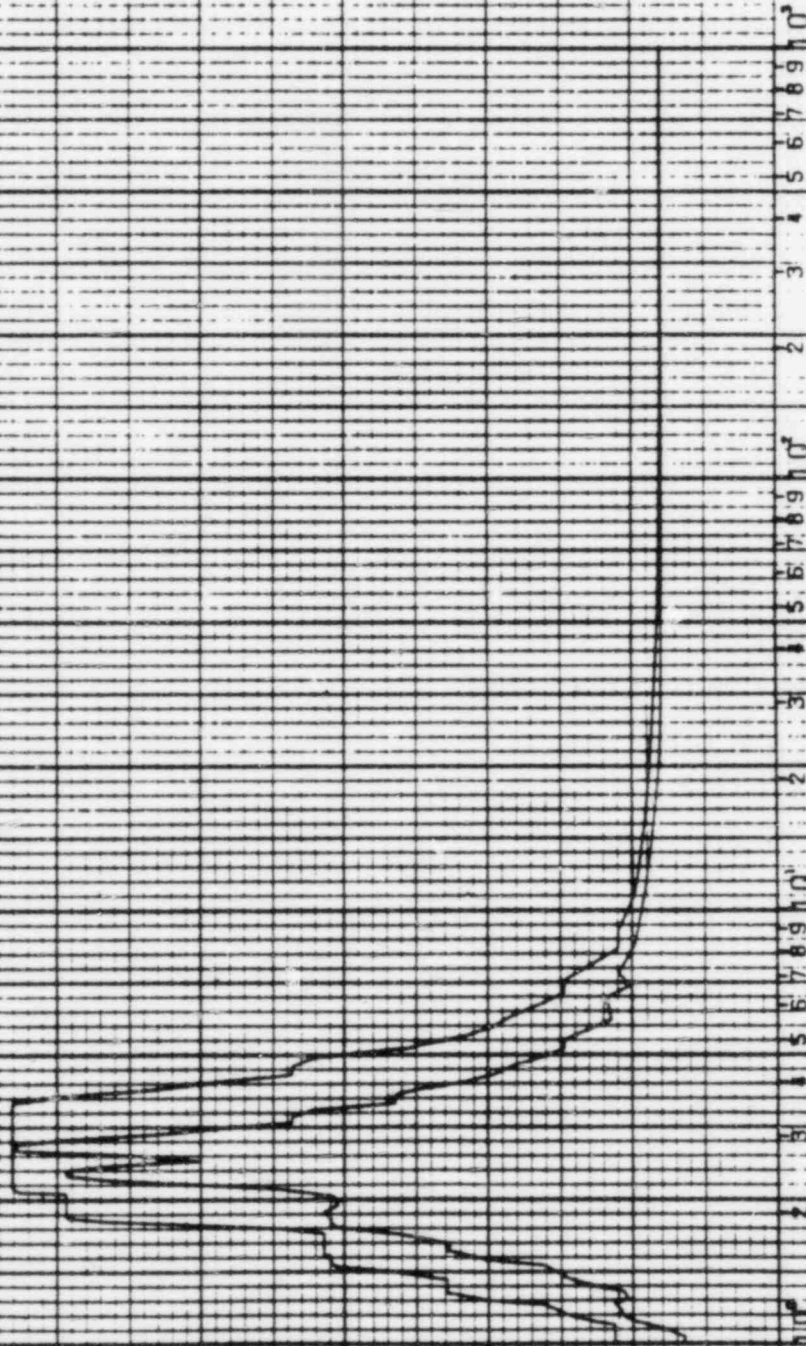
Q. D. 55E

VER. DIRECTION

DAMPING VALUE = 0.000

NOTE: REACTIVE MODE, PLS. PEAK SPREAD FROM 1210-201-150-184 MHz DB

ACCELERATION 0 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00



FREQUENCY IN HZ 10^0 10^1 10^2 10^3

22 APR 1982

40.5 A

PSPECTRA VER 01 LEV 07

22 APR 1982

2074

GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=132.99, MASS=04 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25Z
 OBE

DISK CURVE SET NO.5

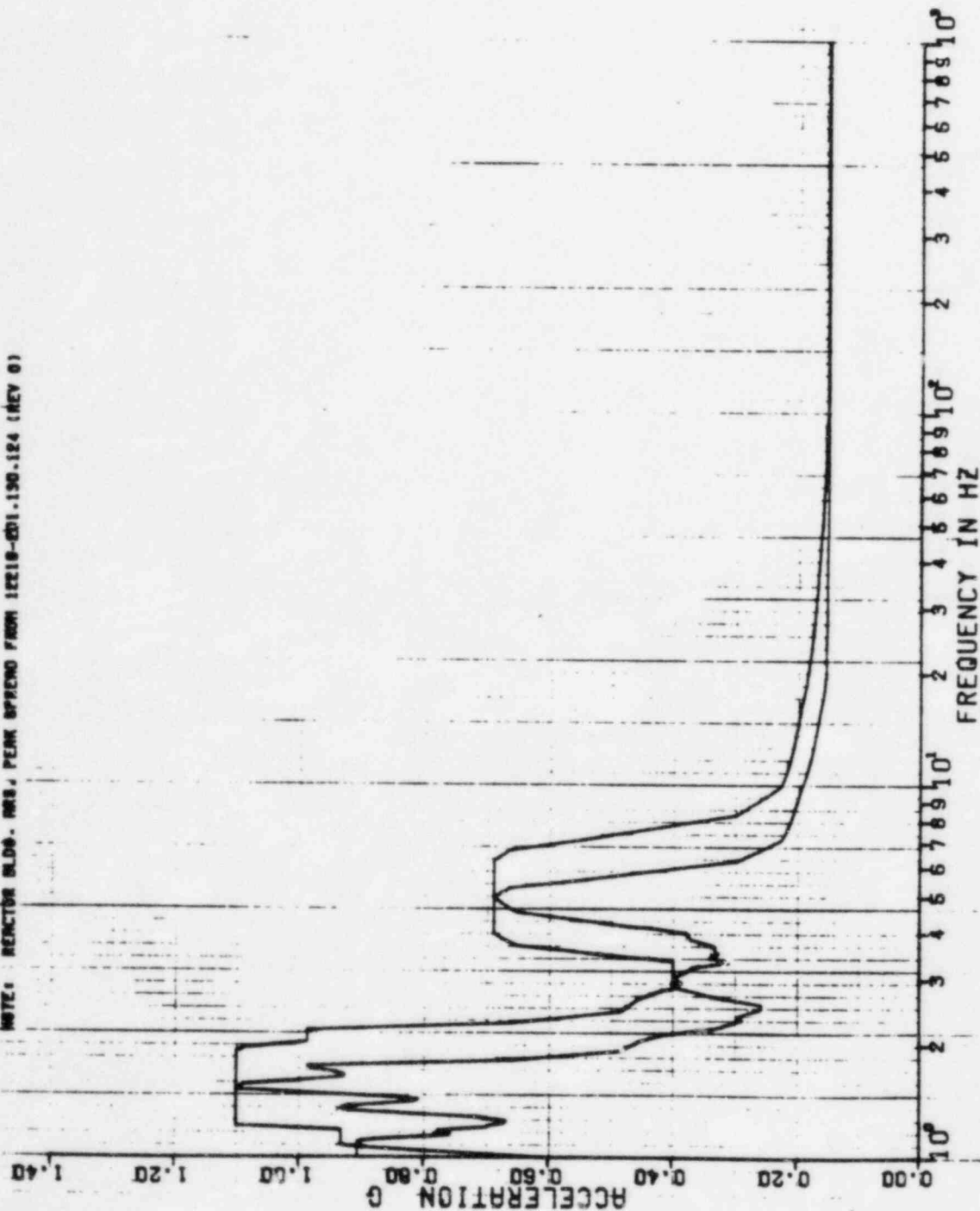
0.5 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. NR8, PEAK SPREAD FROM 12218-CD1.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

MULF STATE UTILITIES-R86 UNIT 1-CALC12210-MM(C)-S0E-1905 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=132.98.MASS=04 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

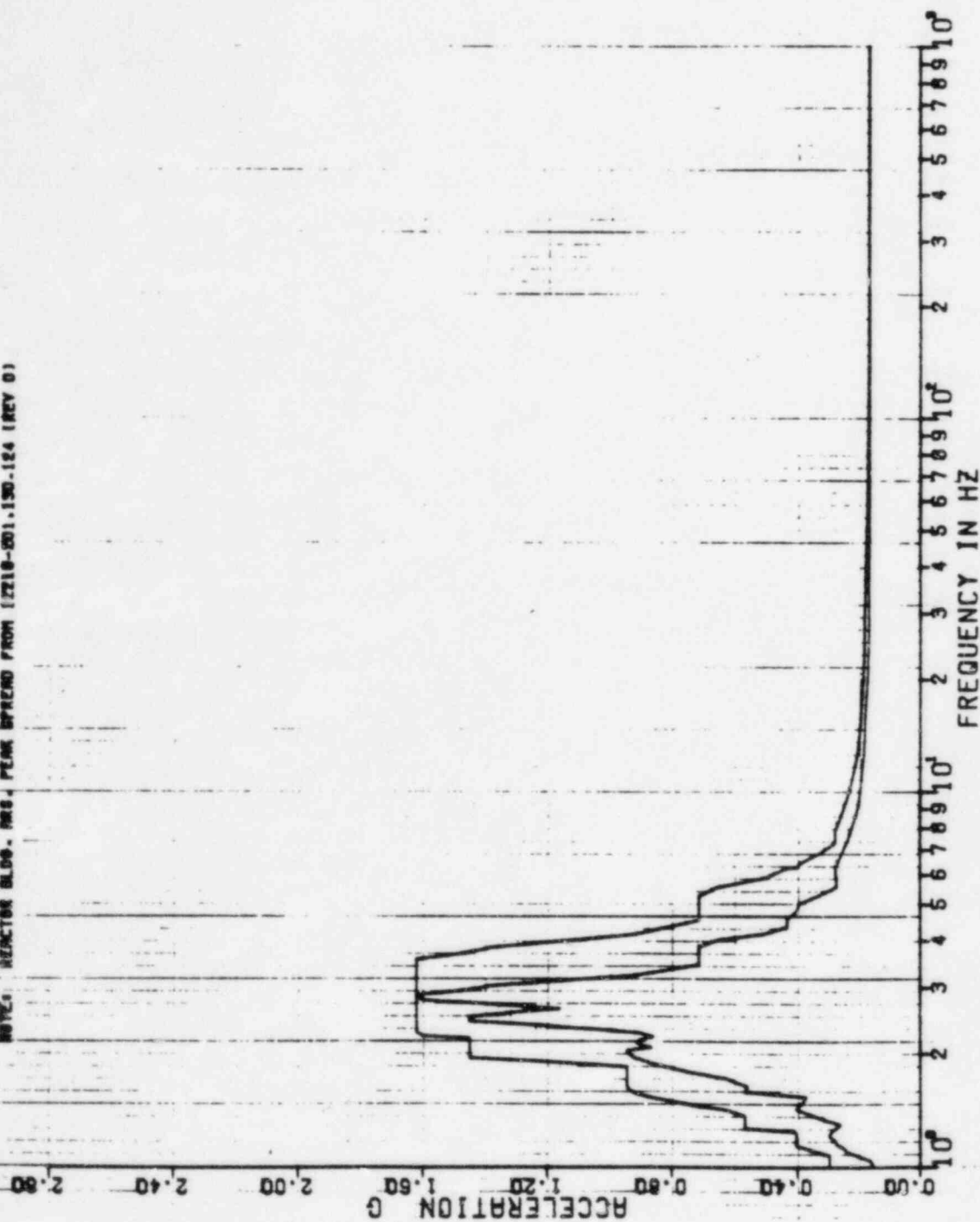
DISK CURVE SET NO.5

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM (2718-301.150-124 (REV 0))



PSPECTRA VER 01 LEV 06

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MH(C1)-SQE-1903 REV(11)
ARS OF ACC.-REACTOR BLDG., EL=132.99, MASS=04 SEIS MODEL-SHIELD BLDG
PEAK SPREAD -20% +25% SSE

DISK CURVE, SET NO. 6

1.0 SSE HOR DIRECTION

NOTE: REACTOR BLDG, ARS, PEAK SPREAD FROM 12210-101-130-124 (REV 01)

8 FEB 1983

K. KAY

DAMPING VALUE = 0.020

1045.9

2.80

2.40

2.00

1.60

1.20

0.80

0.40

0.00

ACCELERATION G

10⁰

2

3

4

5

6

7

8

9

10¹

2

3

4

5

6

7

8

9

10²

FREQUENCY IN HZ

PSPECTRA VER 03 LEV DB

GULF STATES UTILITIES-NBS UNIT 1-CALC12210-NM1C7-50E-1903 REV(1)
 RRS OF ACC.-REACTOR BLDG., EL-132.99, MASS=0.4 SEIS MODEL-SHIELD BLDG
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.6

NOTE: REACTOR BLDG., MASS. PEAK SPREAD FROM 12210-501.130.154 (REV B)

1.0 SSE

VER DIRECTION

SSE

DAMPING VALUE = 0.020

8 FEB 1983

K. MAY

60K A

3.50

3.00

2.50

2.00

1.50

1.00

0.50

0.00

ACCELERATION G

10⁰

2

3

4

5

6

7

8

9

10

10¹

2

3

4

5

6

7

8

9

10

FREQUENCY IN HZ

390 A

22 APR 1982

SPECTRA VER 01 LEV 07

SELF STATE UTILITIES-RBS UNIT 1-CALC12210-WMIC1-SQE-1903 REV(0)
 RBS OF ACC.-REACTOR BLDG.-EL-132.99-MASS-04 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

K.KAY

DAMPING VALUE = 0.030

1.0 SSE HOR DIRECTION

DISK CURVE SET NO.6

MASS BLDG. MASS. PERM SPREAD FROM 12210-031.132.134 (REV 0)

2.00

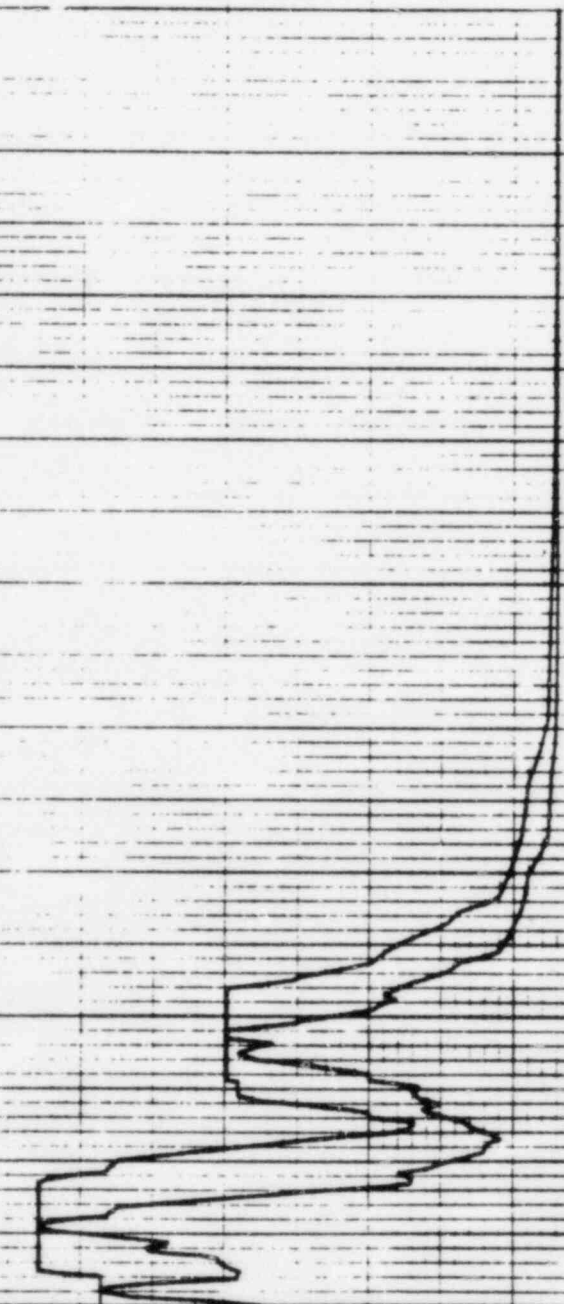
2.40

2.80

ACCELERATION

0.00

FREQUENCY IN HZ



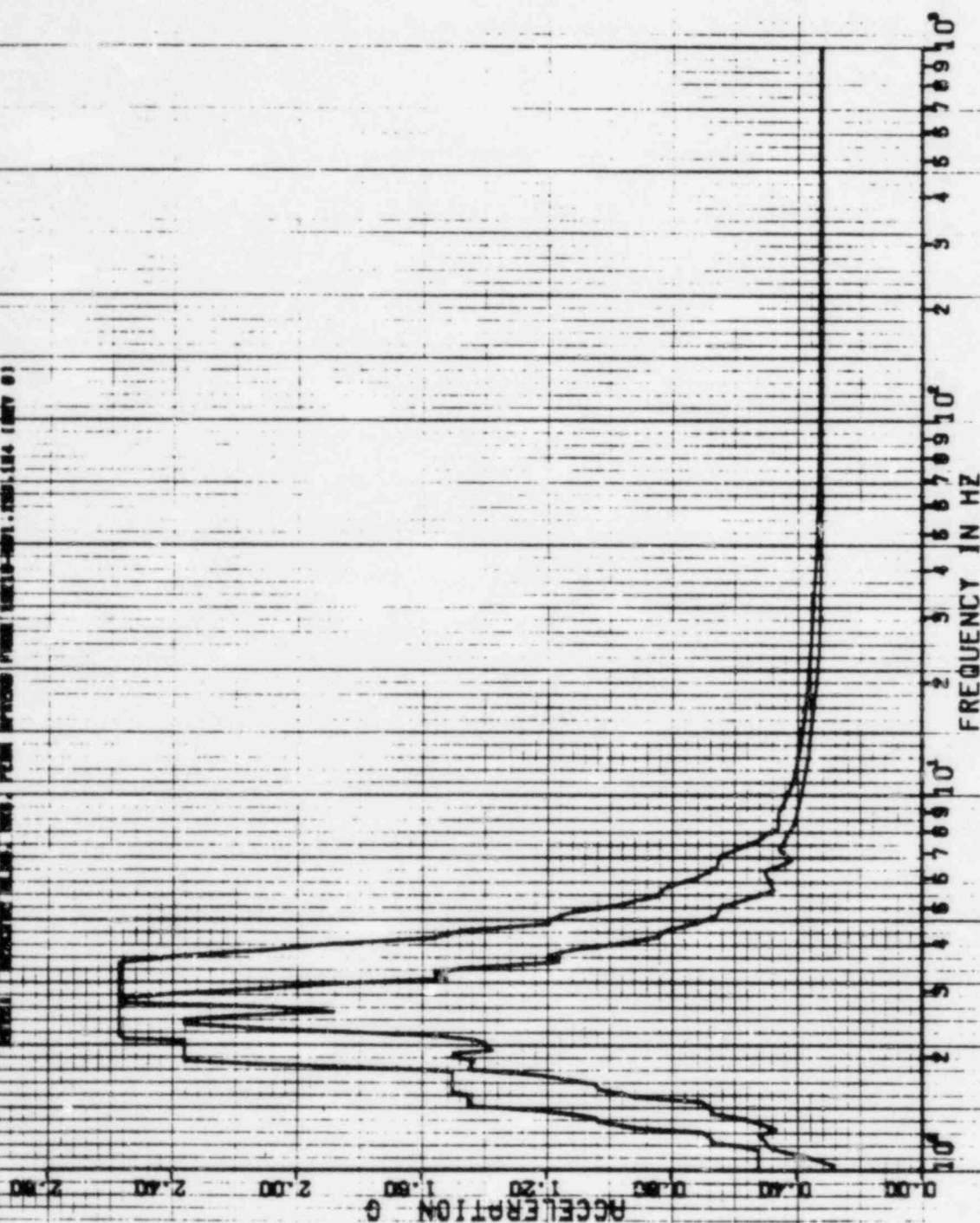
PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SSE-1903 REV(0)
 RRG OF ACC.-REACTOR BLDG-EL=132.99, MASS=04 6E16 NOVEL-SHIELD BLDG.
 PERK APPEND -201.125X

DISK CURVE SET NO.6

1.0 SSE VER DIRECTION

TOTAL MASSIVE MASS, NO. 7, PER APPEND FROM UNIT-NO.1, 132.124 (REV 0)



22 APR 1982

34.

K.KAY

DAMPING VALUE = 0.030

22 APR 1982

K. KRY

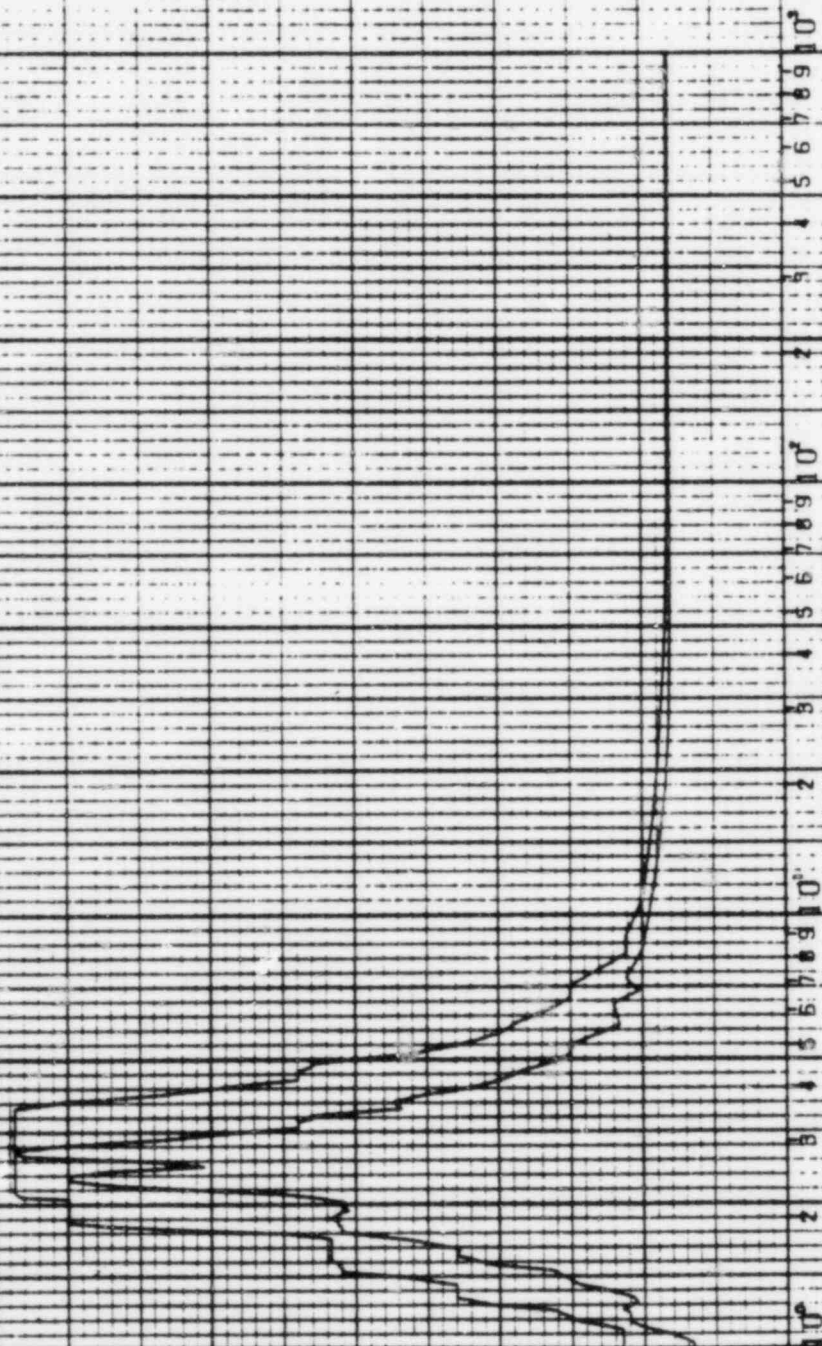
DAMPING VALUE = 0.040

PSECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC 12810-NHCL-50E-1908 REV 03
 RRS OF ACC-REACTOR BLOC-EL-132-89. MASS-04 SEIS-MODEL-SHIELD BLOC
 SSE
 PEAK SPREAD 20V-25V

DISK CURVE SET NO. 5
 1.0 SSE VER DIRECTION

NOTE: REACTOR BLOC. RRS. PEAK SPREAD /NOH (2215-201 (30.14 (NEW 5)

RECELEHATION 0
 0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80



0 2 4 6 8 10
 FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

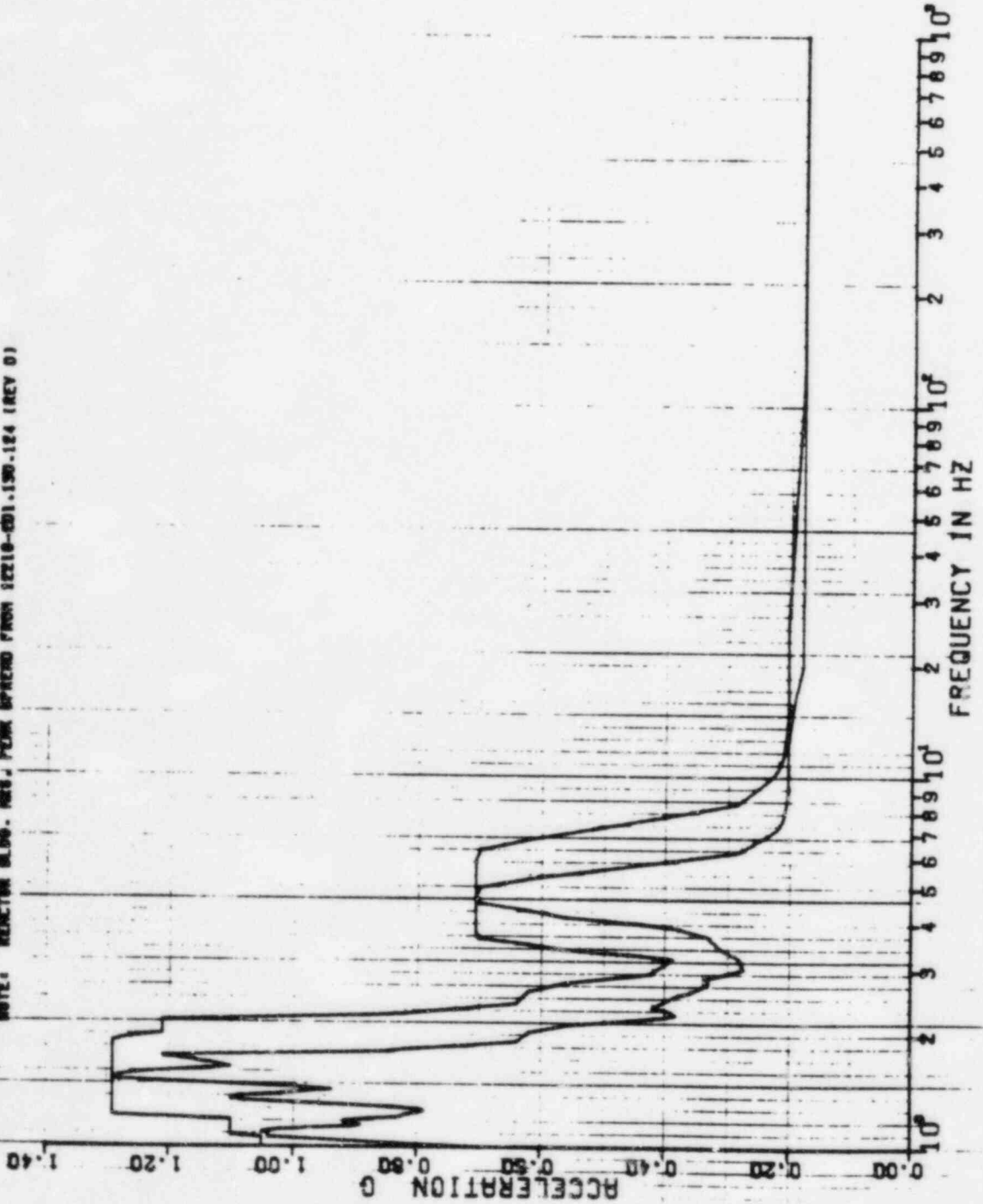
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-502-1903 REV(10)
RBS OF ACCL-REACTOR BLDG. EL=159.32, MASS=05 SE16 MODEL-6MFIELD BLDG.
PEAK SPREAD -20Z, +25Z

K-KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.7 0.5 SSE HOR DIRECTION

NOTE: REACTION BLDG. RBS, PEAK SPREAD FROM 12210-001.130-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

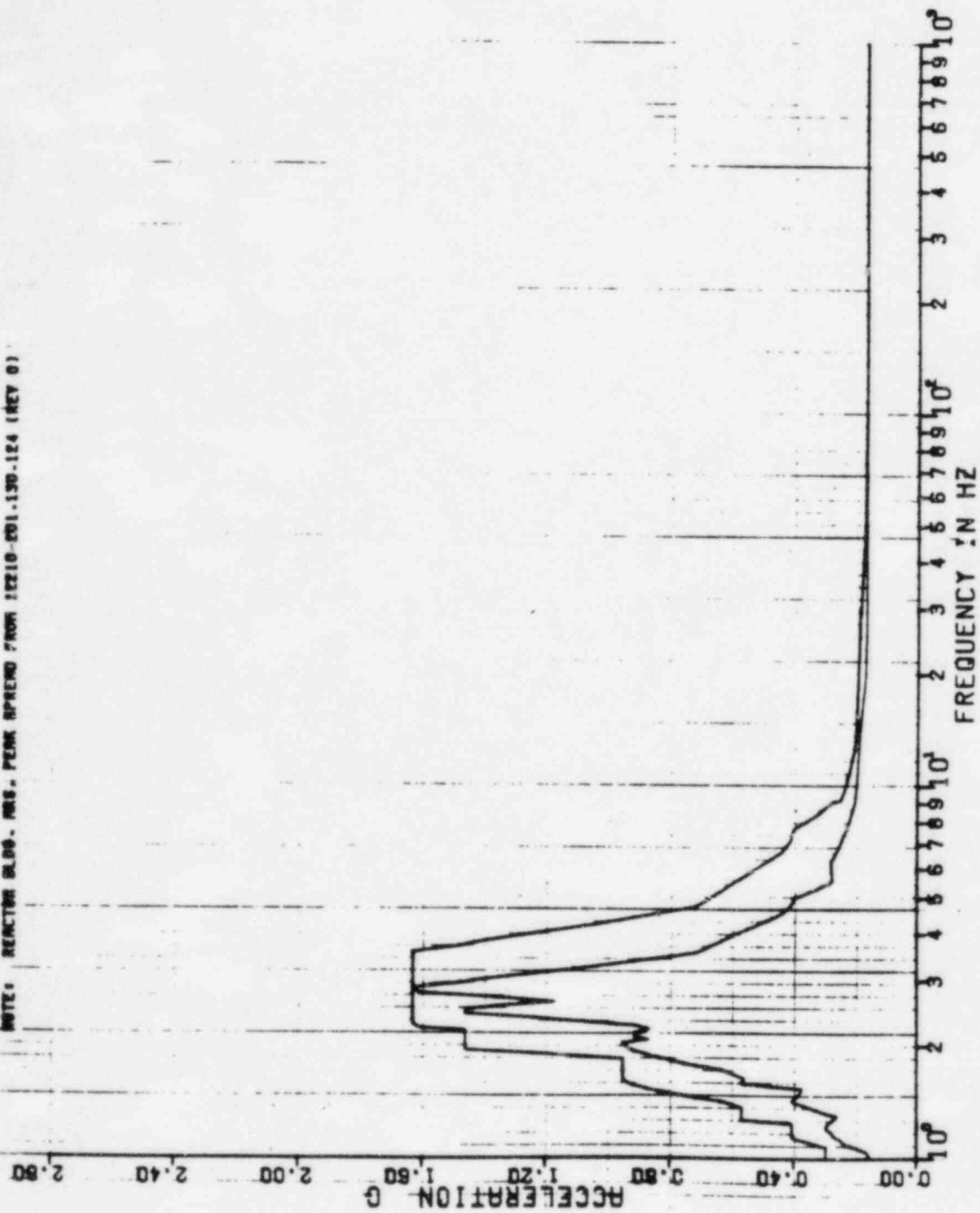
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-153.32.MASS=05 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%.+25%
 OBE

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.7 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RBS: UNIT 1-CALC12210-NM(C)-SOL-1903 REV(1)
ARS OF ACC.-REACTOR BLDG., FL-153.32, MASS-05 SE16 MODEL-6XIELD 8L00
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO. 8

1.0 56E

HOR DIRECTION

NOTE: REACTOR BLDG. ARS. PEAK SPREAD FROM 12210-201.150-124 1REV 01

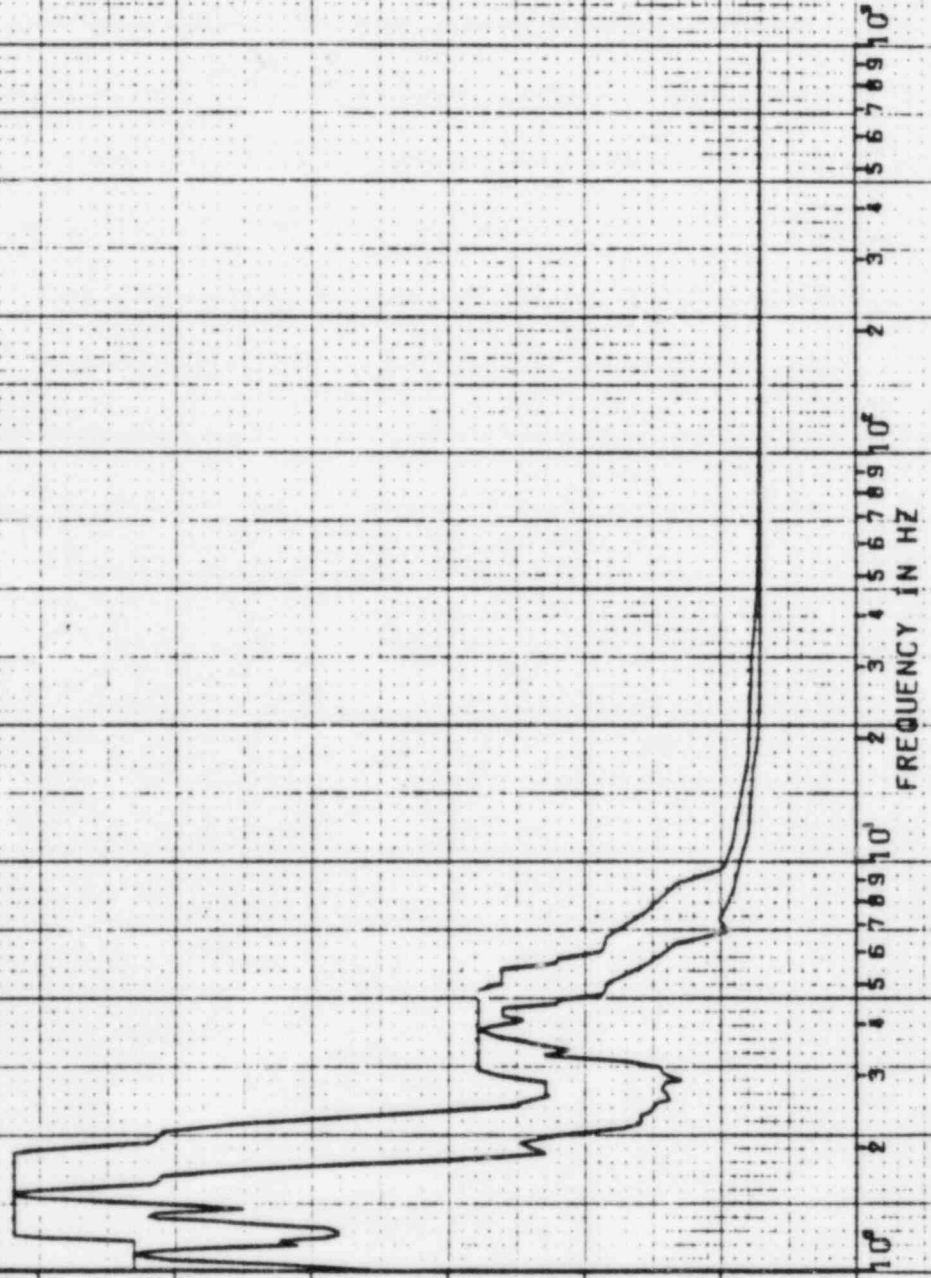
8 FEB 1983

K. KRY

DAMPING VALUE = 0.020

ACCELERATION G

10



FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RGS UNIT 1-CALC12210-MH(C)-60E-1903 REV(1)
RHS OF ACC.-REACTOR BLDG., EL-153.32, MASS-05 SE16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25%
DISK CURVE SET NO.0

NOTE: REACTOR BLDG, RMS

PEAK SPREAD FROM 12210-201.150-124 (REV 0)

1.0 GSE

VER DIRECTION

GSE

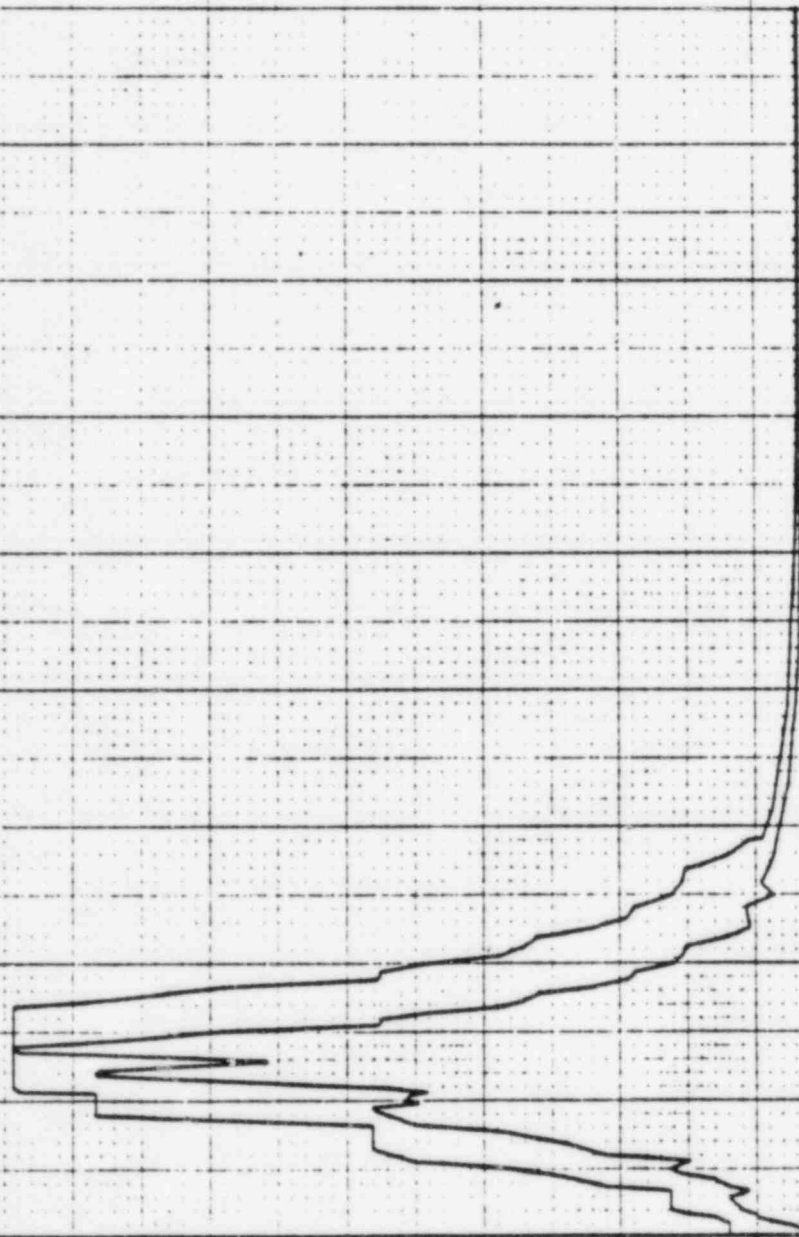
8 FEB 1983

K. MAY

DAMPING VALUE = 0.020

ACCELERATION G

FREQUENCY IN HZ

10⁰ 2 3 4 5 6 7 8 9 10¹ 2 3 4 5 6 7 8 9 10²

PSPECTR VER 01 LEV 07

DULF STATE UTILITIES-RDS UNIT 1-CALC12210-NH(C)-S0E-1903 REV(0)
 R28 OF RCL-REACTOR BLDG-EL-153.32-RAS5-05 SEIS MODEL-SHIELD BLDG
 PERK SP22RD -P0K.125X

DISK CURVE SET NO.8

1-D SSE

HOR DIRECTION

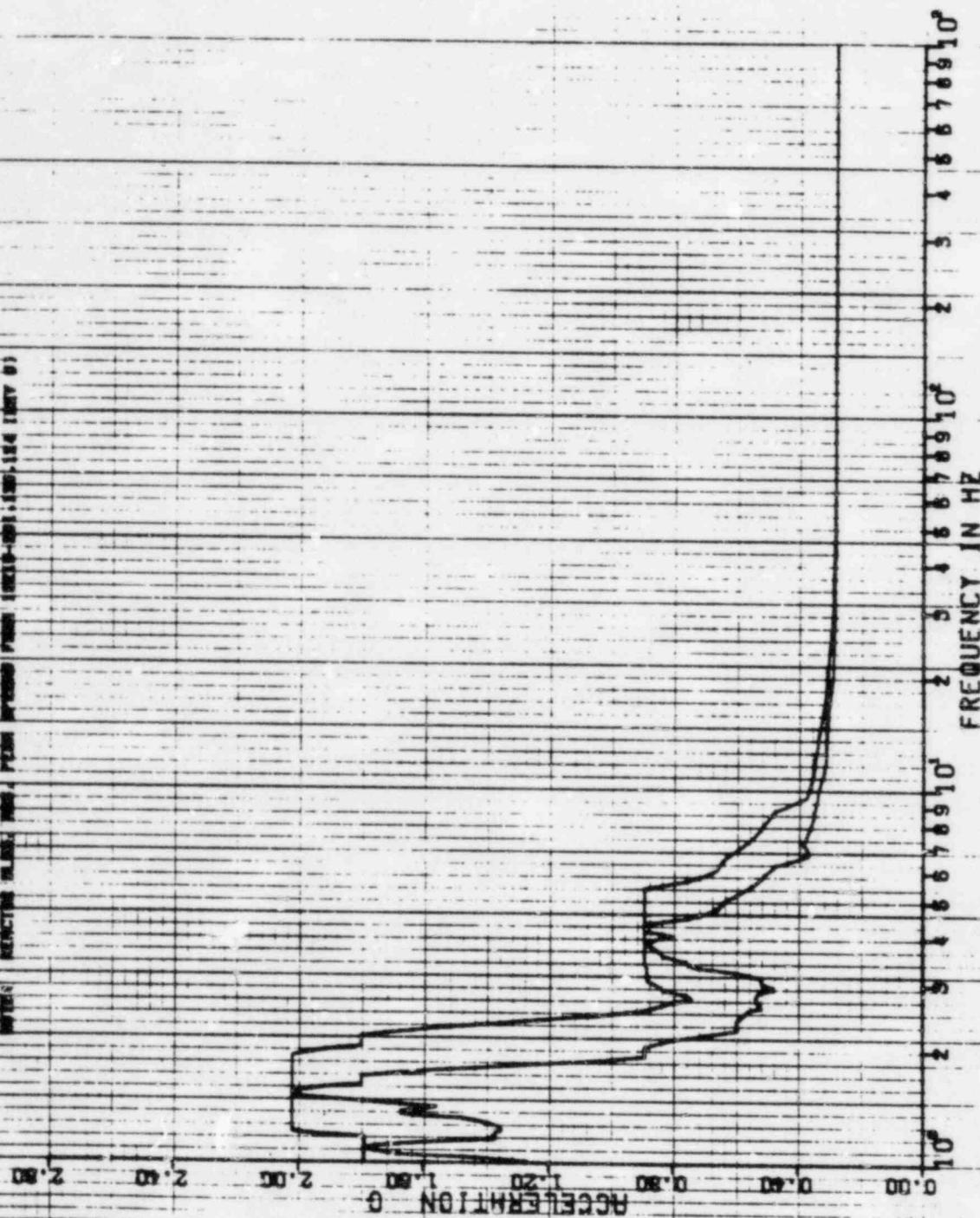
WYER: REACTOR BLDG. NO.1 PERK SP22RD P0K.125X (SEIS-M01.153.154 INVT 0)

22 APR 1982

396A

K.KAY

DAMPING VALUE = 0.030



PSPECTRA VER 01 LEV 07

OUTL STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-60E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-163.32.MASS-05 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.8

1.0 SSE

VER DIRECTION

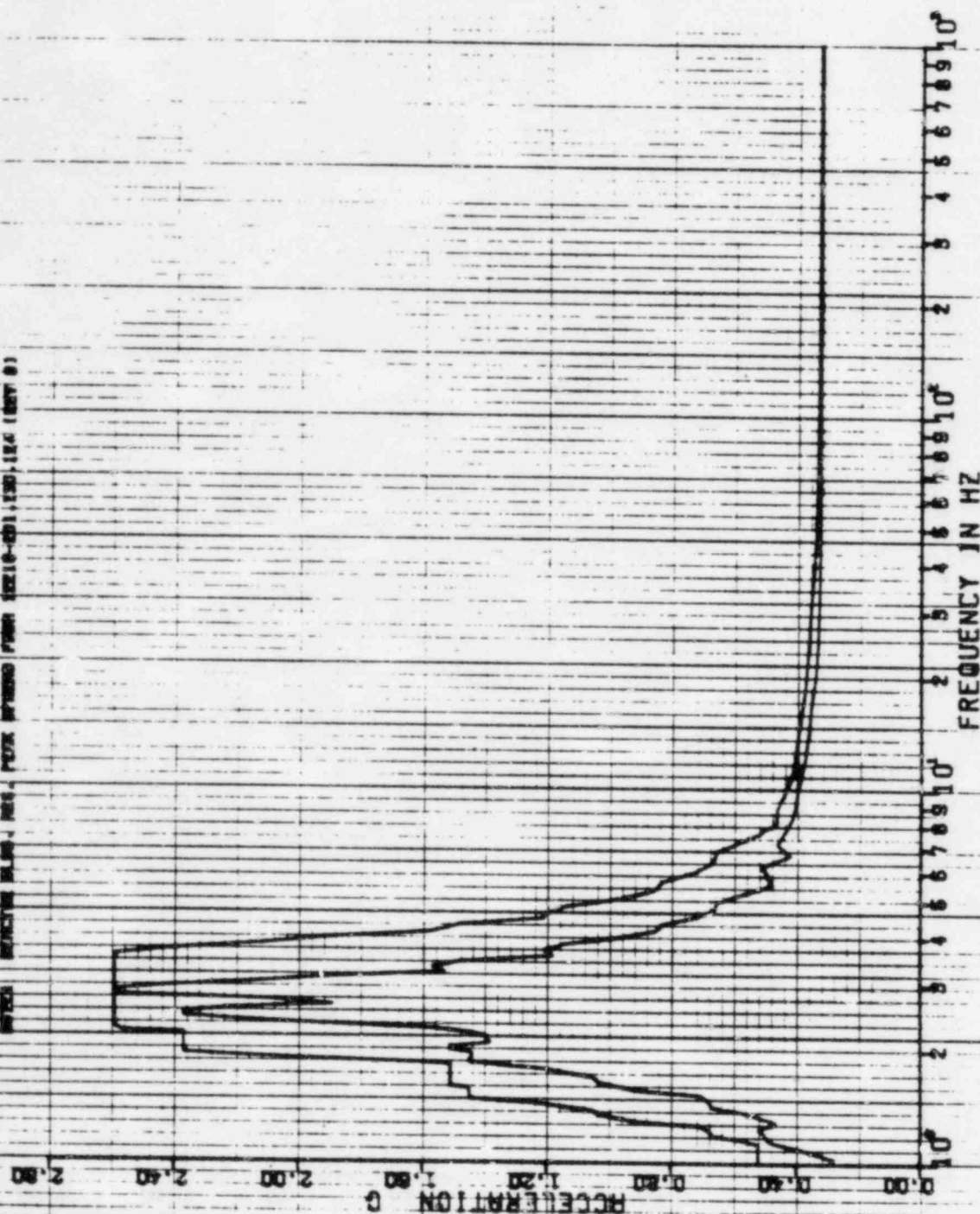
NOTES: REACTOR BLDG. HAS PEAK SPREAD FROM 10% TO 15% (SEE 8)

22 APR 1982

K.KAY

DAMPING VALUE = 0.080

5.34



SPECTRA VER 01 LEV 07

CULF STATE UTILITIES-RBS UNIT 1-CALC 22.0-UNIT 1-SOE-903 REV 01
RPS OF ACC-REACTOR BLOC EL-153.92 MASS-05 SETS MODEL-SHIELD BLOC
PEAK SPREAD 1.20V.05V

CRSK CURVE SET MD18

1.0 SSE

HDR DIRECTION

NAME: REACTOR BLOC RBS PEAK SPREAD FROM 122.0-201.430.14 REV 01

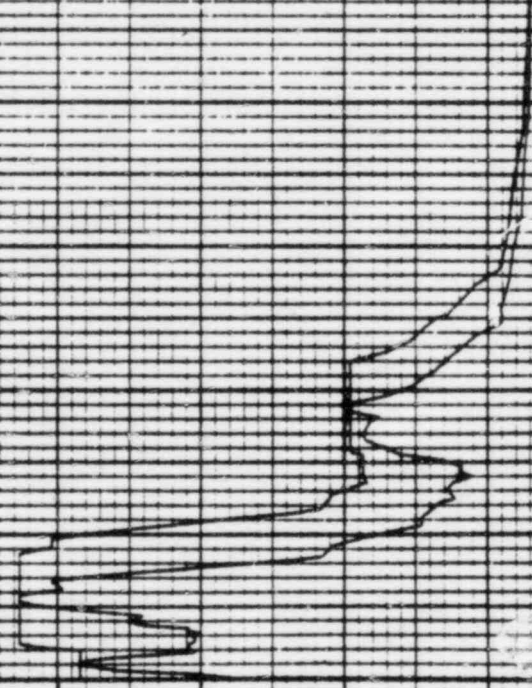
22 APR 1982

K.KAY

DAMPING VALUE = 0.000

ACCELERATION G

FREQUENCY IN HZ



SPECTRA VER DI LEV OP

CULF STATE UTILITIES RBS UNIT 1 - CALC 1870 - UNIT 1 - 500 KEV (6)
 OPS OF ACC. REACTOR BLOC. EL = 159.92. MASS 05 SE 3. MODEL SHELLO 010C
 PEAK SPREAD = 0.02. 1.55

DISK CURVE SET NO. 3

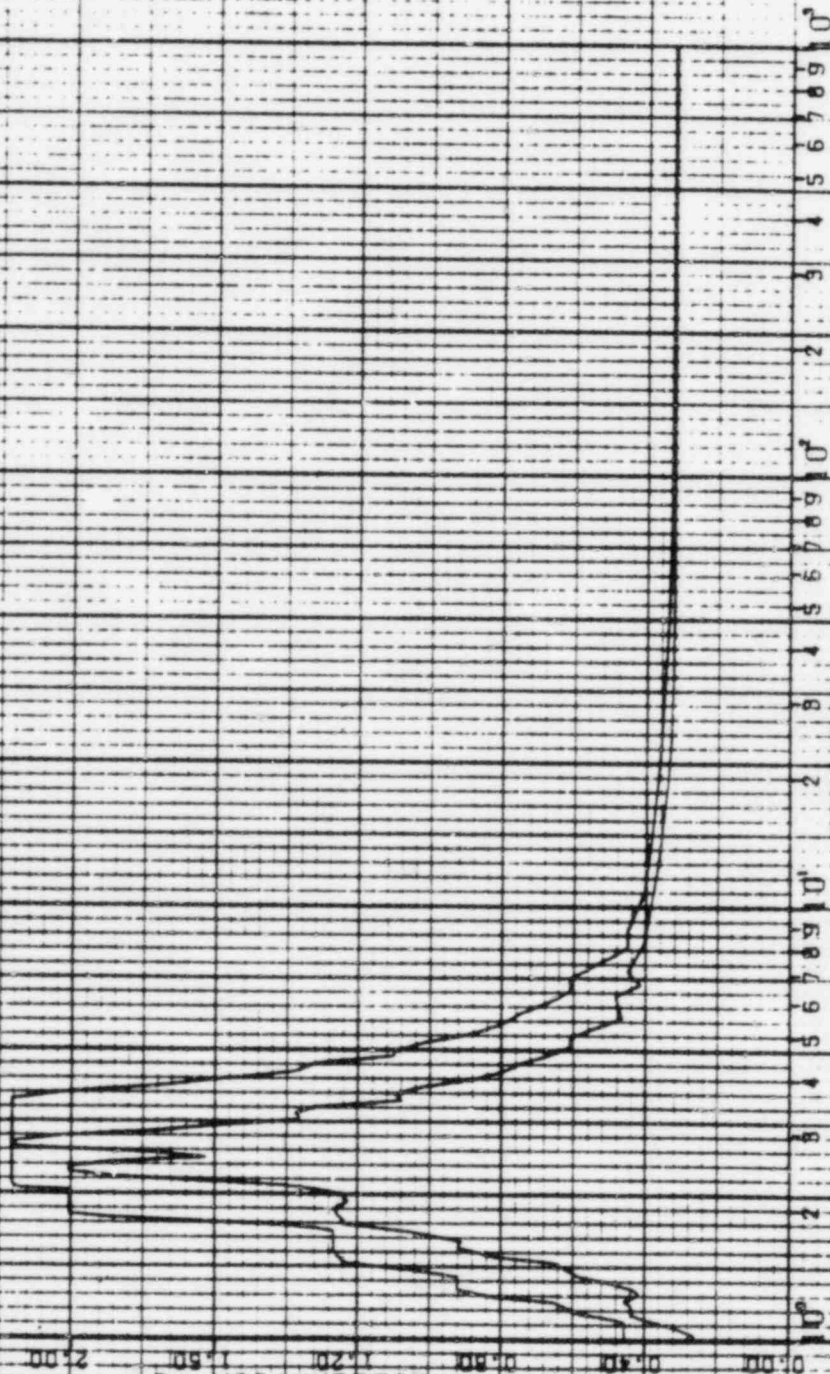
1.0.55E VER DIRECTION

NOTE: REACTOR ALSO. RBS. PLAN SP4000 / MOD 10210-201. 130. 14. 160V 61

DRAWING VALUE = 0.000

ACCELERATION G

FREQUENCY IN HZ



22 APR 1982

K. KAY

109A

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SQE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG.EL=179.65.MASS=06 SEIS MODEL-SHIELD BLDG.
PEAK SPREAD -20%+25% OBE

K.KAY

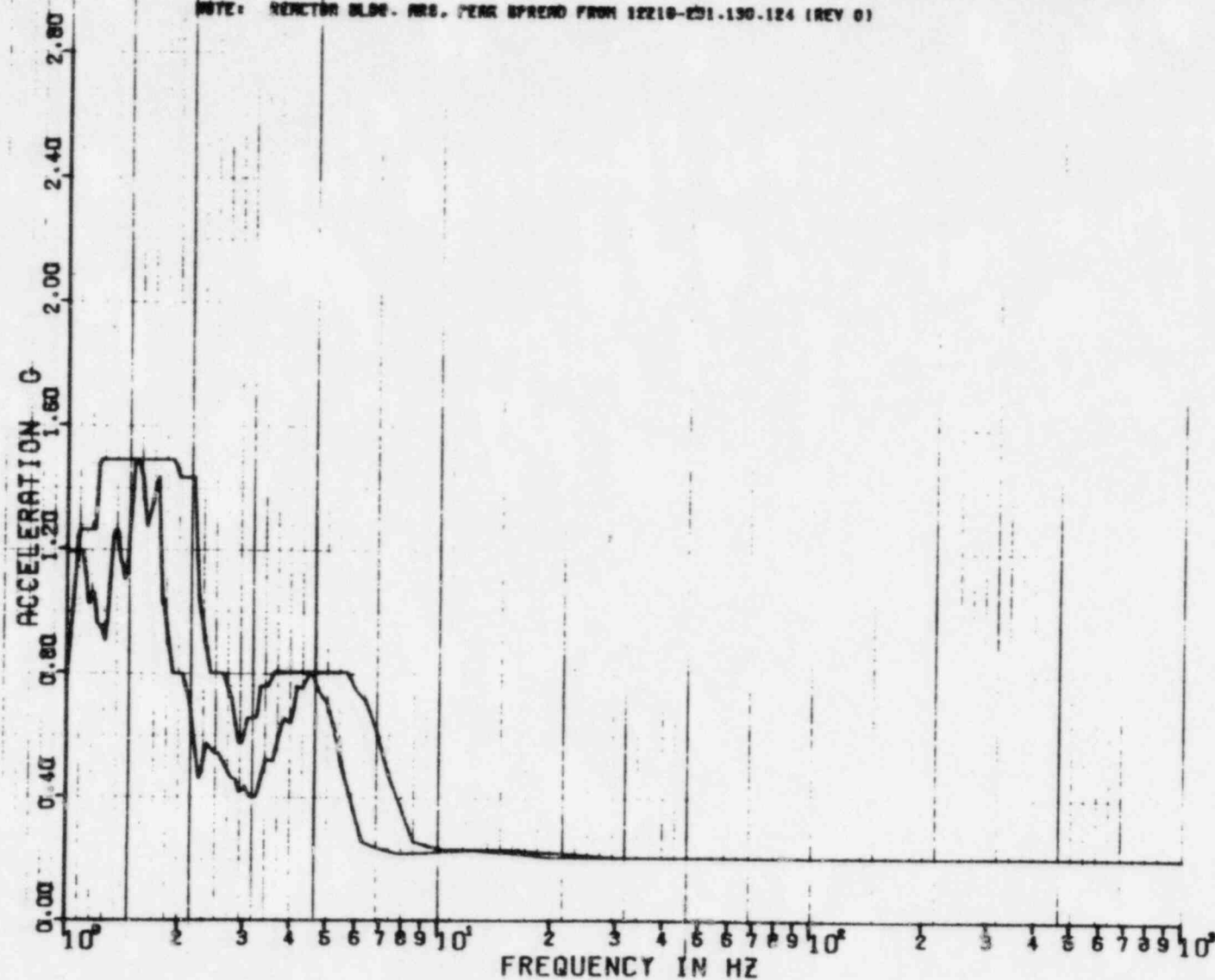
DISK CURVE SET NO.9

0.5 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-231.130.124 (REV 0)



REF 74

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-SQE-1903 REV(0)
 RBS OF ACCL-REACTOR BLDG. EL=73.66, MASS=05 SE16 MODEL-SHIELD BLDG.
 PEAK SPREAD -20Z.+25Z
 OBE

K.KAY

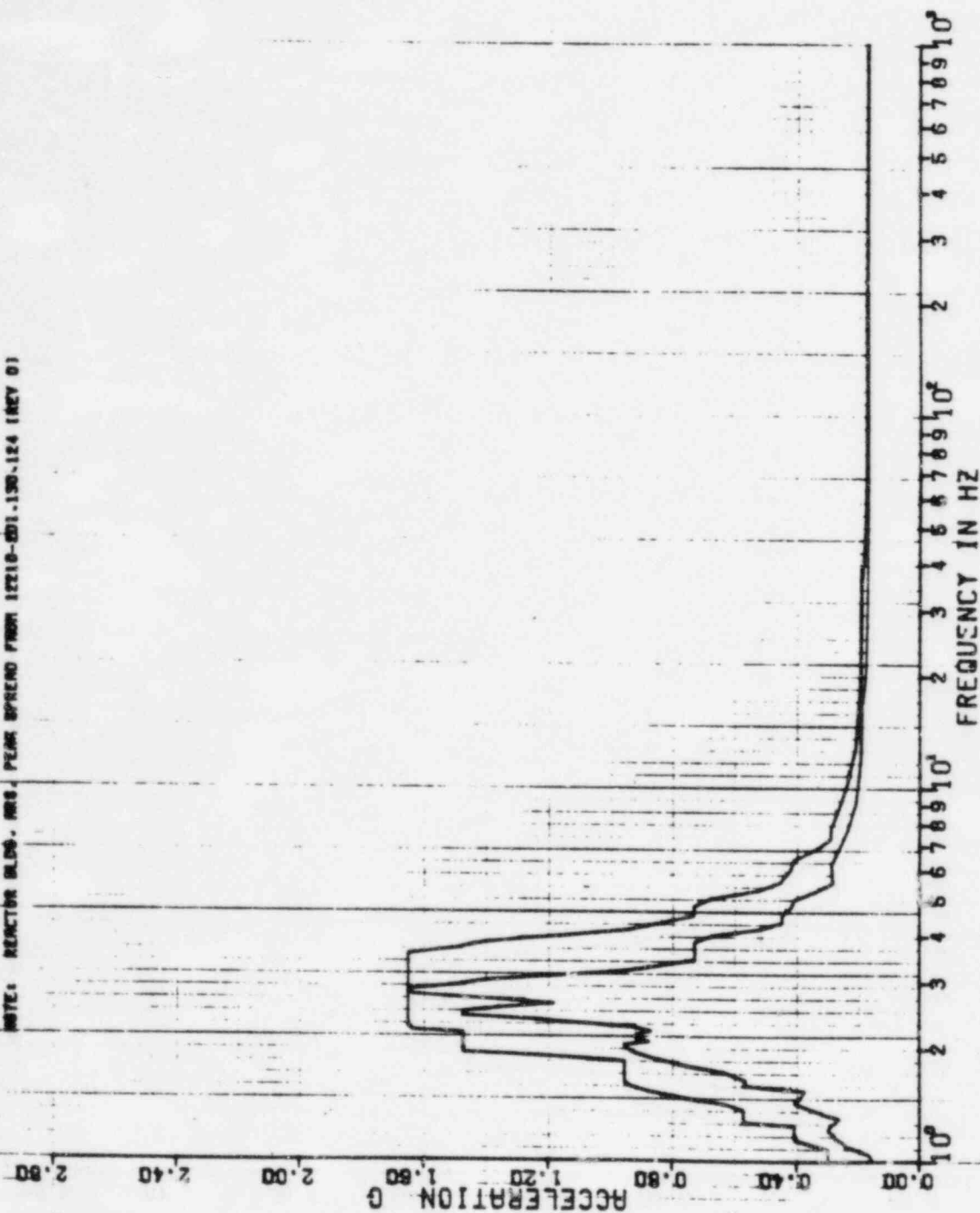
DAMPING VALUE = 0.020

VER DIRECTION

0.5 SSE

DISK CURVE SET NO.9

NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM 12210-001.150-124 (REV 0)



PSPECRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MHIC1-SDE-1903 REV117
RRS OF ACC.-REACTOR BLDG.-EL=173.65, MASS=06 SE16 MODEL-SHIEL™ BLDG
PEAK SPREAD -20% +25%

DISK CURVE SET NO.10

1.0 GSE HOR DIRECTION

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-101.130-124 (REV 0)

8 FEB 1983

K. MAY

DAMPING VALUE = 0.020

3.50

3.00

2.50

2.00

1.50

1.00

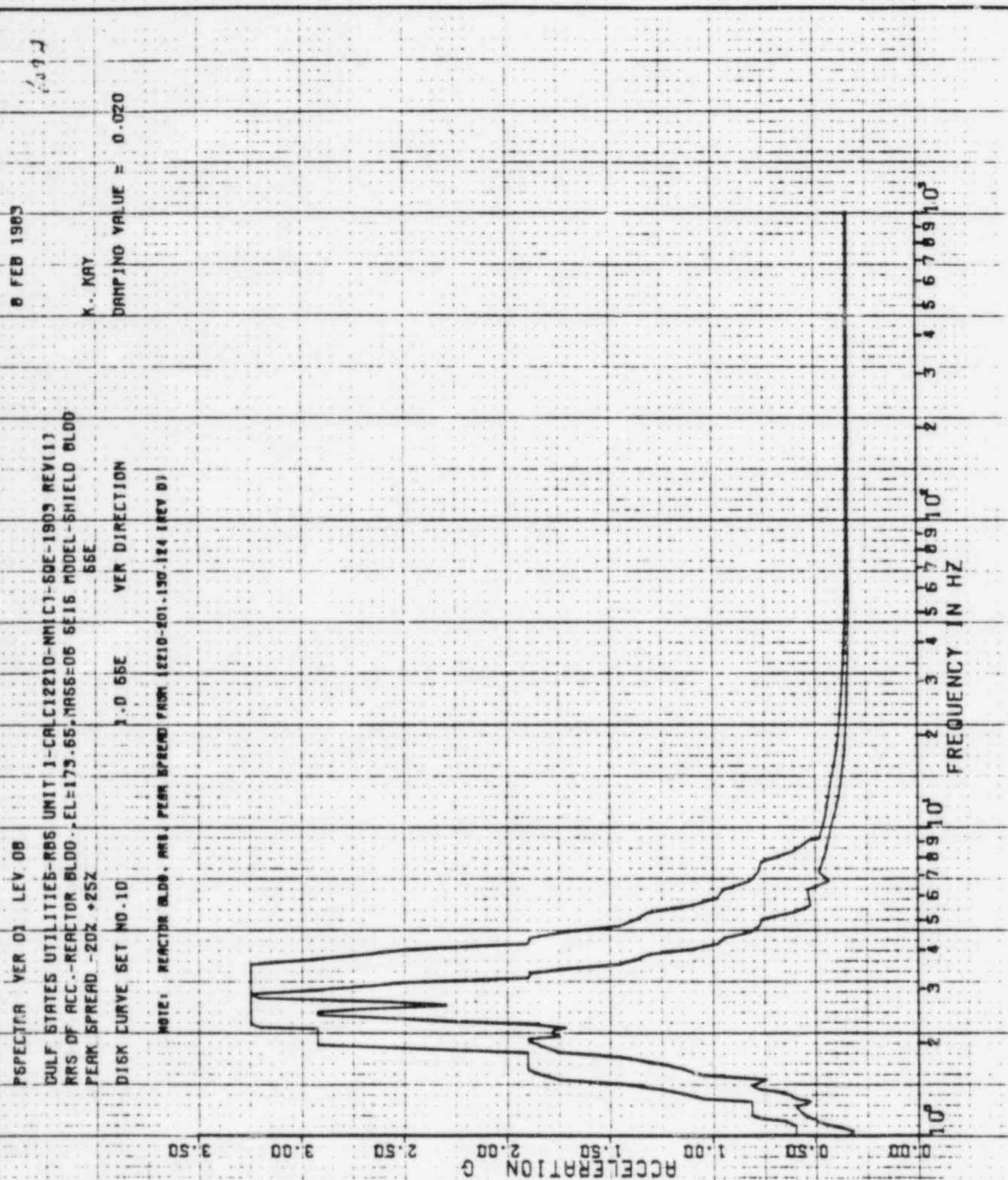
0.50

0.00

ACCELERATION G

10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸ 10⁹ 10¹⁰

FREQUENCY IN HZ



31

22 APR 1982

PEPETER VER 01 LEV 07

SULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-SSE-1903 REV(0)
 RRS OF REC.-REACTOR BLDG-EL=179.65, MASS=06 FT'S MODEL-SHIELD BLDG.
 PEAK SPREAD -20Z,+25Z

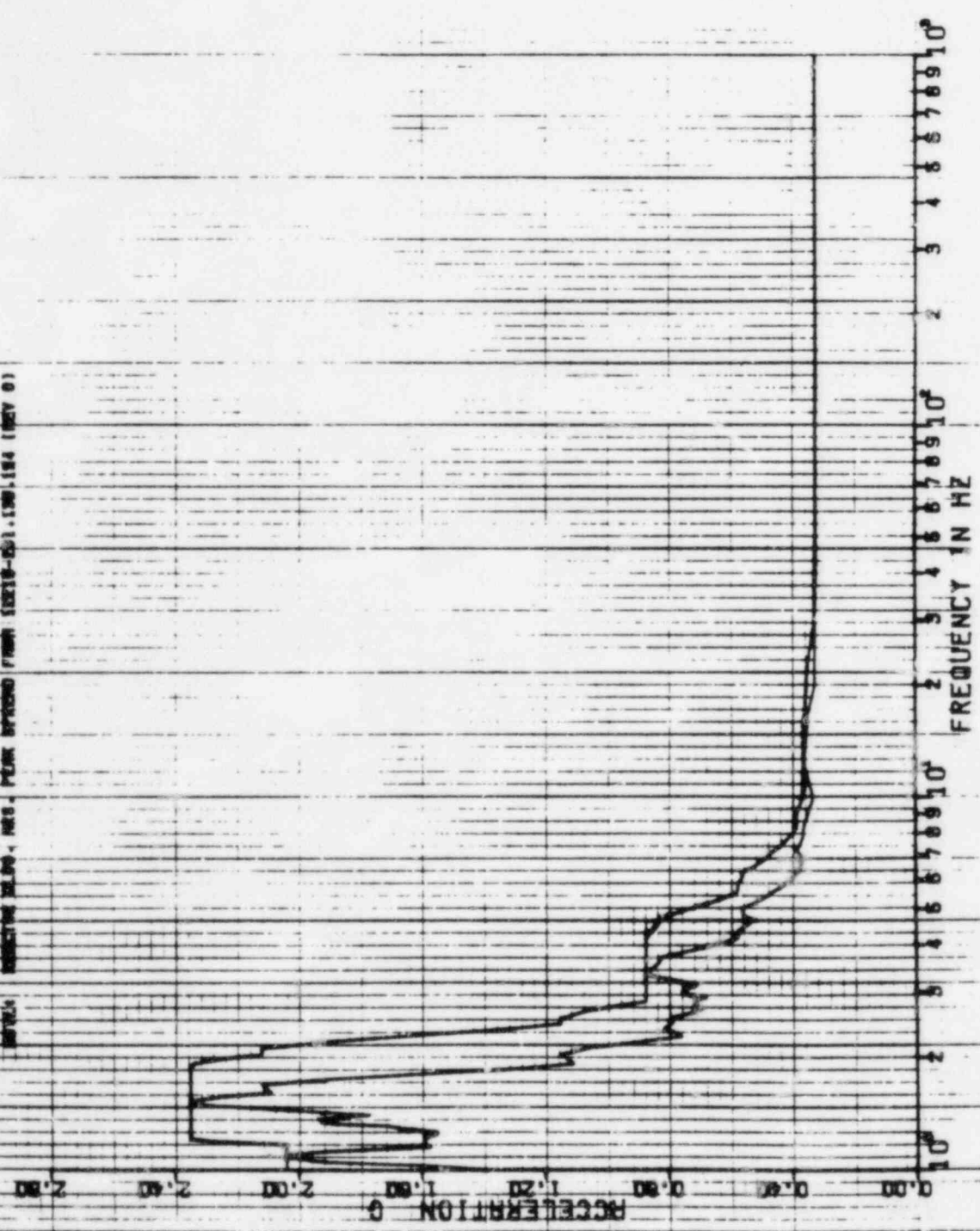
K-KAY

DAMPING VALUE = 0.050

1.0 SSE HOR DIRECTION

DISK CURVE SET NO.10

NOTE: INVERTED BLDG. NEG. PEAK SPREAD FROM 10Z10-25Z.194 (REV 0)



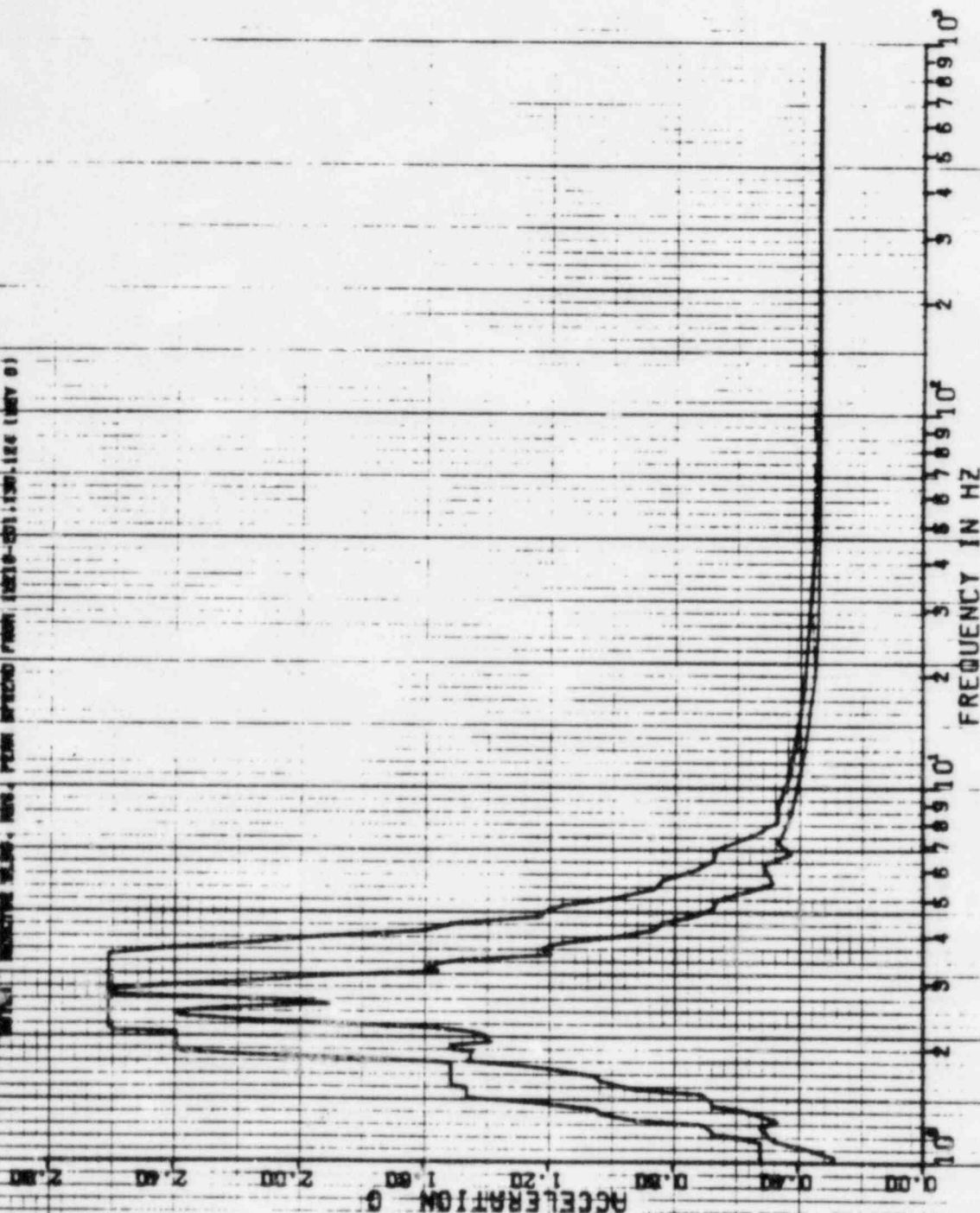
22 APR 1982

345A

K. KAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07
 DULY STATE UTILITIES-RBB UNIT 1-CALC12210-WHIC)-80E-1903 REV(0)
 RRS OF REC.-REACTOR BLDG.-EL=179.65.MASS-06 SEIS MODEL-SHIELD BLDG.
 PERS SPREAD -20ZL+25Z
 DISK CURVE SET NO.10
 1.0 SSE VER DIRECTION
 TOTAL MEASURED MASS, MASS PERM SPREAD FROM 1218-1211.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

CULF STATE UTILITIES-RBS UNIT 1-CALC 122 01001-1-501-1903 REV 01
 RES OF ACC-REACTOR ULOG EL-173.65, MASS-06 SET'S MODEL-SMILEO BLOC
 PEAK SPREAD 1.20V, 1.25V

DISK CURVE SET NO. 10

1.0 SSE HOR DIRECTION

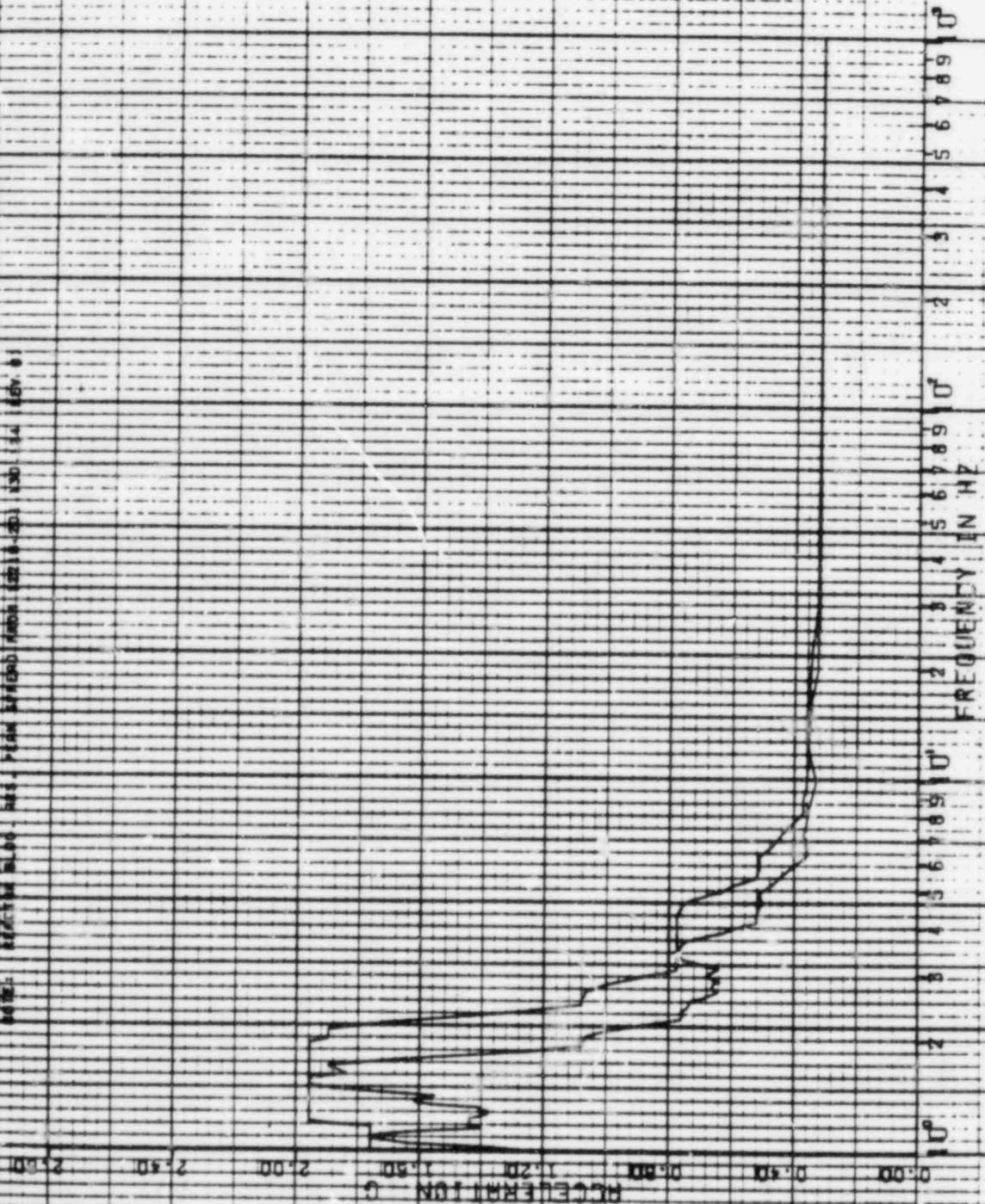
NOTE: REACTOR ULOG HAS PEAK SPREAD FROM (2016-201) 130 (34) 16V 0

DAMPING VALUE = 0.010

R-KAY

22 APR 1983

118A



PSPECTR VER 01 LEV 07

CULT STATE UTILITIES-RBS UNIT - CALC 22 DUNIT + SGT 1903 REV 01
 RPS OF ACC + REACTOR BLOC CL 73.65 MASS=06 SE S MODEL + SHIELD BLOC
 PEAK SPREAD 1200.1252

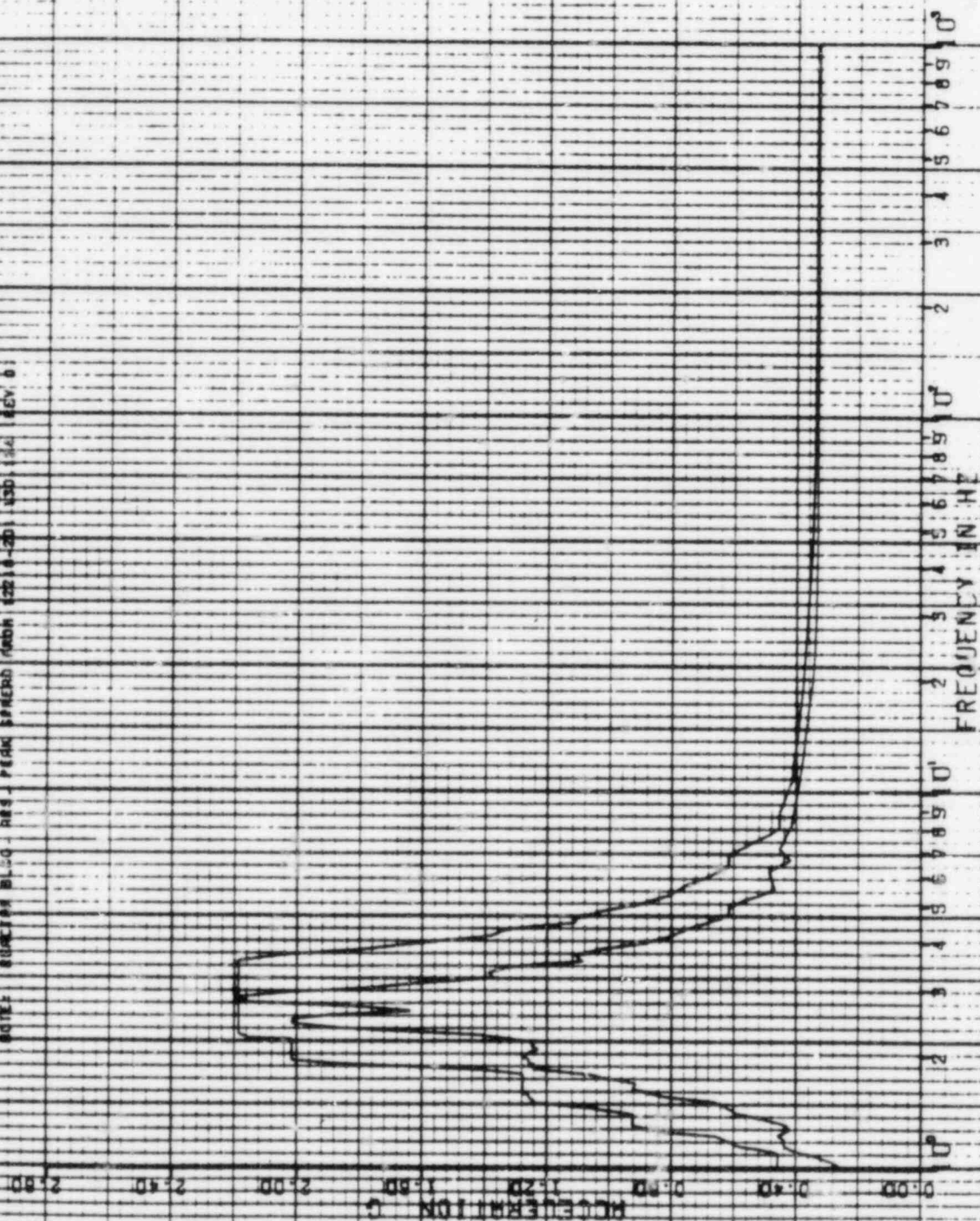
DISK CURVE SET NO. 10

1.0 SSE

VER DIRECTION

DAMPING VALUE = 0.010

NOTE: REACTOR BLOC RES - PEAK SPREAD FROM 1221.6-1201.1252 120.46V 0



22 APR 1982

K. KAY

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RGS UNIT 1-CALC(12210-Nm(C)-50E-1903 REV(0)
 RMS OF ACC.-REACTOR BLOO.EL=193.98.MASS=07 SEIS MODEL-SHIELD BLOO.
 PEAK SPREAD -20%+25Z

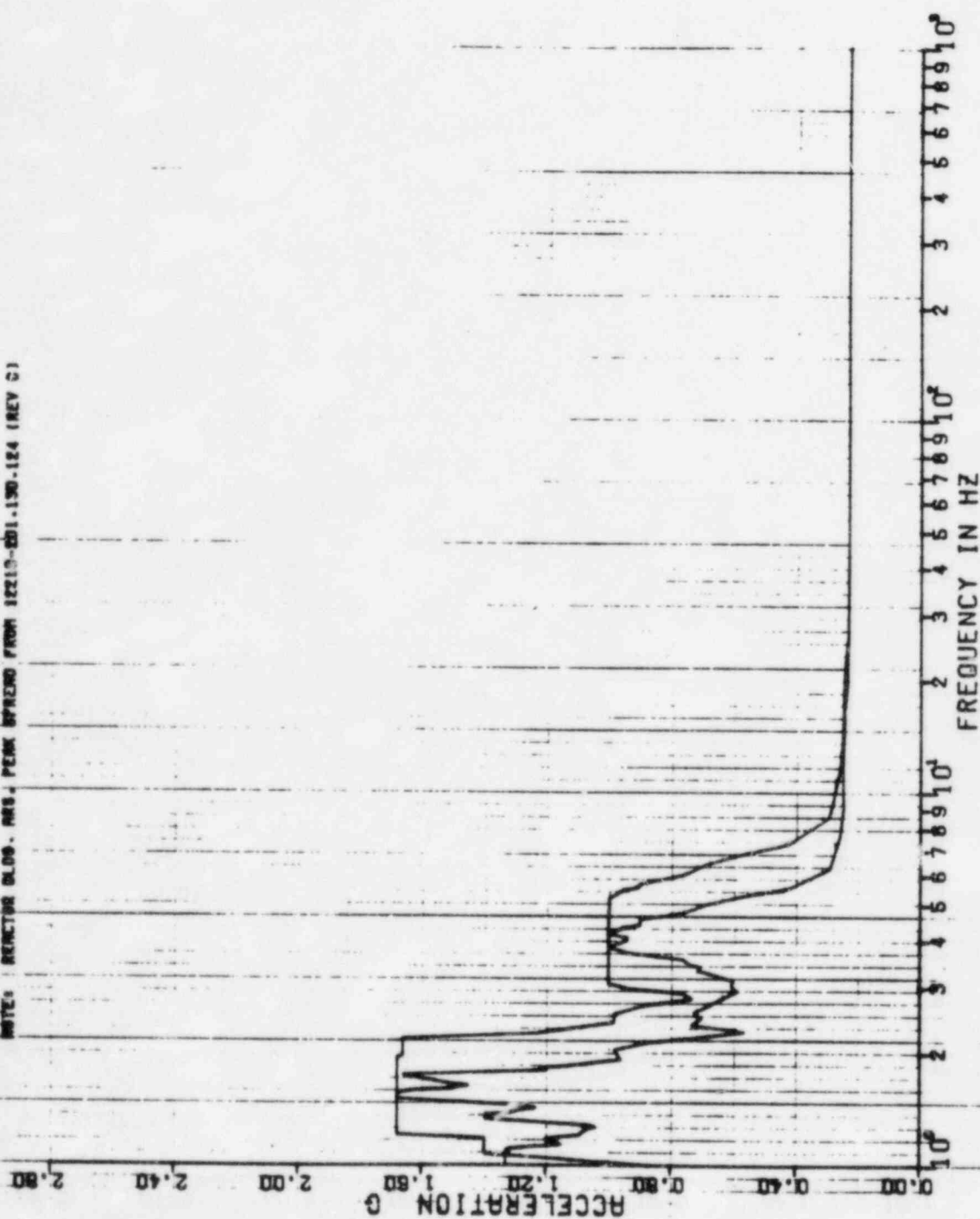
DISK CURVE SET NO.11

0.5 SSE MOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLOO. RMS. PEAK SPREAD FROM 12210-001.130-124 (REV C)



PSPECTRA VER 01 LEV 07

22 APR 1982

2.14

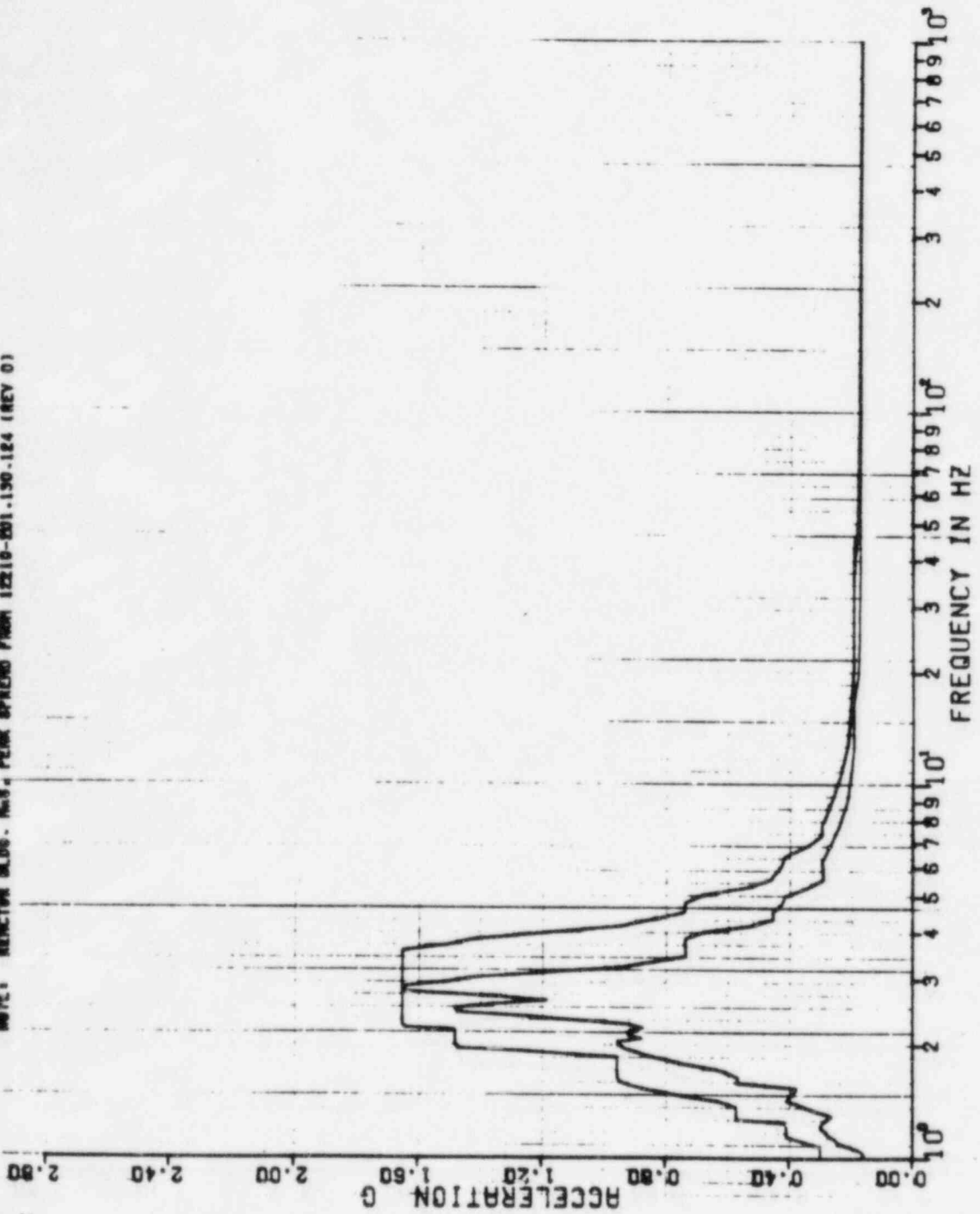
OULF STATE UTILITIES-R08 UNIT 1-CALC12210-NM(C)-50E-1903 REV(0)
 ARS OF ACC.-REACTOR BLDG.-EL-193.98.MASS=07 SEIS MODEL-SHIELD BLDG.
 OBE
 PEAK SPREAD -20%+25%

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.11 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. R08, PEAK SPREAD FROM 12210-201.190-124 (REV 0)



PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMCI-50E-1903 REV11)
RRS OF ACC.-REACTOR BLDG., EL-193.98, MASS-07 SE16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25%

DISK CURVE SET NO.12

1.0 SSE HOR DIRECTION

NOTE: REACTOR BLDG. RRS FROM 12210-201.130.124 REV 01

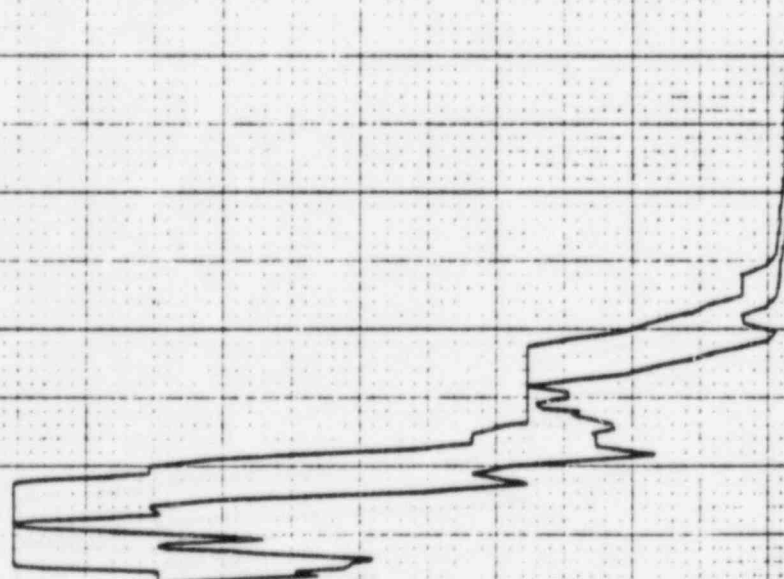
6 FEB 1983

6.6 A

K. KAY

DAMPING VALUE = 0.020

ACCELERATION G



FREQUENCY IN HZ

PSPECTRA VER 01 LEV 08

8 FEB 1983

61.4

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM(C)-6DE-1903 REV(1)
RRS OF ACC.-REACTOR BLDG.-EL=193.98, MASS=07 SE16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25% 66E

K. KAY

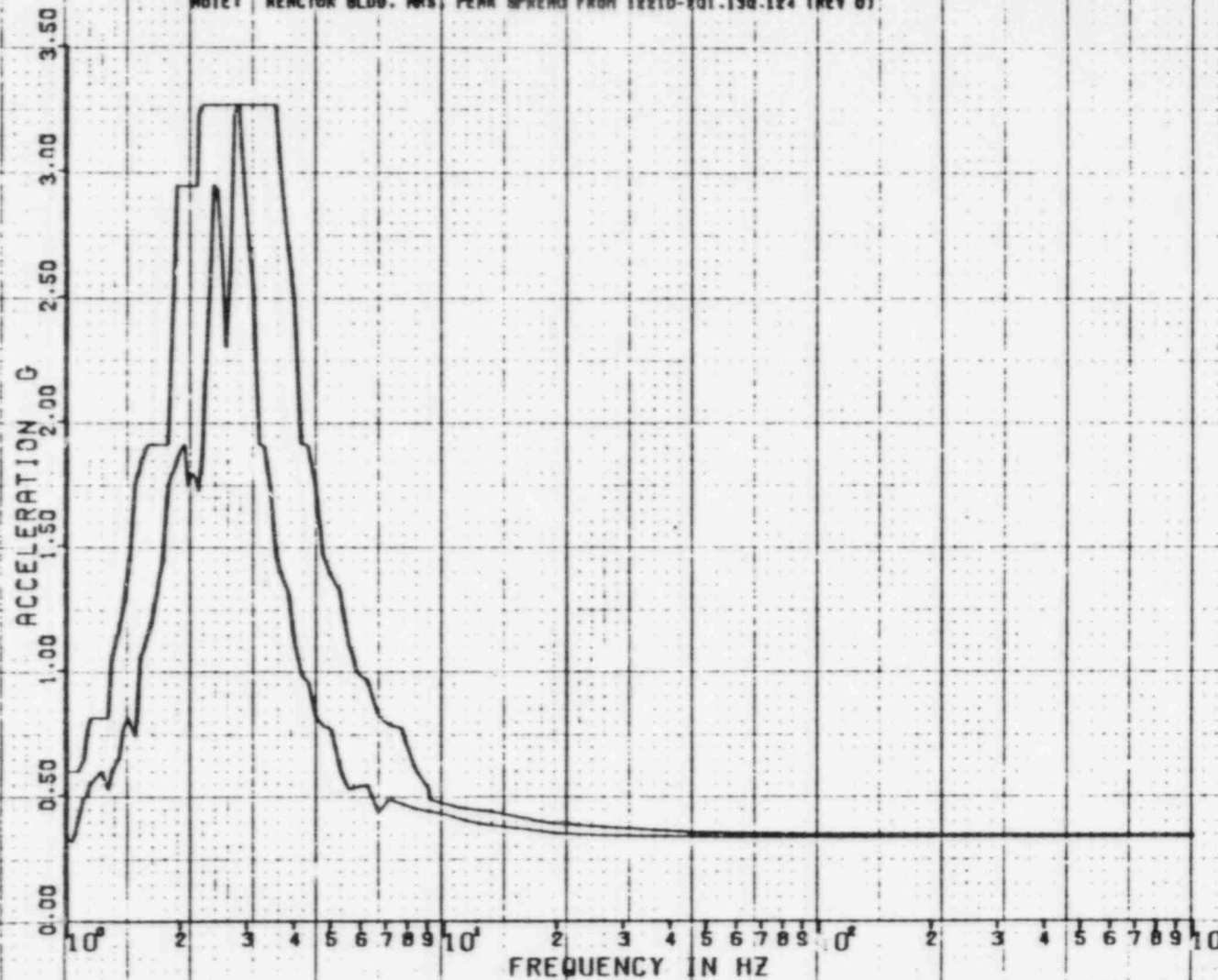
DISK CURVE SET NO.12

1.0 Sec

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RIS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 75

22 APR 1982

34

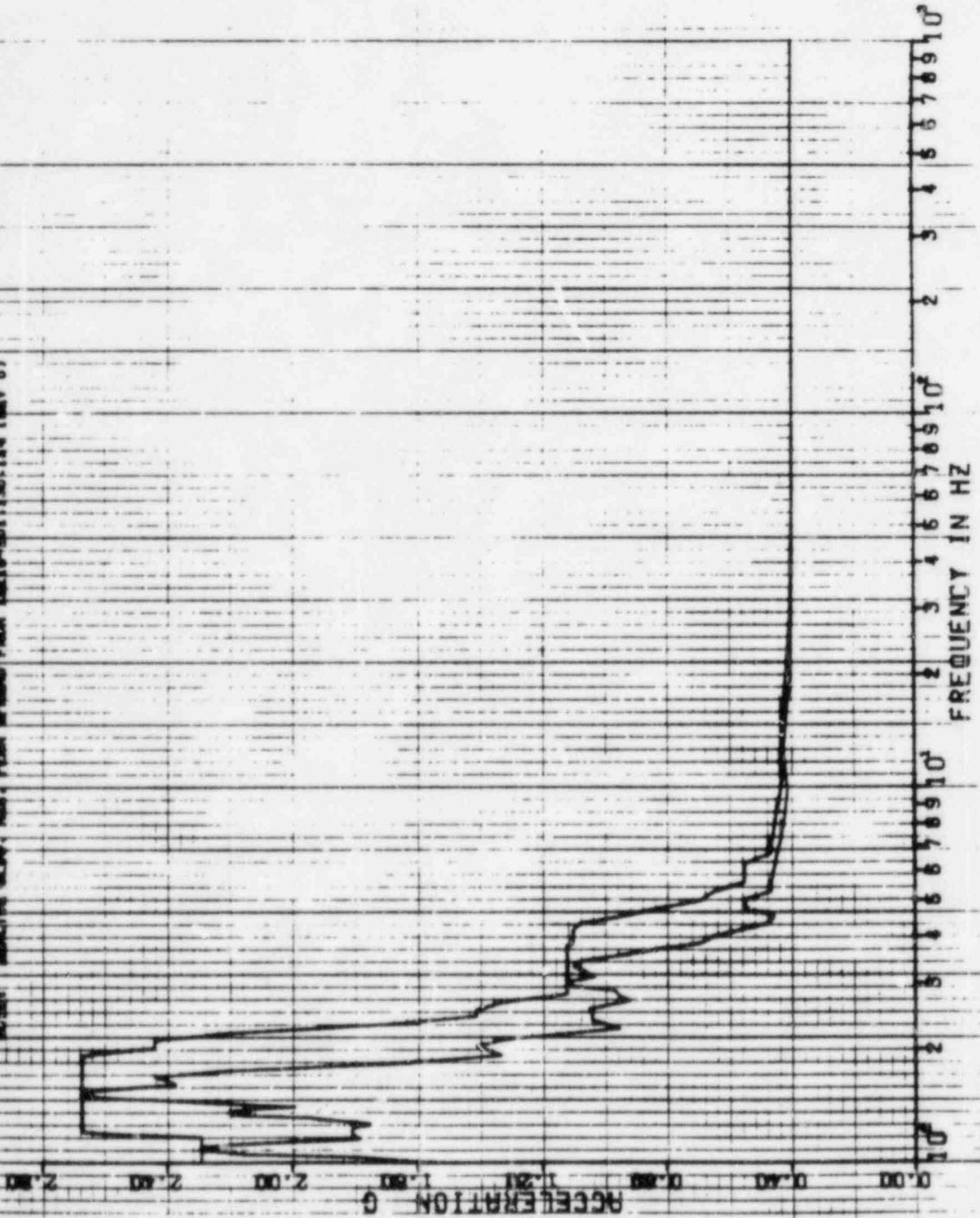
K.KAY

DAMPING VALUE = 0.090

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-WHIC1-50E-1903 REV(0)
 RSS OF REC:-REACTOR BLDG-EL-155-05-NOSS-07 SETS MODEL-SHIELD BLDG.
 PERC SPNRD -202.195Z

DISK CURVE SET NO.12
 1-D SSE MOR DIRECTION

WREN REACTOR BLDG. NO.8. FROM SPNRD FROM 12210-001.130.134 (REV 0)



22 APR 1982

24/4

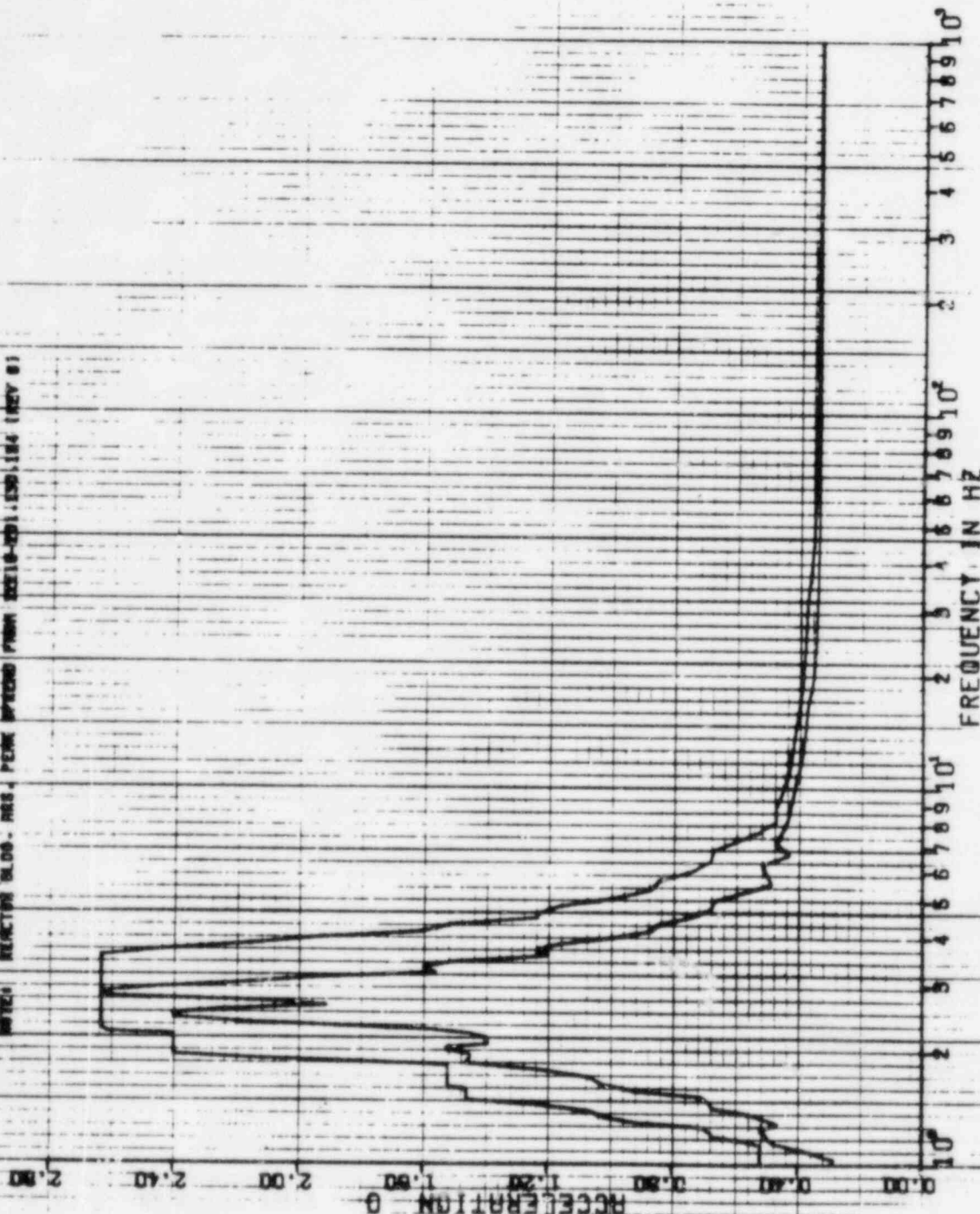
K-KAY

DAMPING VALUE = 0.030

PERPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-S02-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL=193.98, MASS=07 SEIS MODEL-SHIELD BLDG
 PERK SPRERO -2021-252
 DISK CURVE SET NO.12

1.0 SSE VER DIRECTION

NOTES: REACTOR BLDG. HAS. PEAK SPEED FROM SEIS-201.130.184 (REV 0)



22 APR 1962

17 p

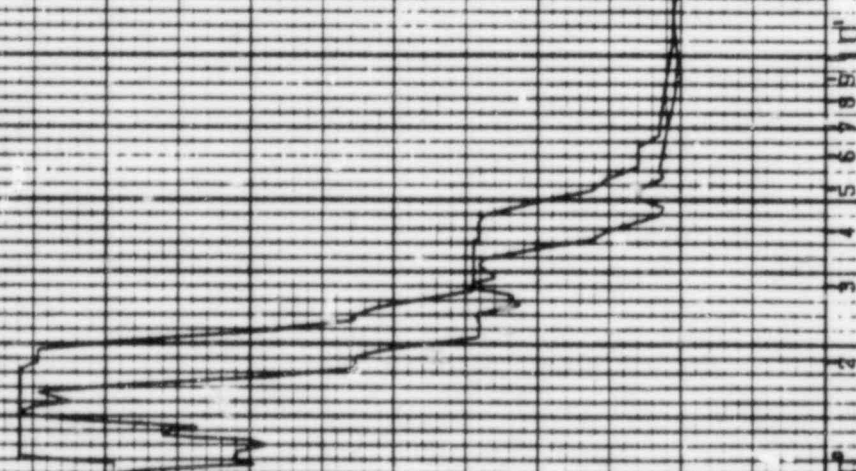
KAY

DAMPING VALUE = 0.010

PSPECTRUM VER 0 LEV 07
 GOLF STATE 07 C 115-205 ON - CMC 122 0-0012 - S0E - 90, REV 01
 RES OF ACC - REACTOR BLOC 01 - 193 90 PASS-07 SE S MODEL-SHIELD BLOC
 PEAR SPREAD 1207 1252
 DISK CURVE SE 00 12
 1.0 SSE HOR DIRECTION
 NOTES: SHIELDING BLOC 005 - PEAK MARKED FROM 022 0-001 030 124 ADV 01

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ
 10² 2 3 4 5 6 7 8 9 10³



SPECTRA VER 0 LCA 07

CULT STATE 01 L ES-RBS UNIT - CALC 2210-MN10-S00-1903 REV10
 RBS OF ACC - REACTOR BLOC CL-193 90 MASS-07 SE S-MODEL-SHIELD BLOC
 PEAR SPREAD-207 1552

DISA CURVE SE 00 12

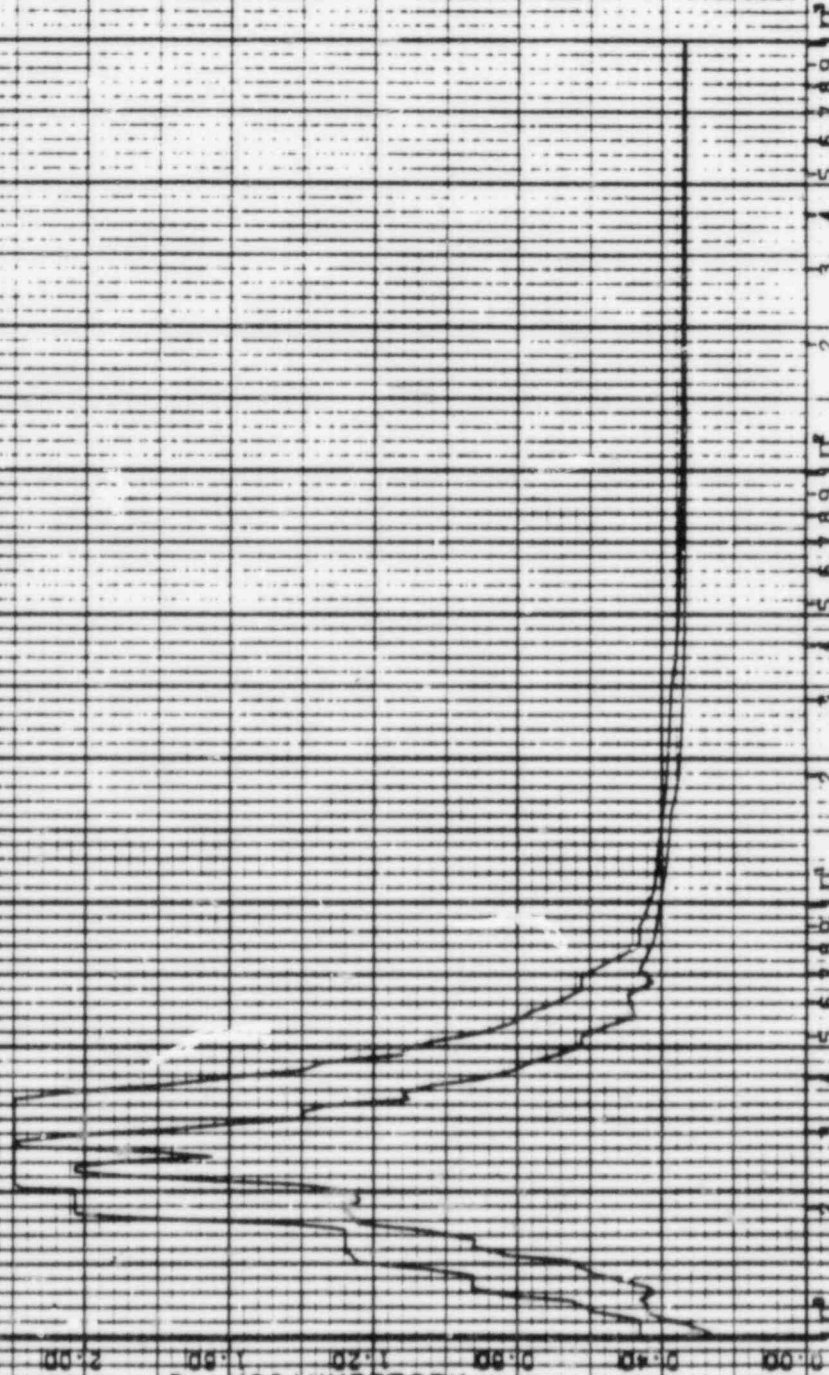
0 SSE VER DIRECTION

DAMPING VALUE = 0.010

NOTE: REACTOR BLOC - RES - FROM SPREAD FROM USED-ED L350 154 REV 01

ACCELERATION

FREQUENCY IN HZ



22 APR 1982

RAY

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MMIC1)-60E-1903 REV(C)
 RRS OF ACC.-REACTOR BLDG.EL=214.31.MASS=08 SETS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%
 OBE

DISK CURVE SET NO.13

0.5 SSE

HOR DIRECTION

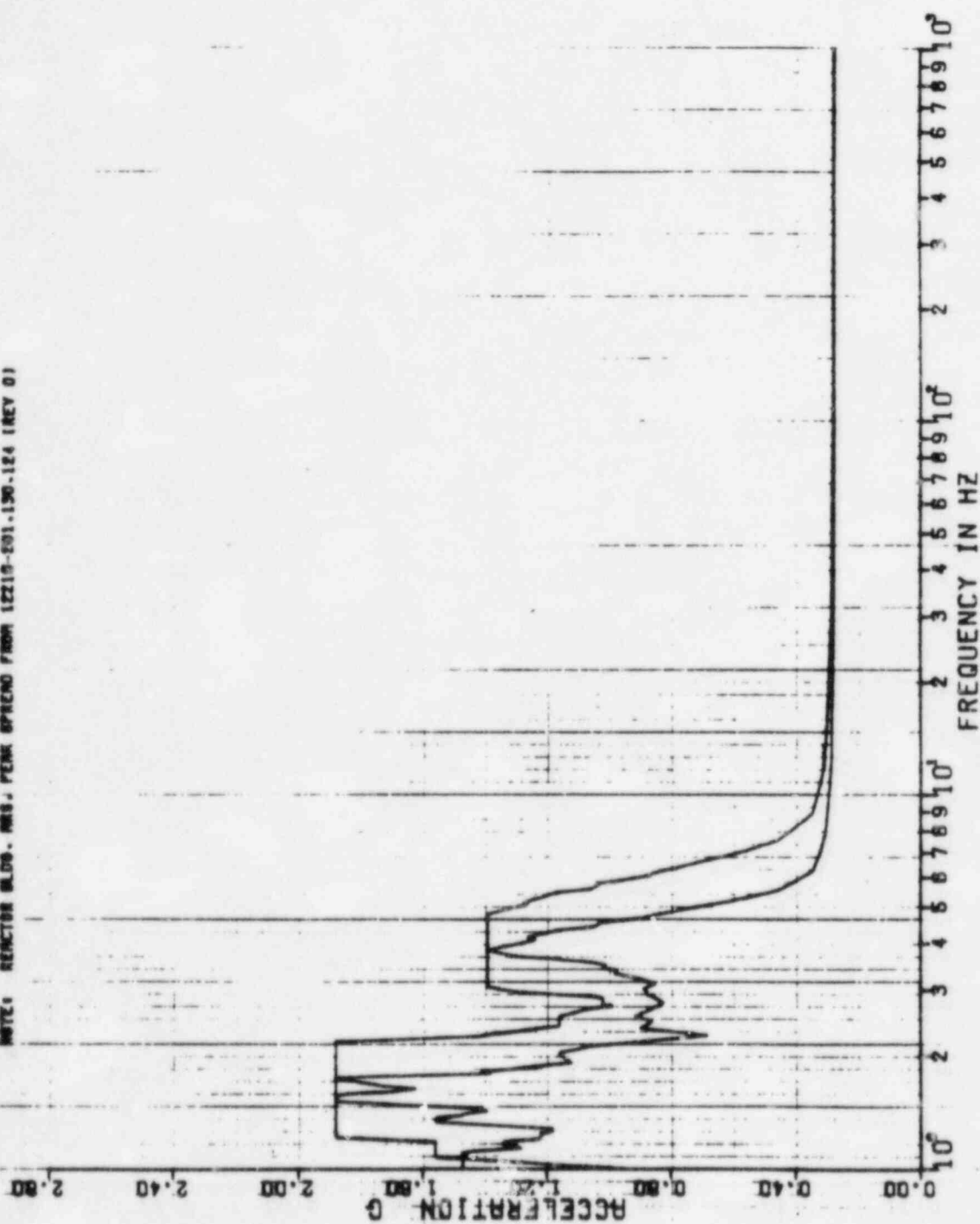
DAMPING VALUE = 0.020

22 APR 1982

2/10 4

K.KAY

NOTE: REACTOR BLDG. MASS PEAK SPREAD FROM 12210-201.150-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

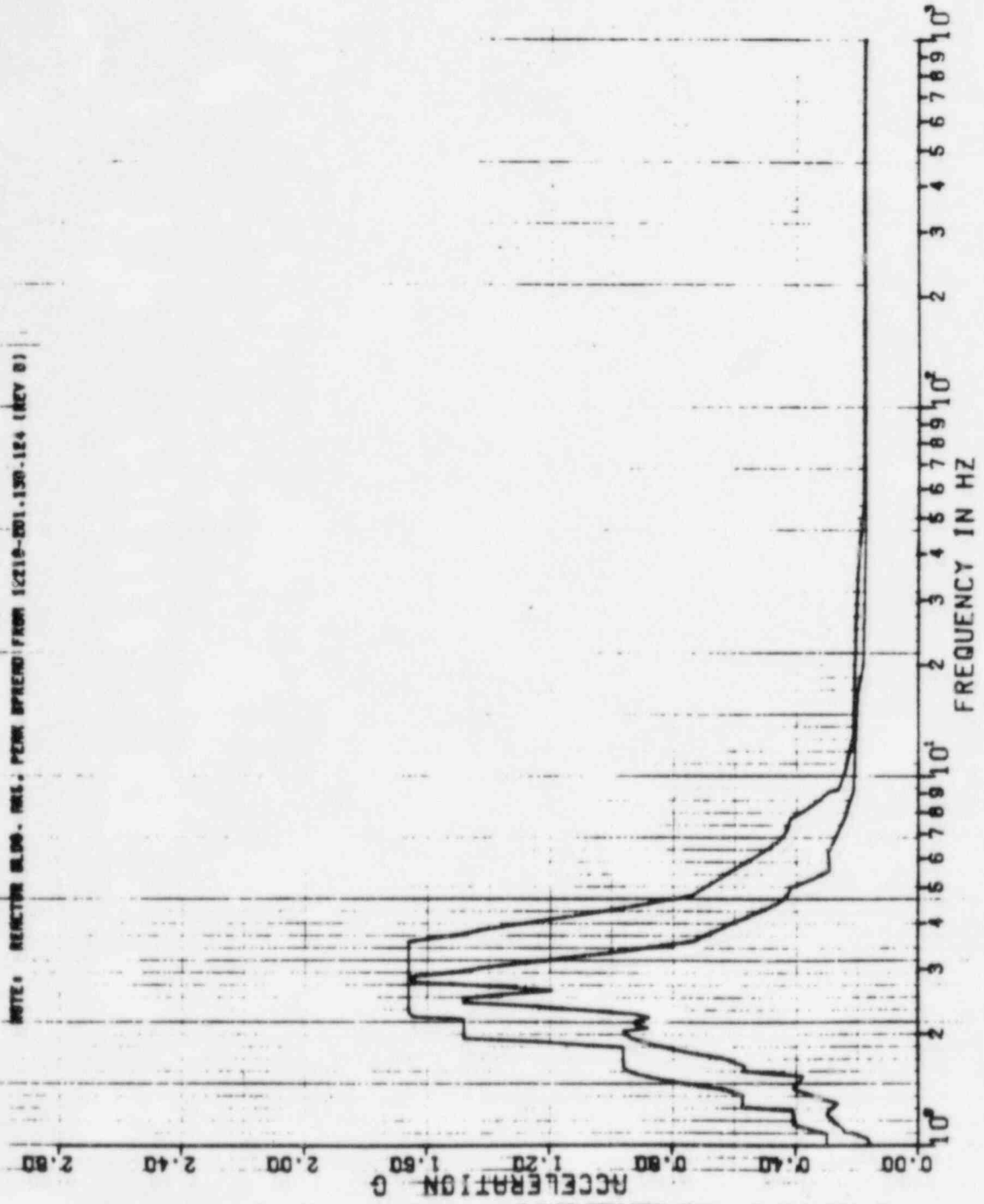
GULF STATE UTILITIES-RSS UNIT 1-CALC10210-NH(C)-S02-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL-214.31.MASS-08 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.13 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. REL. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



PSPECTRA VER 01 LEV 06

GULF STATES UTILITIES-RDS UNIT 1-CALC12210-MHEC1-50E-1903 REV111
ARS OF ACC.-REACTOR BLDG..EL=214.31.MASS=08 6E16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25%

DISK CURVE SET NO.14

NOTE: REACTOR BLDG. NPS. PEAK SPREAD FROM 12210-101.136.184 (REV 01)

1.0 SSE

HOR DIRECTION

SSE

8 FEB 1983

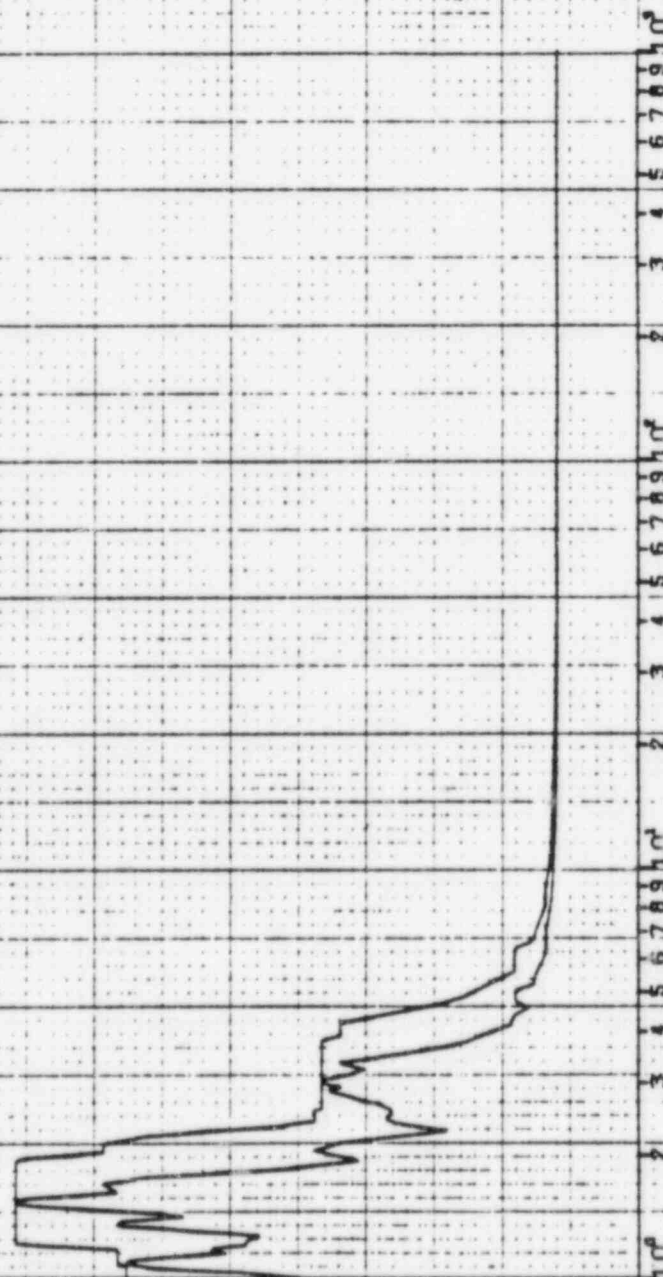
K. KAY

DAMPING VALUE = 0.020

6124

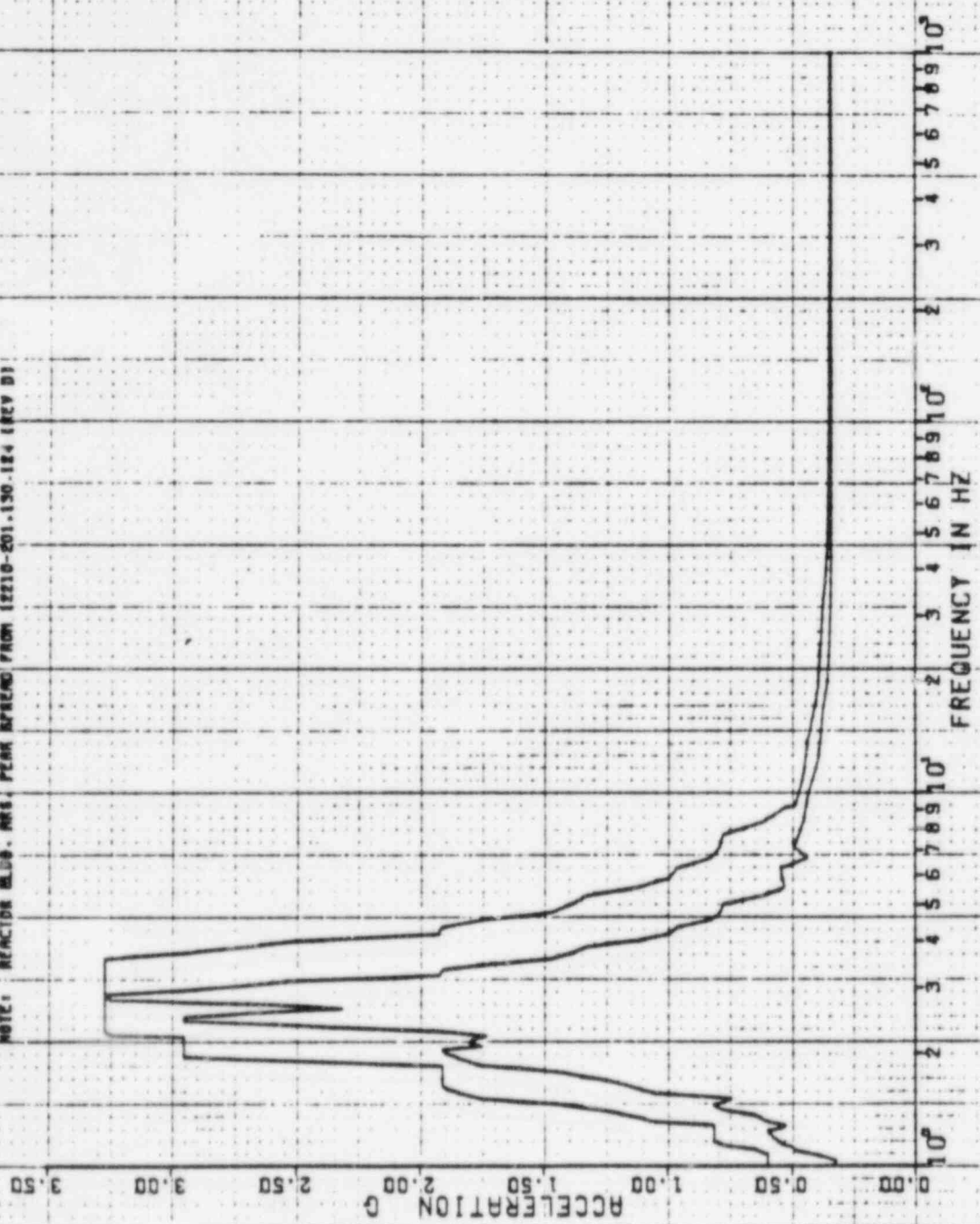
ACCELERATION

FREQUENCY IN HZ



011A
6 FEB 1963
K. KAY
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MHIC1-50E-1903 REV(1)
MRS OF ACC.-REACTOR BLDG.-EL-214.31, MASS-08 SE16 MODEL-SHIELD BLDG
PEAK SPREAD -20% +25%
DISK CURVE SET NO. 14
1.0 SSE VER DIRECTION
NOTE: REACTOR BLDG. MRS. PEAK SPREAD FROM 12210-201.130-124 (REV D)



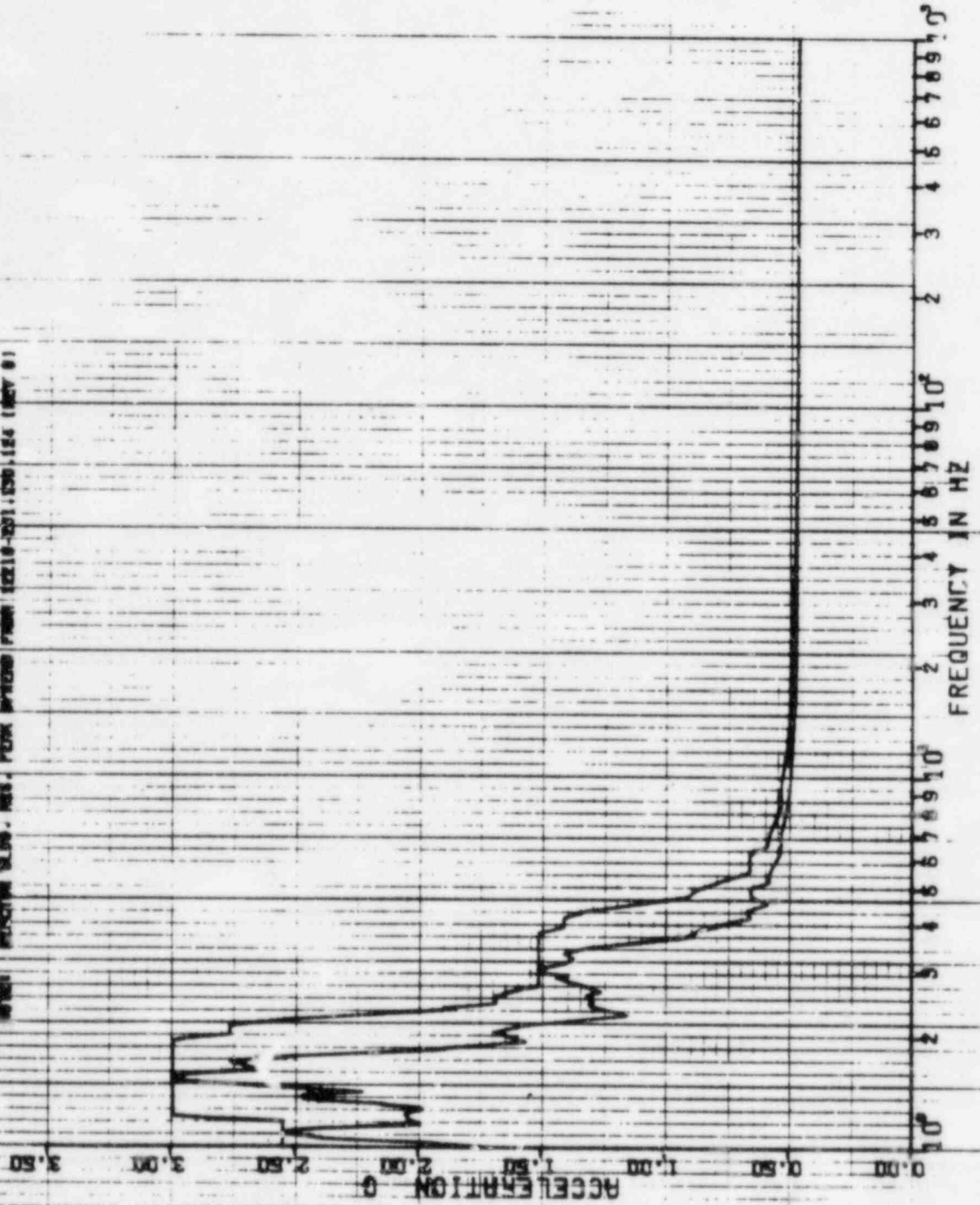
22 APR 1982

2.974

K-KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RDS UNIT 1-CAL 12210-WH(C)-501-1903 REV10)
 RRS OF ACC.-REACTOR BLDG-EL-214 J1.NR65-08 SE16 MODEL-6WIELD BLDG.
 PERK APREMO -201.125Z
 DISK CURVE SET NO.14
 1.0 SSE HOR DIRECTION
 10000 HZ/INCH BLDG. NOS. PERK APREMO FROM 10010-1001.500.154 (REV 8)



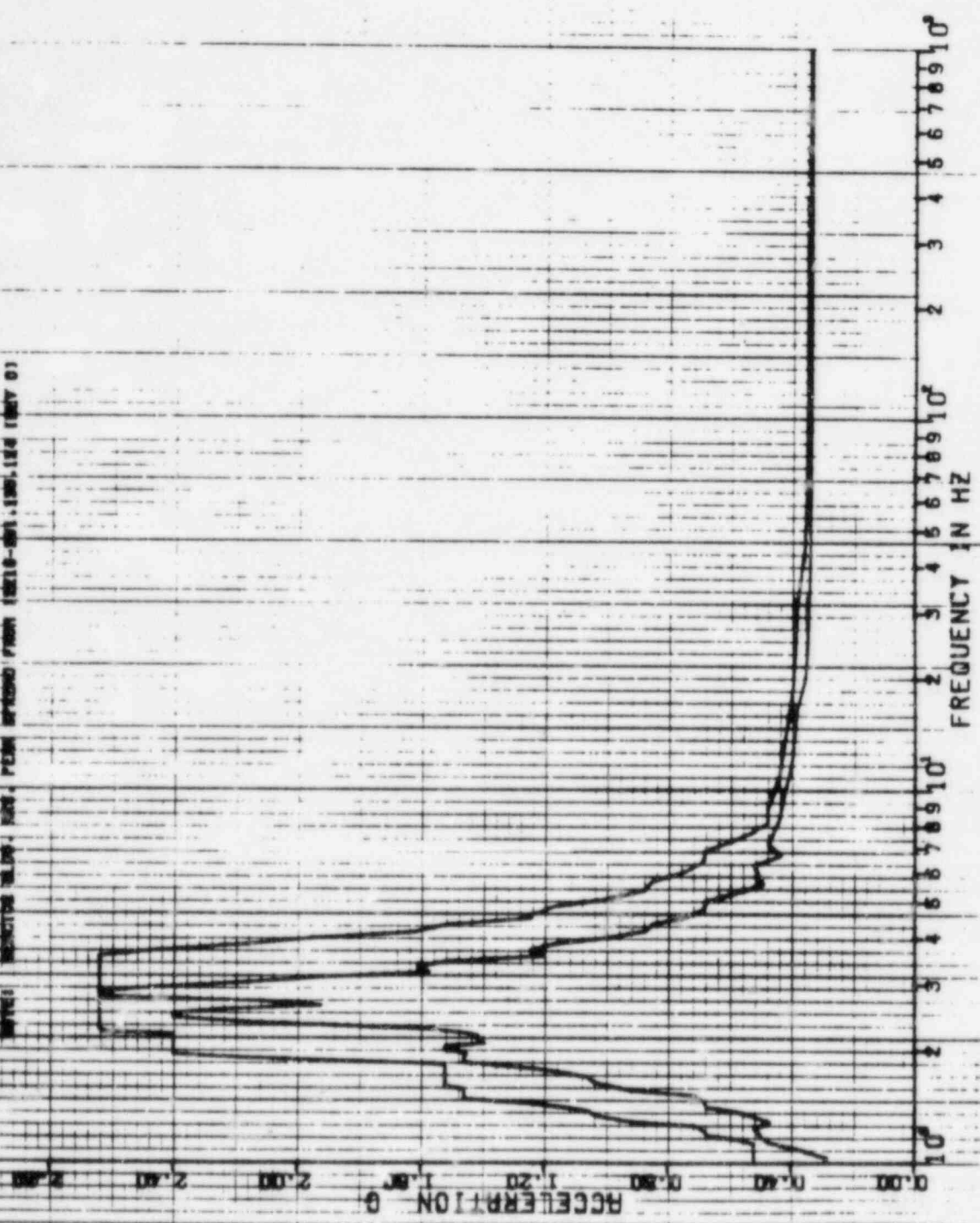
349A

22 APR 1982

K-KAY

DAMPING VALUE = 0.030

PEPCTON VER 01 LEV 07
 GOLF STATE UTILITIES-NBS UNIT 1-CALC12210-WN(C)-802-1909 REV(0)
 NBS OF NCC-REACTOR BLDG-EL-214-31.MASS-08 5E16 MODEL-SHIELD BLDG.
 PERK SPEND -201.425X
 DISK CURVE SET NO.14
 1.0 SSE VER DIRECTION
 NBS1 REACTOR BLDG. NBS. PERK SPEND FROM 1210-01.120.124 (REV 0)



22 APR 1987

PSPECTRA VER 01 LEV 07

FILE STATE 01 FILES-RMS ONLY -CALC 12210-11-100-1903 REV 01
 RMS OF ACC. REACTOR 0100 CL-2.1.31 MASS-06 SEIS MODEL-SHIELD BLDG
 PEAK SPREAD 1.203 1.257

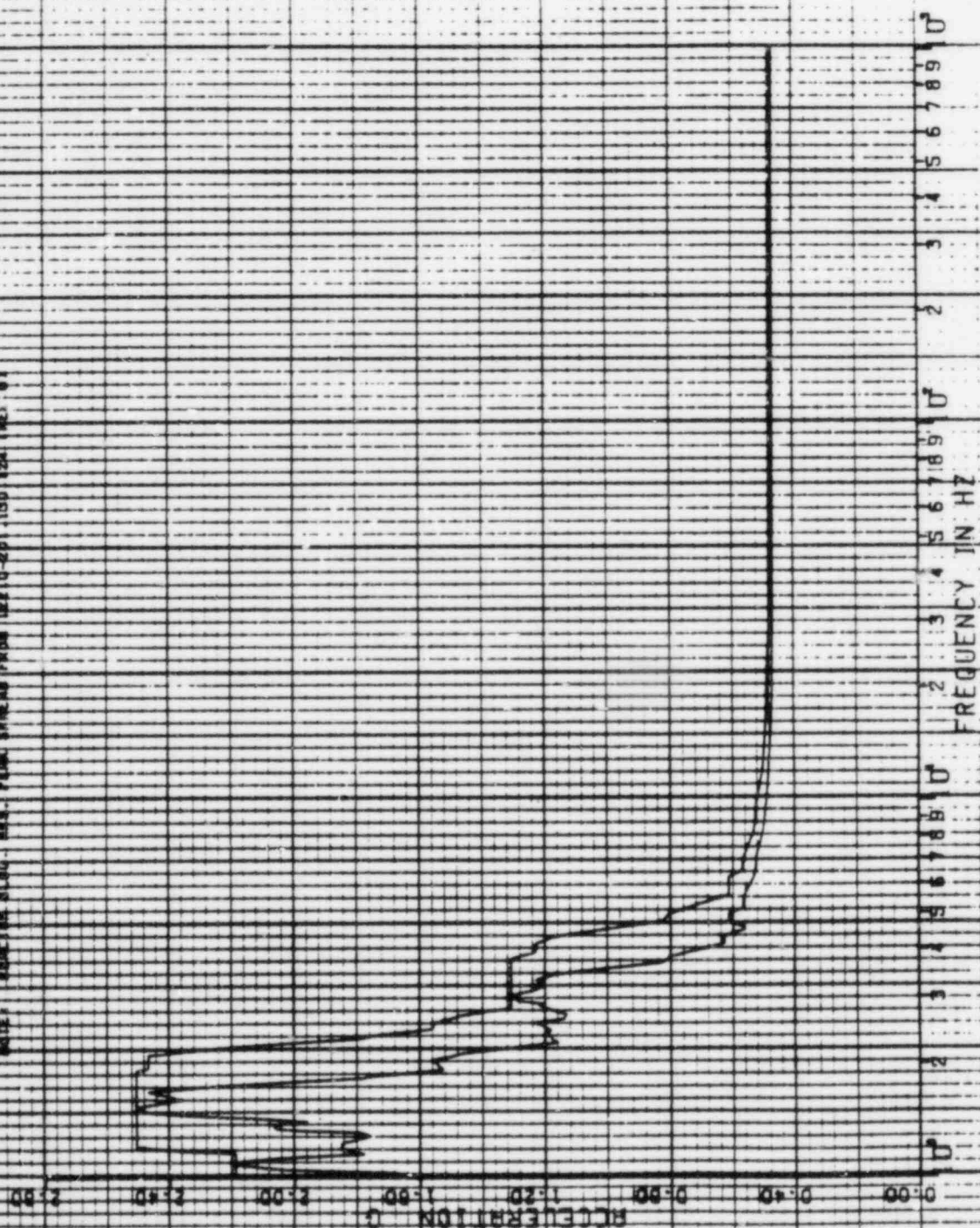
DISK CURVE SE NO 1.1

0.55E

ROR DIRECTION

DAMPING VALUE = 0.00

NOTE: REACTOR BLDG. HAS. PEAK SPREAD FROM 1.203 TO 1.257 (AC. 61)



22 APR 1983

E MAY

SAMPLING VALUE = 0.00

RESPECTOR VER 0 LEV 07

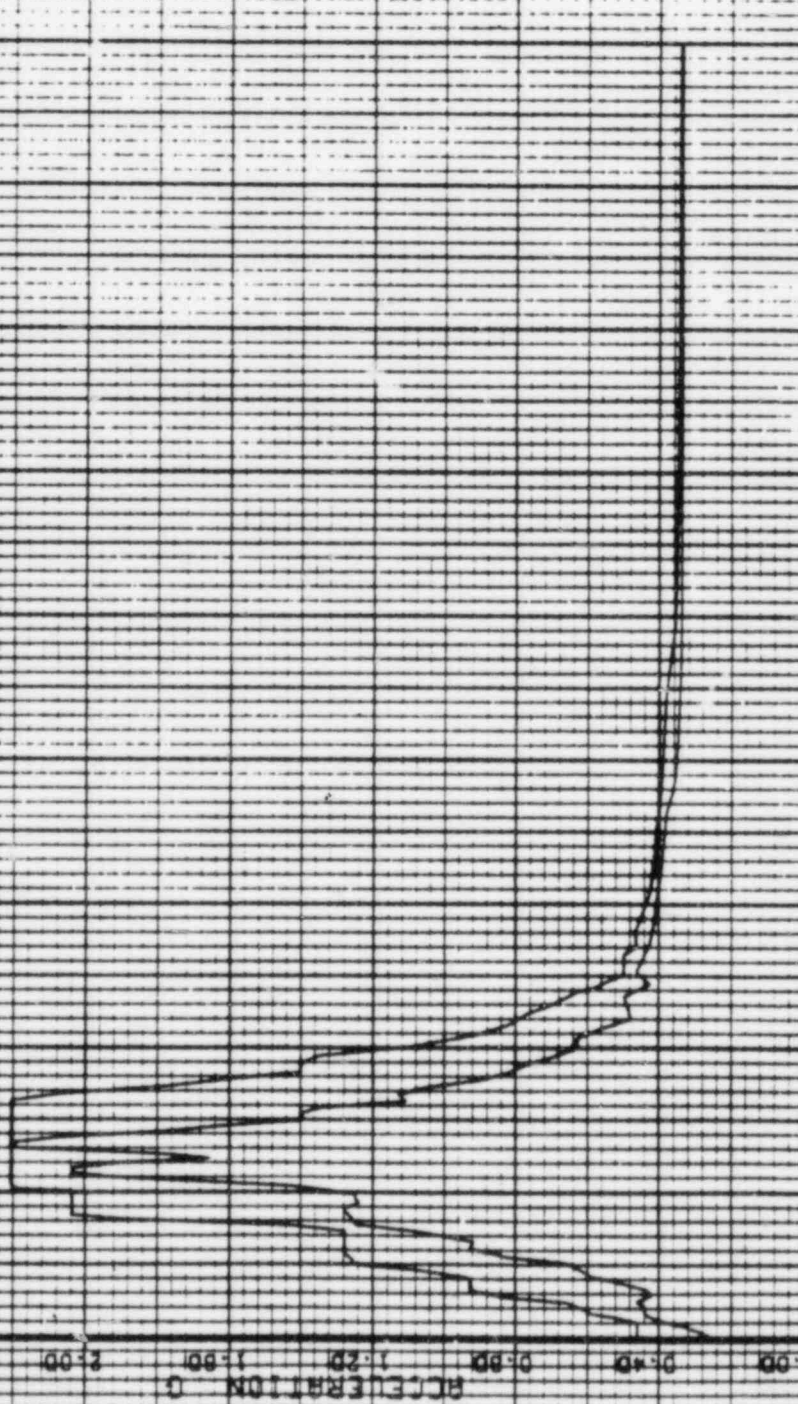
ONLY STATE UTILITIES-RMS ONLY -CALC 12210 NHTD -505-1903 REV 01
 RMS OF ACC -REACTOR BLOC CL-2 1.31 MASS-08 SETS MODEL-SHIELD BLOC
 PEAR SPREAD 1.25

0.5X CURVE SET NO 1.4 0.55X VER DIRECT.00

NOTE: REACTOR BLOC HAS BEEN LARGELY FROM 0.25 TO 1.50 12M (REV 01)

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50

FREQUENCY IN HZ 0 1 2 3 4 5 6 7 8 9 10



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-248.00, MASS=09 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.15

0.5 SSE

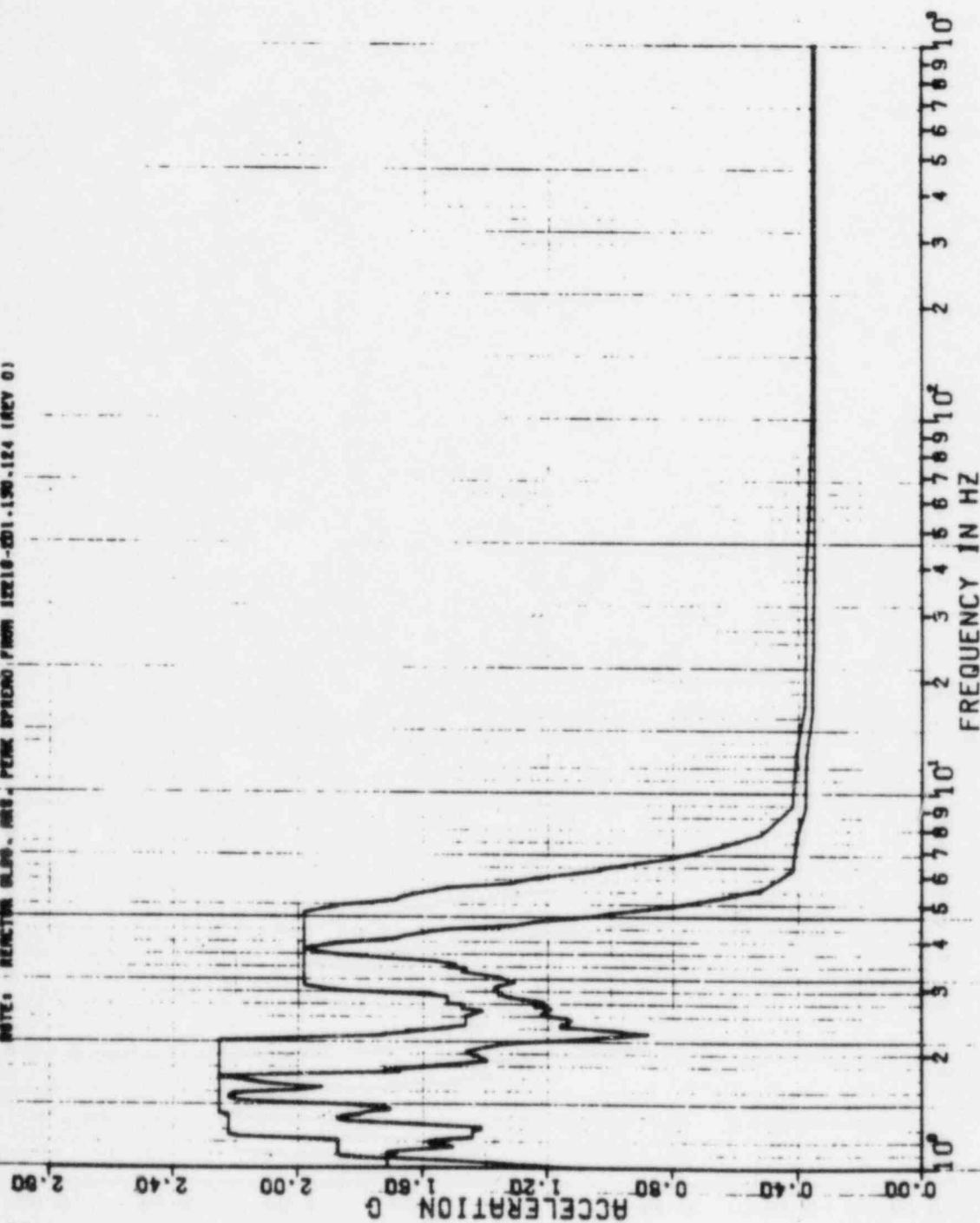
HOR DIRECTION

22 APR 1982

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS, PEAK SPREAD FROM SEE18-DB1.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-50E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL=248.00, MASS=09 SEIS MODEL-SHIELD BLDG.
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.15

0.5 SSE

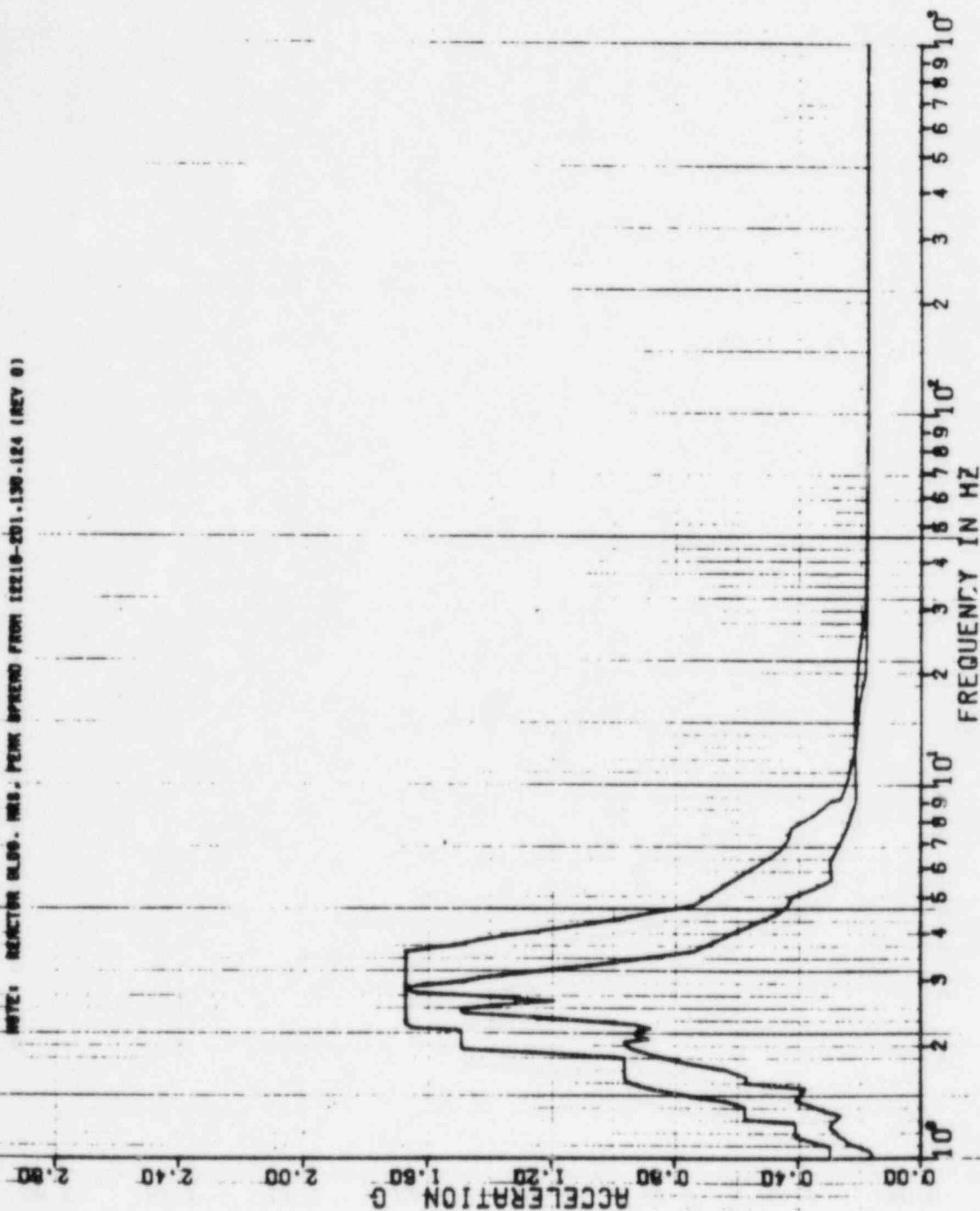
VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-201.130-124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



6 FEB 1985

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS. UNIT 1-CALC12210-NM1C3-60F-1803 REV:1)
 RRS OF ACC.-REACTOR BLDG. EL=248.00.MASS=09 5E16 MODEL-SHIELD BLDG
 PEAK SPREAD -20% +25% 56E

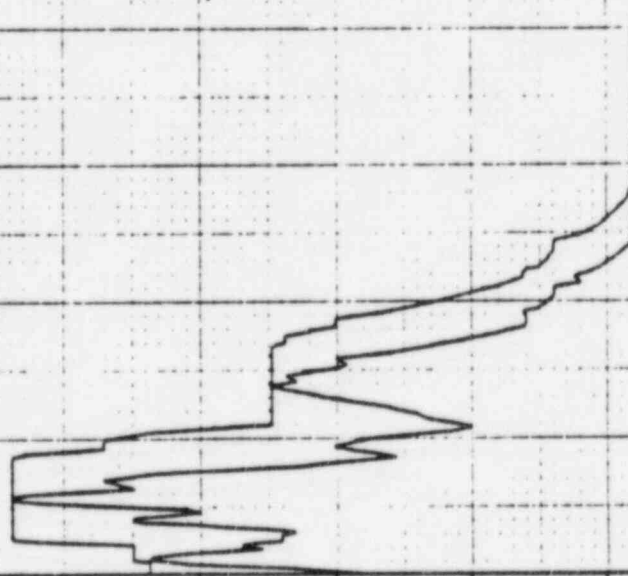
1.0 56E HOR DIRECTION

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130-124 18EY D)

DISK CURVE SET NO.16

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 00

GULF STATES UTILITIES-RDS UNIT 1-CALC12210-NMCT-60E-1903 REV(1)
 RRS OF ACC.-REACTOR BLDG. EL-248.00, MASS-09 6Z16 MODEL-SHIELD BLDG
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.16

1.0 SSE

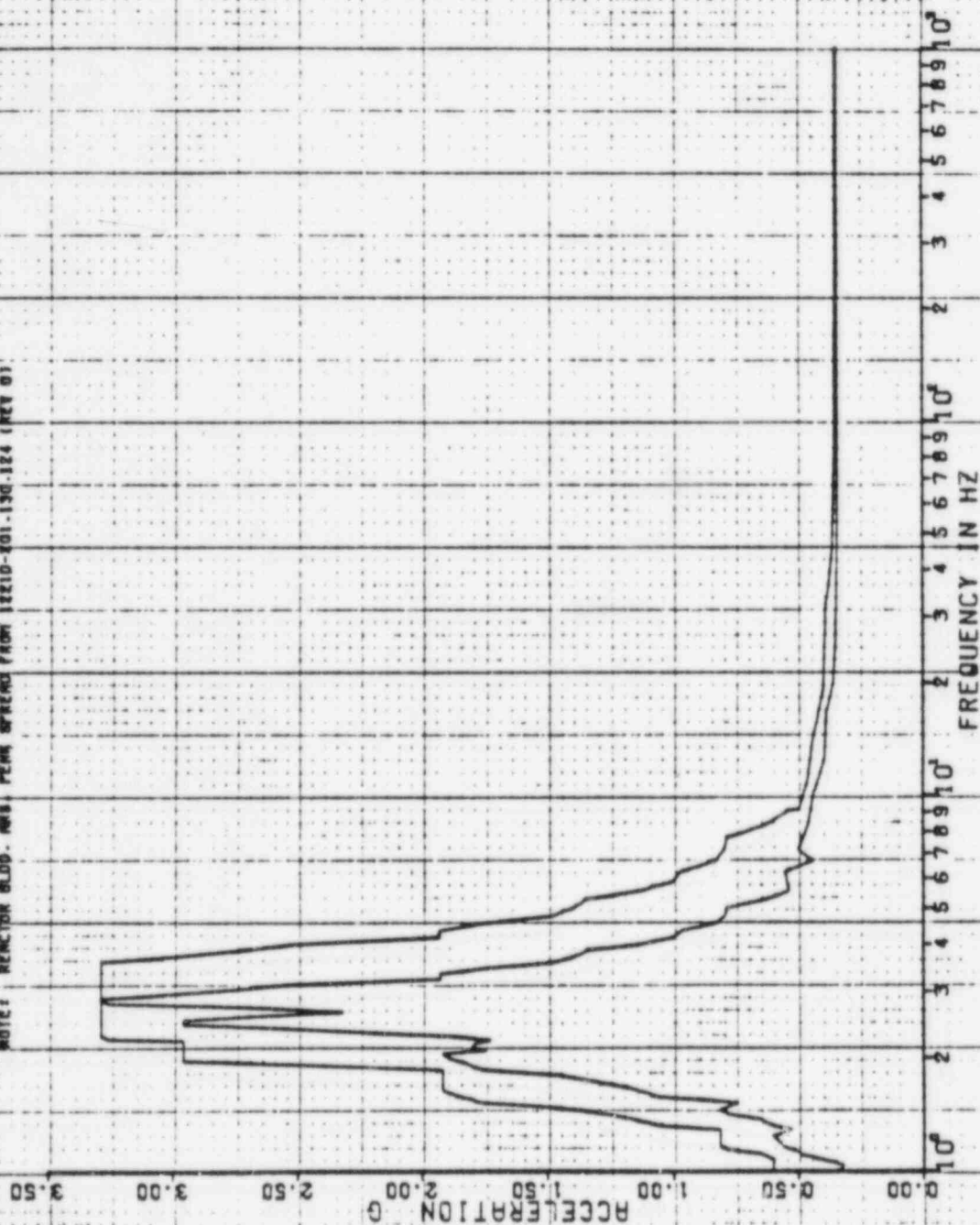
VER DIRECTION

NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM 12210-001.130.124 (REV 0)

8 FEB 1963

K. MAY

DRAWING VALUE = 0.020



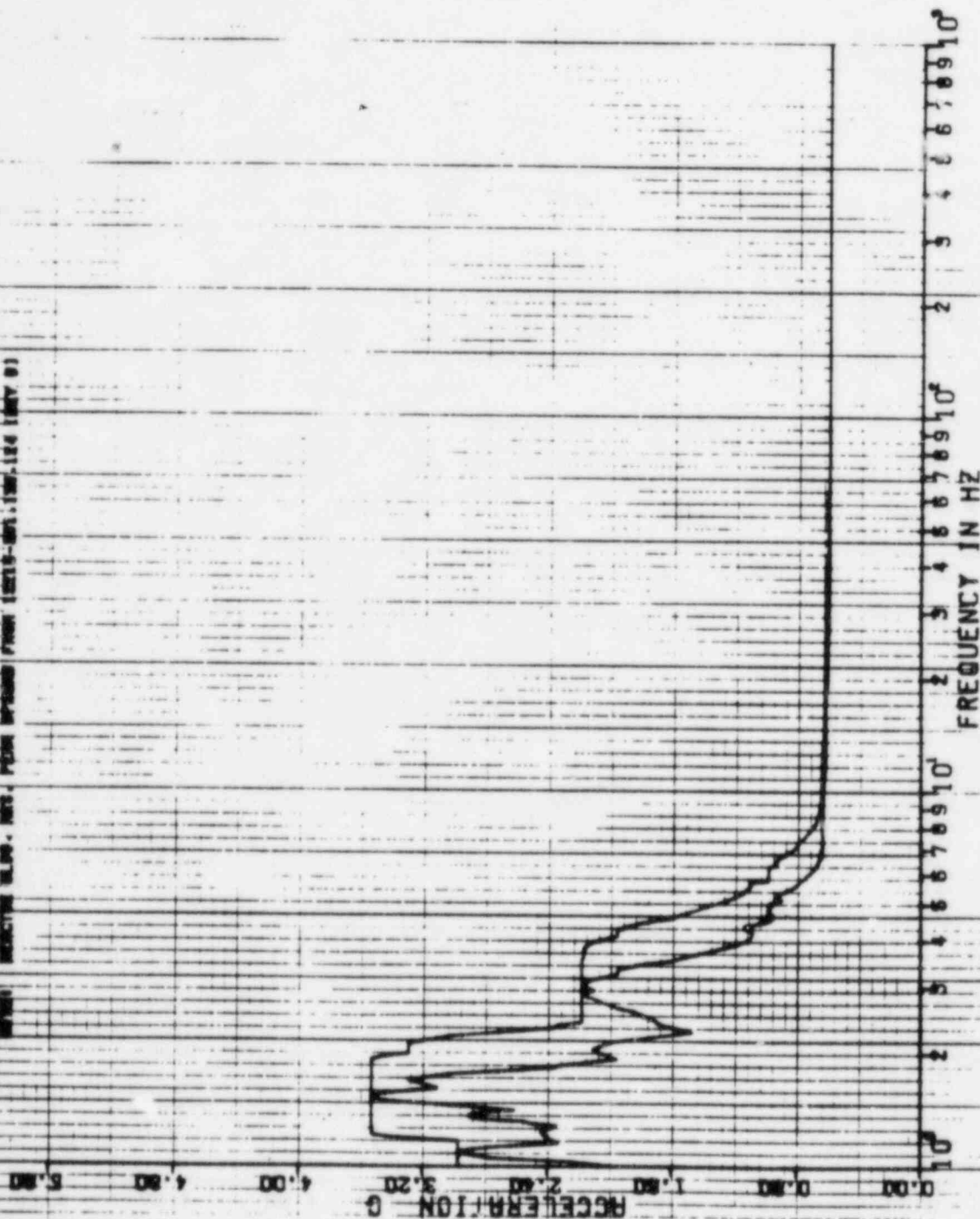
22 APR 1962

35 d

K. KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MN10-80E-1909 REV 10)
 ARE OF REC-REACTOR BLDG-CL-248-00-MASS-09 SEIS MODEL-2NFIELD BLDG.
 PEAK SPREAD -20X-25X
 DISK CURVE SET NO.16
 1.0 SSE
 HOR DIRECTION
 FROM REACTOR BLDG. INT. FROM BLDG FROM 1215-001.124 (REV 9)



3517

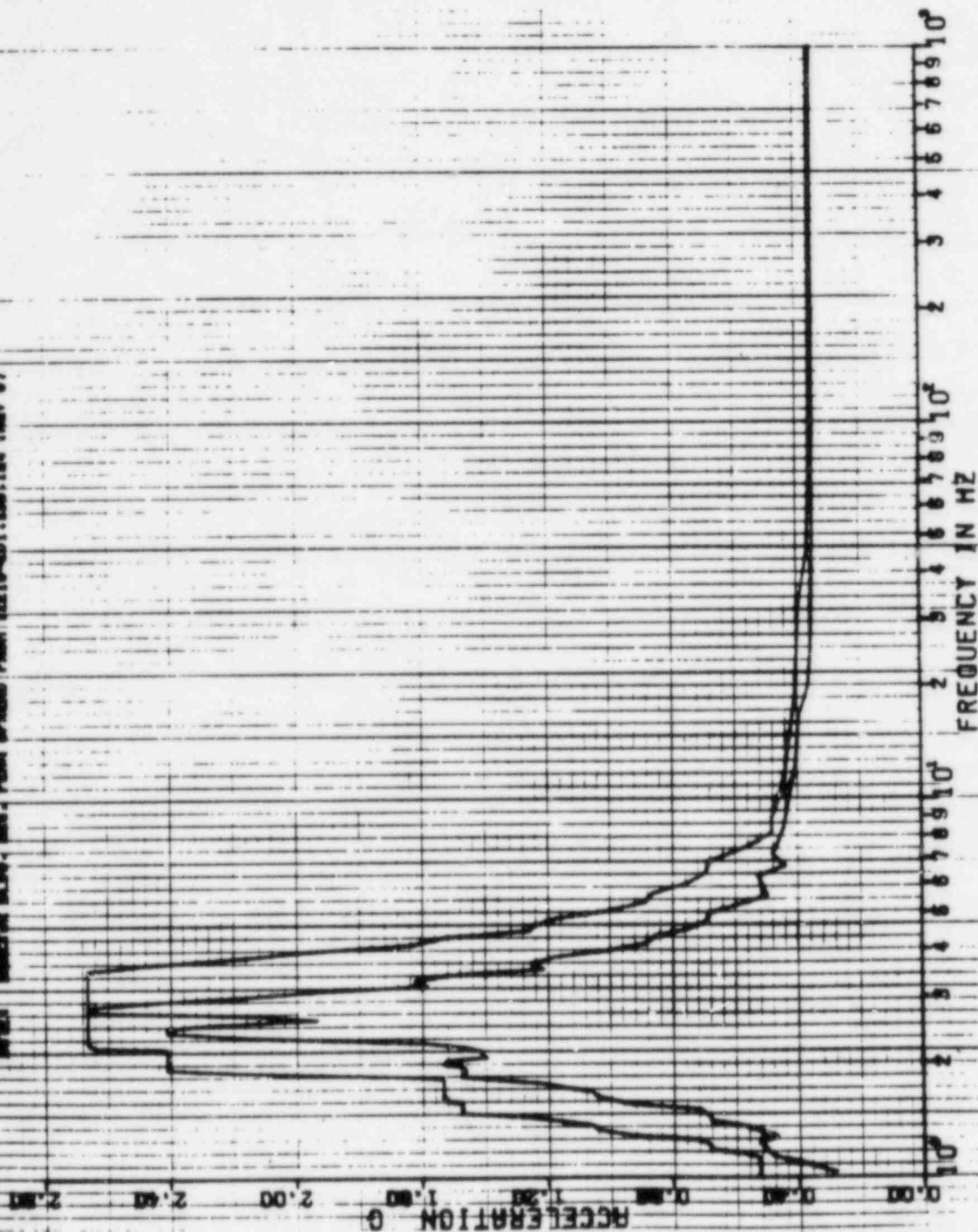
K. KAY

BUMPING VALUE = 0.090

PSLCTR VER 01 LEV 07
 COUNTE UTILITIES FOR UNIT 1-CALC12210-AM(C)-600-1903 REV(0)
 JOB OF REC-RECTOR BLDG-EL-240-00-MASS-09 SETS MODEL-591ELD BLDG
 END SEND -207.325Z 88Z

1.0 SSE VER DIRECTION

THE UNIVERSITY OF CHICAGO PRESS



ASPECTRA VER 01 REV 07

QUICK STATE UTILITIES HAS ONLY 1-CALCULATED 1-500-1903 REV001
HAS OR ACC - REACTOR BLOOD 2.48 00 MASS=09 SETS MODEL-SHIELD BLOOD
REAR SPREAD 200 2252

DISK CURVE SET NO 16

0.55E

HOR DIRECTION

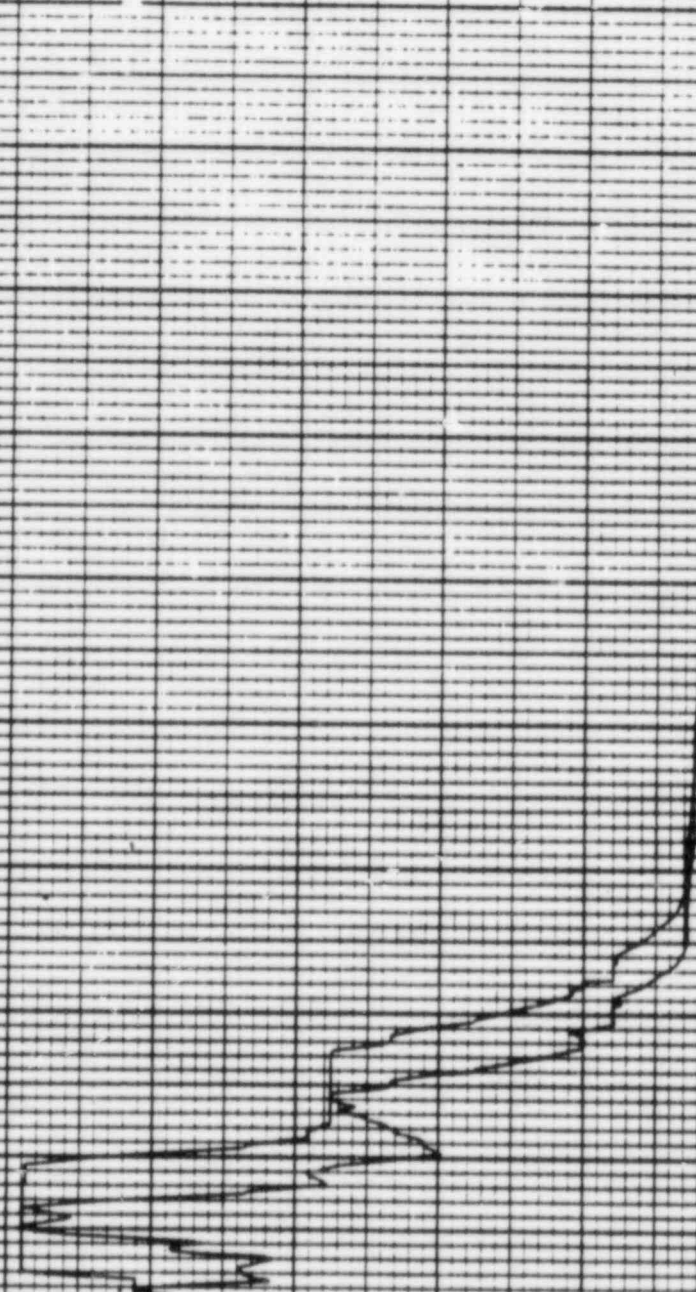
SAMPLING VALUE = 0.010

NOTE: REAR ON BLOOD HAS BEEN LAMENED FROM 1.25 TO 1.156 UZS (REV 01)

ACCELERATION G

FREQUENCY IN HZ

0 1 2 3 4 5 6 7 8 9 10



ASPECTRA VER 01 LEV 07

OUR STATE UTILITIES-RBS UNIT 1-CALCUT2210-MH01-SOE-1903 REV10
 RBS ON ACC - REACTOR BLOC BLU-248.00 MASS-09 SEIS MODEL-SHIELD BLOC
 SEIS
 PEAK FREQU 203.125

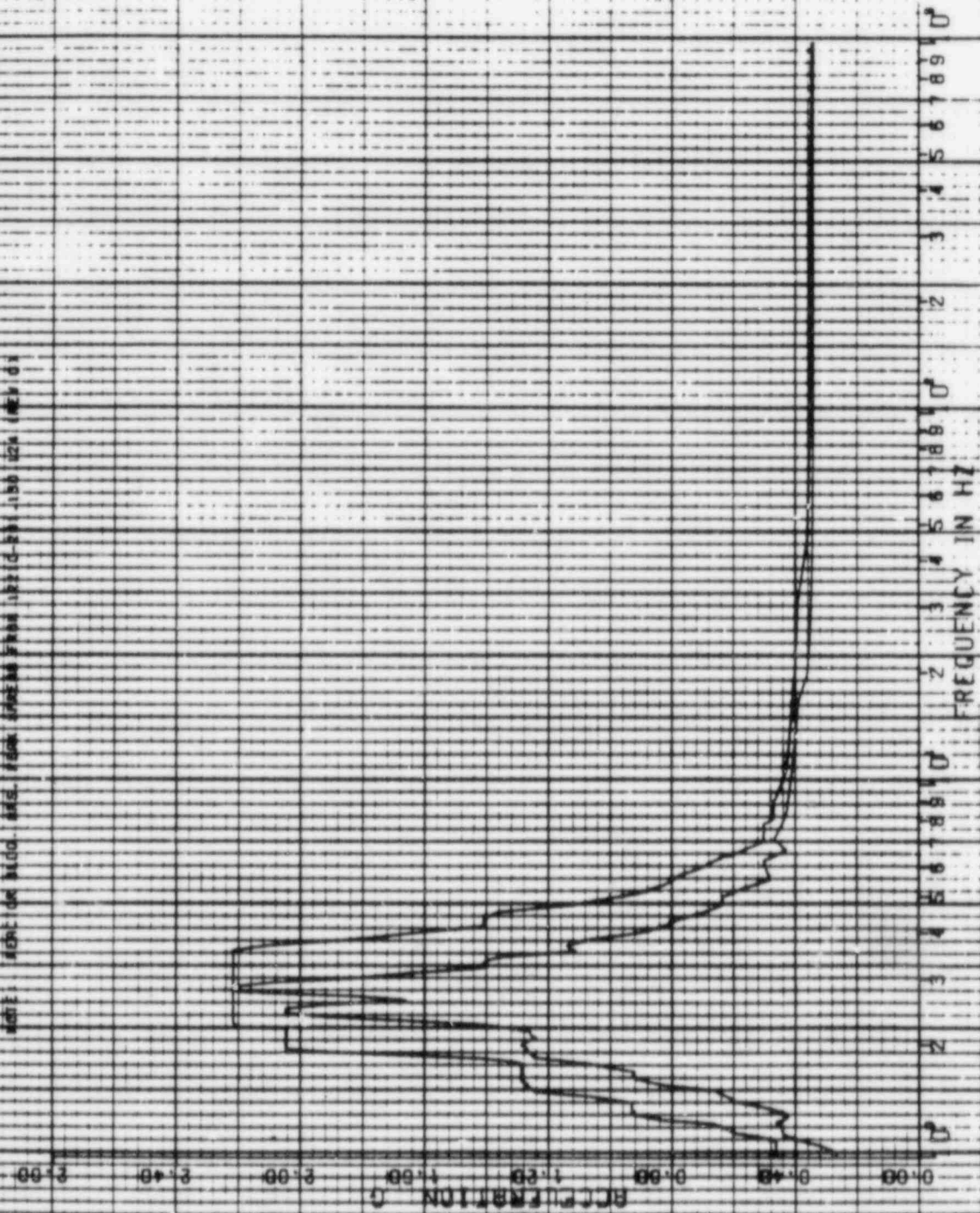
DISK CURVE SET NO.16

0.33E

VER DIRECTION

SNAPPING VALUE = 0.040

NOTE: MOCH de BLOC. ANAL. FROM 1968-1988. 1000-2000 Hz. 1000-2000 Hz.



22 APR 1982

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717A

PSPECTRA VER 01 LEV 07

22 APR 1982

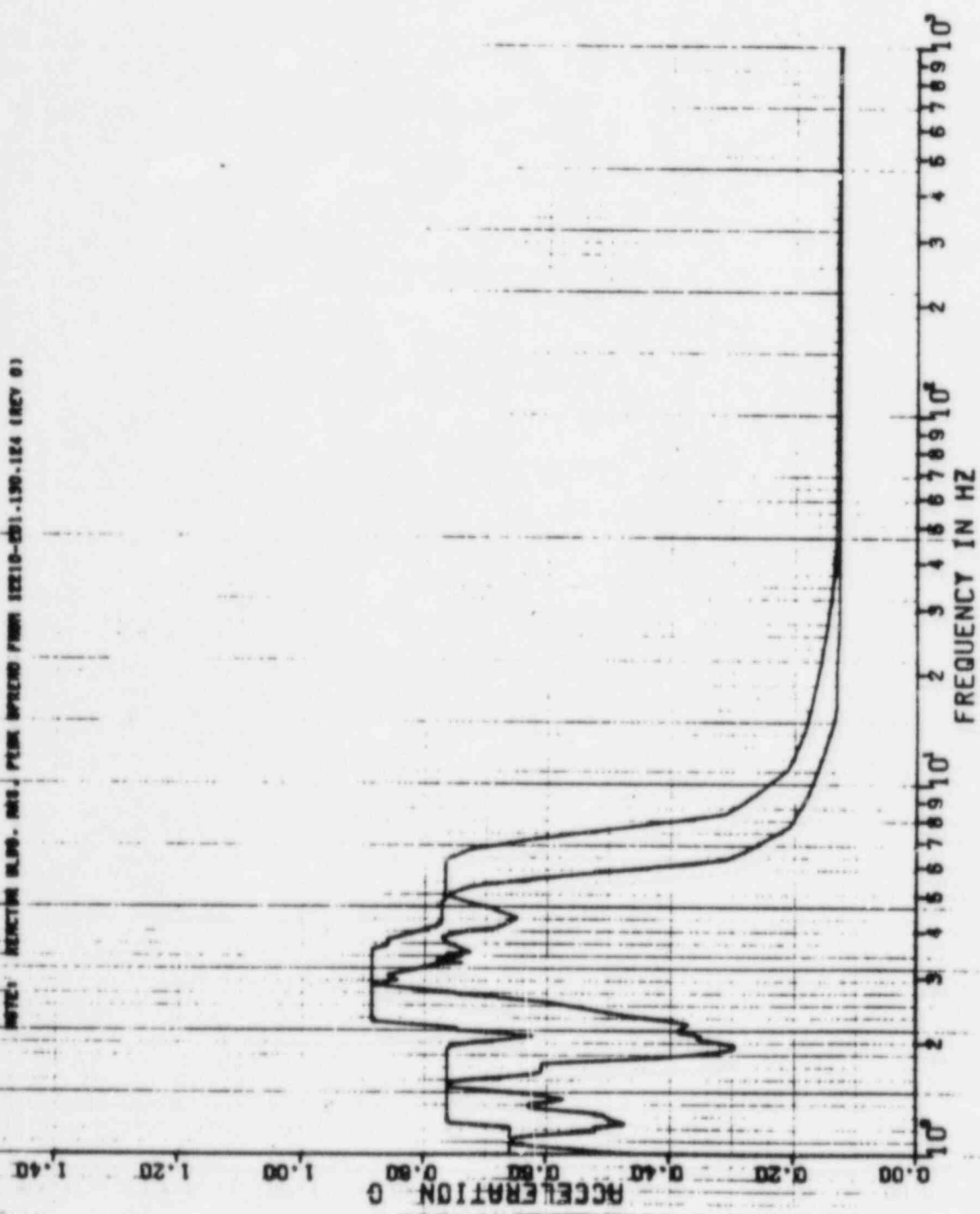
DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MN(C)-SSE-1903 REV(0)
 RMS OF ACC.-REACTOR BLDG-EL=96.000.MASS=10 SEIS MODEL-COMP.SMD.200
 PEAK SPREAD -20%+25%
 DISK CURVE SET NO.17

K.KAY

DAMPING VALUE = 0.020

0.5 SSE MOR DIRECTION

NOTE: REACTION BLDG. RMS. PEAK SPREAD FROM SEIS-201.130-124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-R06 UNIT 1-CALC12210-MM(C)-60E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-95.000.MAS5-10 SE16 MODEL-COMP.SMD.800
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.17

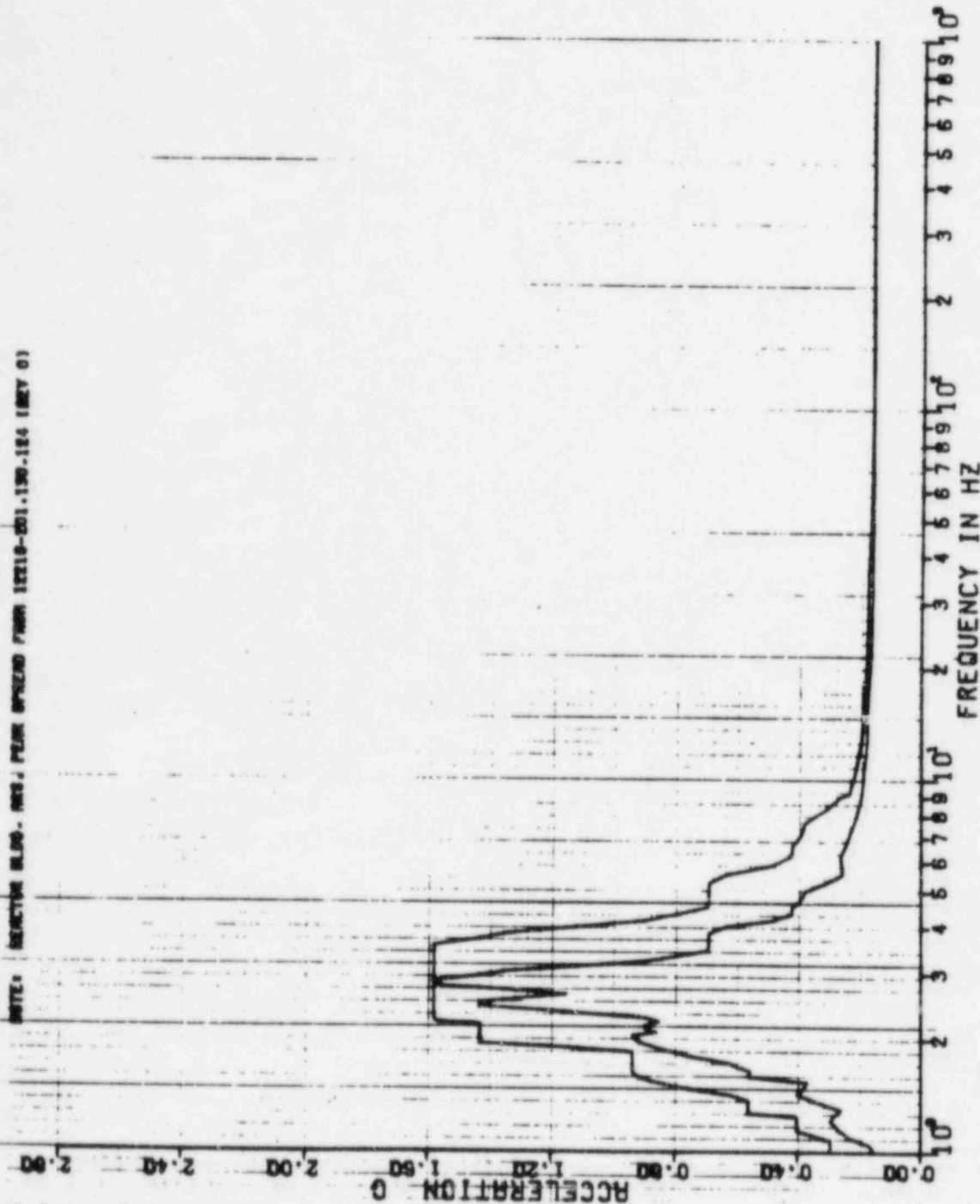
0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

K.KAY

NOTE: SENSITIVE BLDG. RRS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



PSPECIRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC(2210-NM(C))-59E-1903 REV(1)
RBS OF ACC.-REACTOR BLDG.-EL=85-000, MASS=10 SETS MODEL-COMP-SMD-800
PEAK SPREAD -20% +55%

DISK CURVE SET NO. 19

1.0 55E HDR DIRECTION

NOTE: REACTOR BLDG. RBS

PEAK SPREAD FROM (2218-001.130-184 18CY 0)

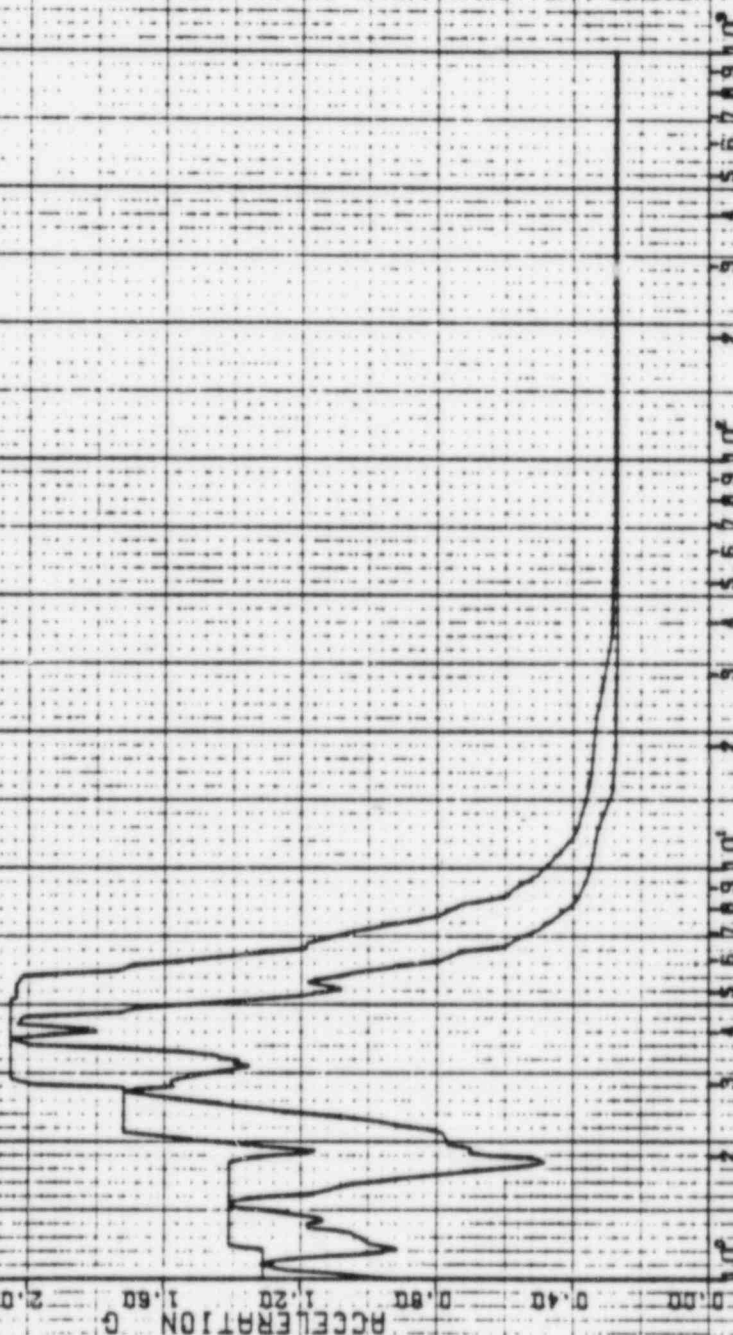
8 FEB 1983

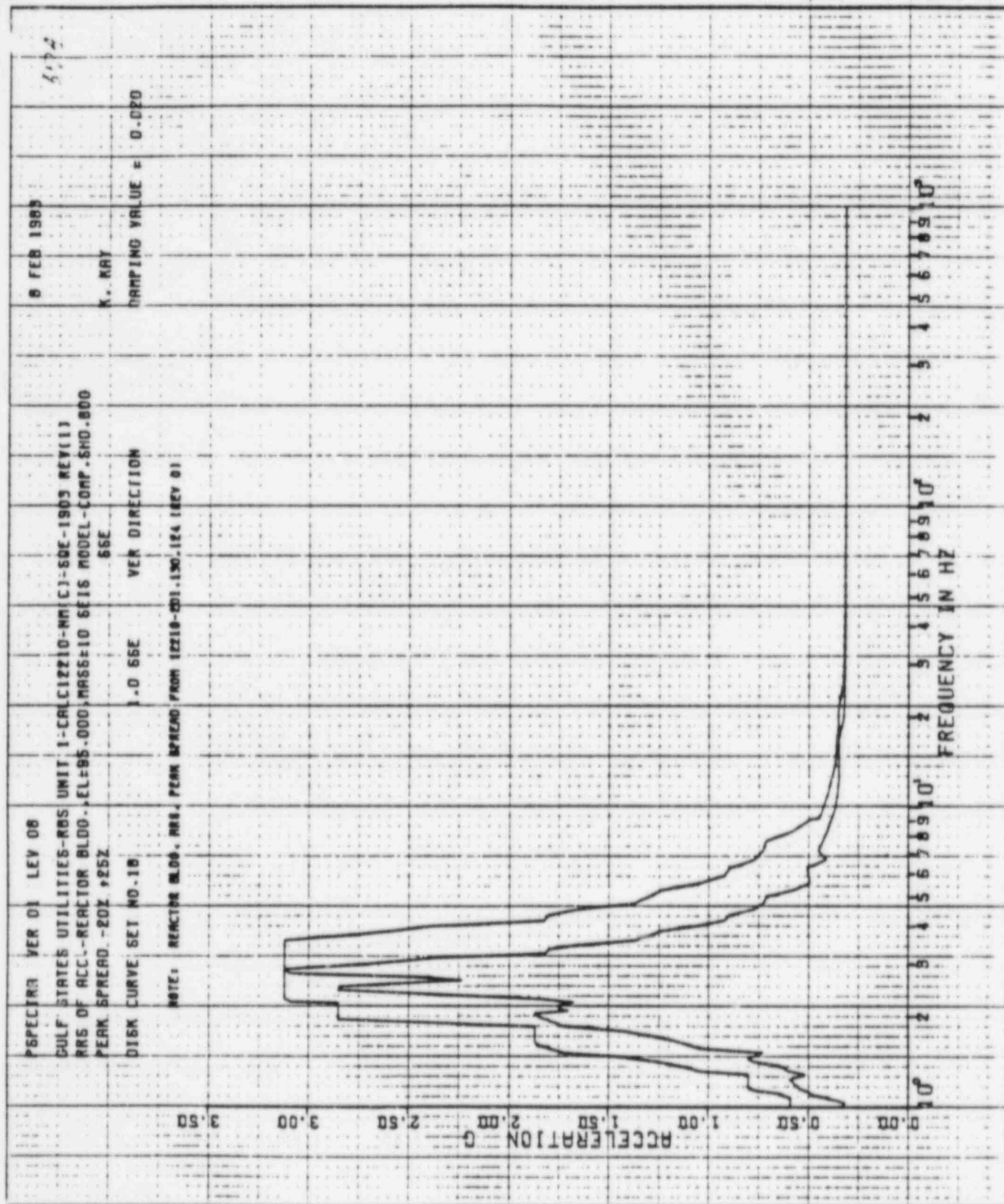
K. KRY

DAMPING VALUE = 0.020

ACCELERATION G

FREQUENCY IN HZ



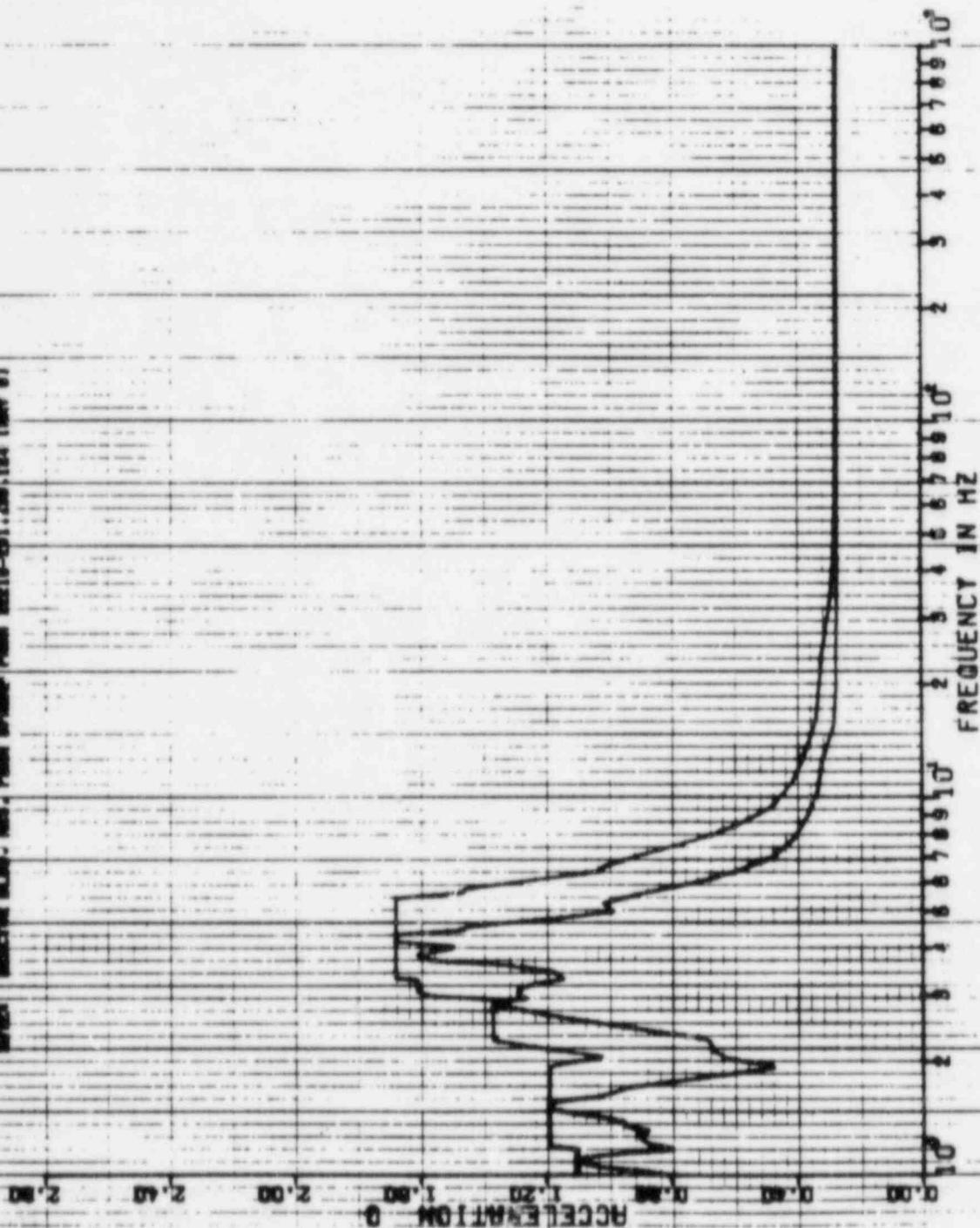


22 APR 1982

K-KAY

DAMPING VALUE = 0.050

PROPELLER VER 01 LEV 07
 GULF STATE UTILITIES-888 UNIT 1-CALC12210-WNICJ-882-1903 REV(0)
 RRS OF MCC-REACTOR BLDG. EL-86.000. MASS=10 SEIS MODEL-COMP-880 800
 PERK SPEED -201.25%
 DISK CURVE SET NO. 10
 1.0 GSE
 MOD OF REACTION
 REACTOR BLDG. MASS. FROM SPREAD (FROM 8818-201.250/124 (REV 0))



PAPECTRA VER 01 LEV 07

DULP STATE UTILITIES-RBS UNIT 1-CALC12210-RM(C)-SSE-1903 REV(0)
 RBS OF MCC-REACTOR BLDG-EL-86-000-NRBS-10 SEIS MODEL-COMP-SMD 800
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.18

1.0 SSE

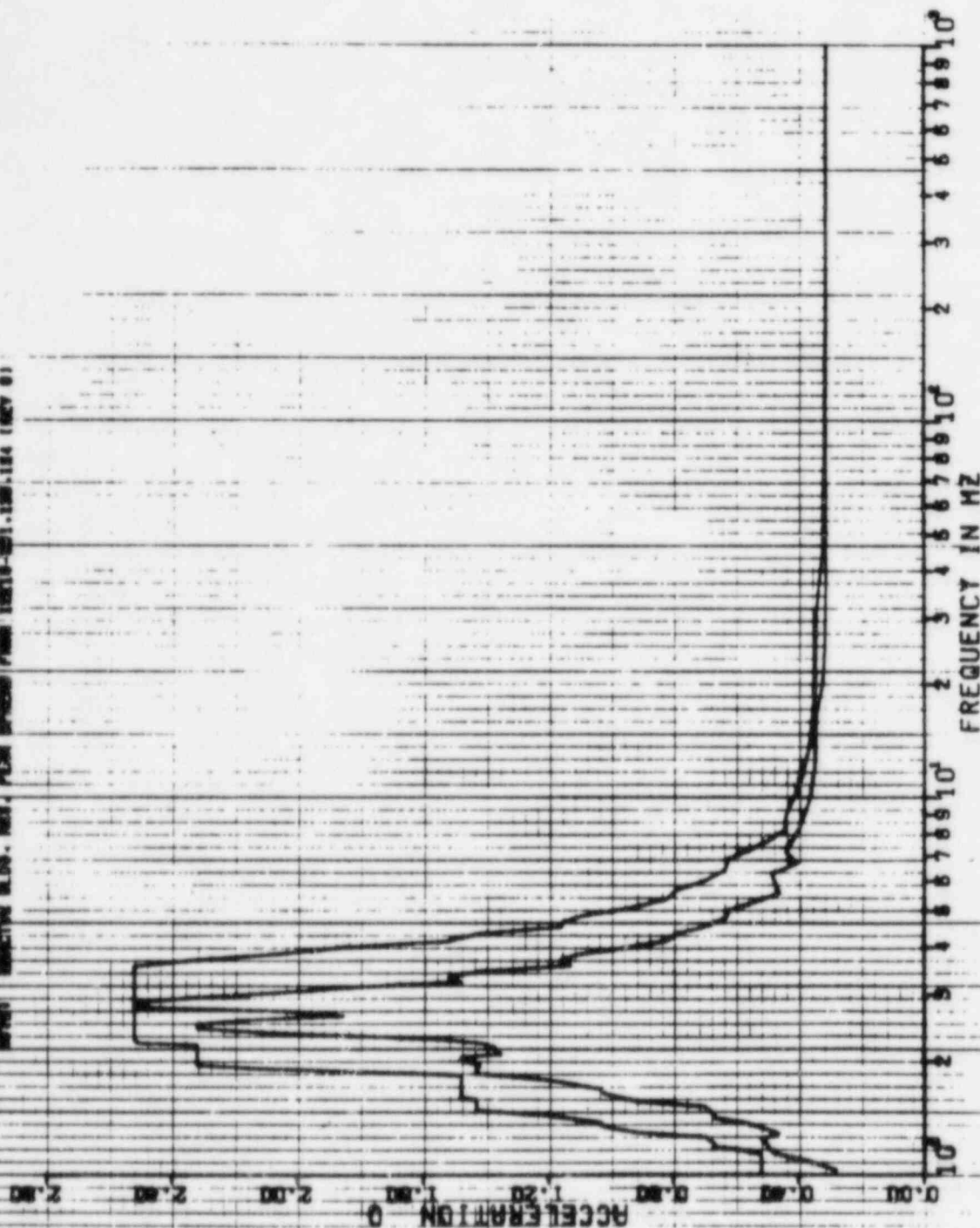
VER DIRECTION

REACTOR BLDG- NBS. PEAK SPREAD /RMS 10518-251.120.124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.030



PSPECTRA VER 01 LEV 01

COUR STATE UTILITIES-PBS UNIT 1-CR/02210-NH/01-SOE-1903-REV001
 PPS OF ACC-REACTOR BLOC .EL=95.000 .PASS=NO SEIS MODEL-COMP .SHD BOC
 FROM 080000-202-225

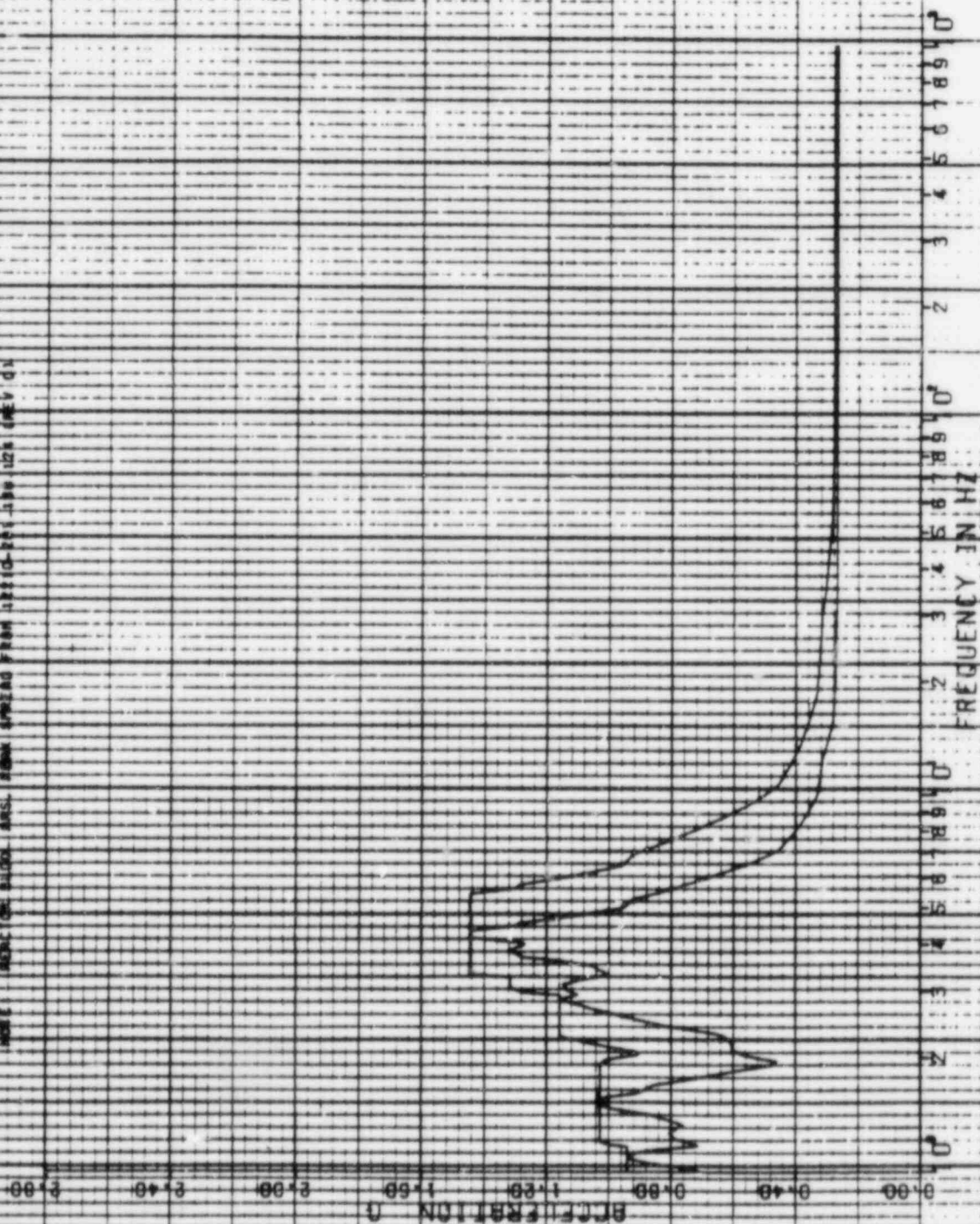
DISK CURVE SET NO 18

1.0 SSE

HOR DIRECTION

DAMPING VALUE = 0.040

NOTE: PEAK OF BLOC ARE FROM 080000-202-225 (REV 01)



12 APR 1982

A MAY

PSPECTRA VER 00 LEV 07

CULP STATE UTILITIES-RBS UNIT 1 - CALCULATED - NHTCJ-50E-1908 REV 103
 RRS OF ACC. RECTOR BLOC. EL=95.000. MASS=10 SEIS MODEL-COMP-540 BDC.
 PEAK SPREAD = 20% ± 25%
 SEE

DISK CURVE SET NO. 18

1-D 55E

VER DIRECTION

NOTE: HEADERS ALSO HAS PEAK SPREAD FROM 20% TO 14 INCH D)

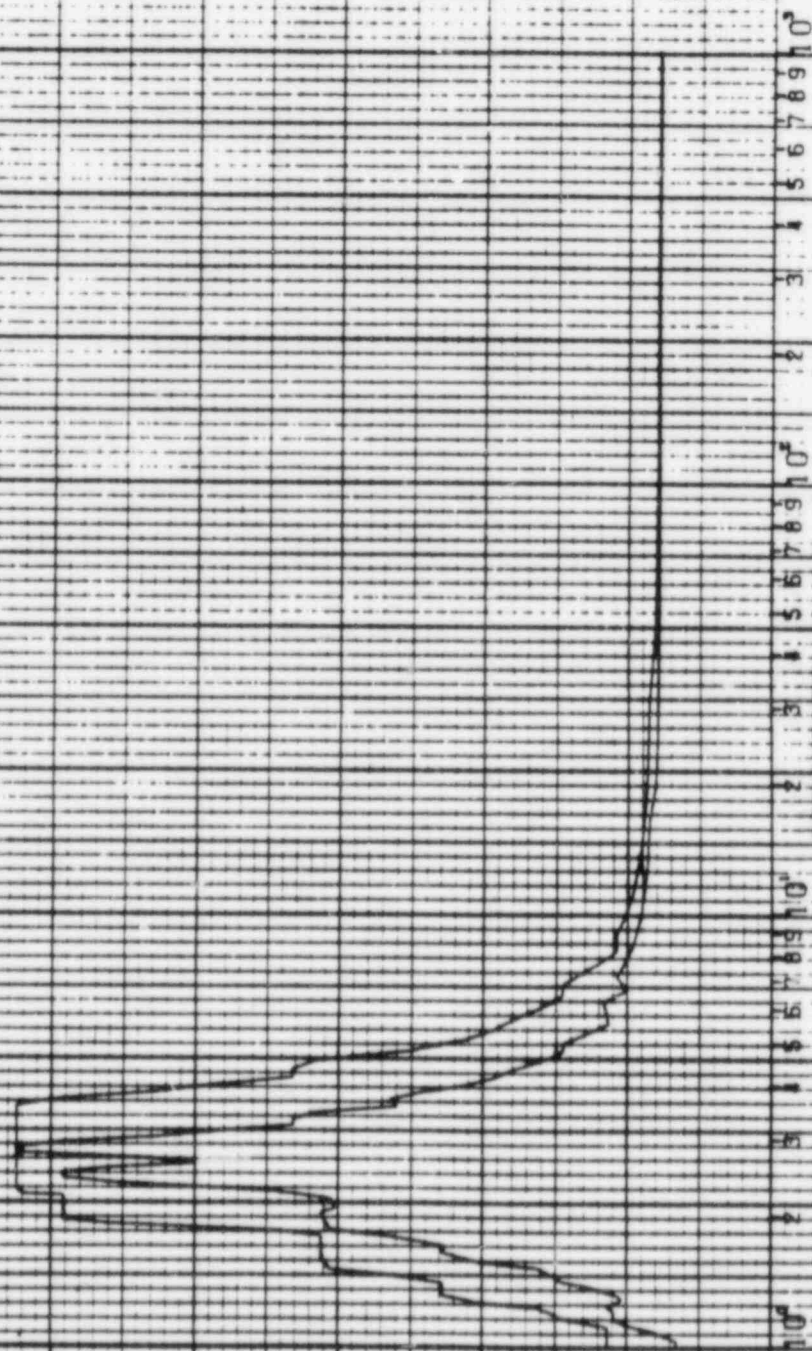
DAMPING VALUE = 0.040

22 APR 1982

K. KRY

119A

ACCELERATION 0 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80



FREQUENCY IN HZ 10^0 10^1 10^2 10^3

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-R86 UNIT 1-CALC12210-NM(C)-60E-1909 REV(0)
RMS OF ACC.-REACTOR BLDG.-EL-85.000, MASS=34 SEIS MODEL-COMP.SHD-BLDO
PEAK SPREAD -20%, +25%

DISK CURVE SET NO.65

0.5 SSE

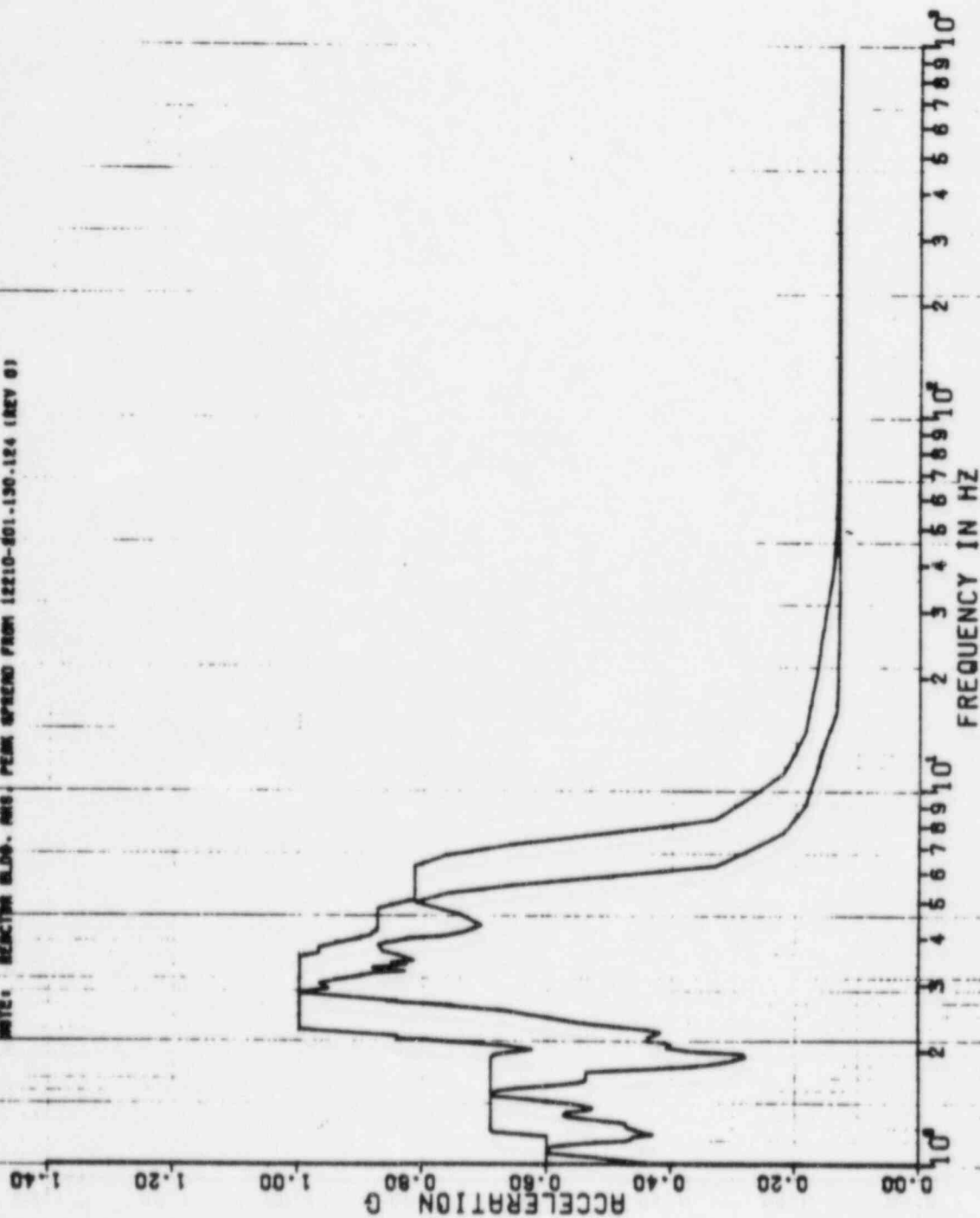
HOR DIRECTION

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-801.130.124 (REV 0)

22 APR 1982

K.NAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-60E-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.EL=85.000,MASS=94 SEIS MODEL-COMP.5HD.BLDG
PEAK SPREAD -20%+25% OBE

K.KAY

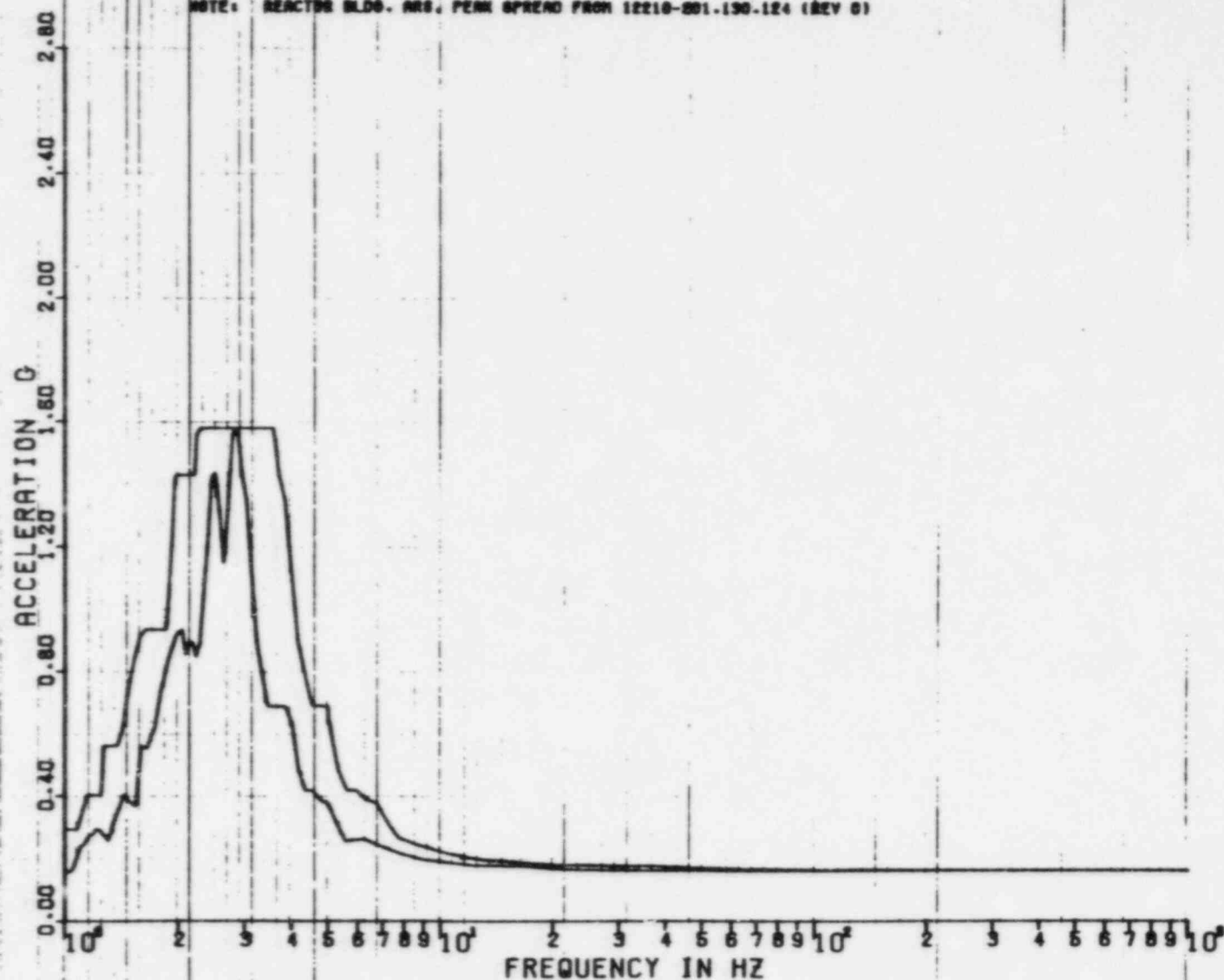
DISK CURVE SET NO.65

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. AHS. PEAK SPREAD FROM 12210-001.130.124 (REV 0)



164H

8 FEB 1985

K. KRY

DAMPING VALUE = 0.020

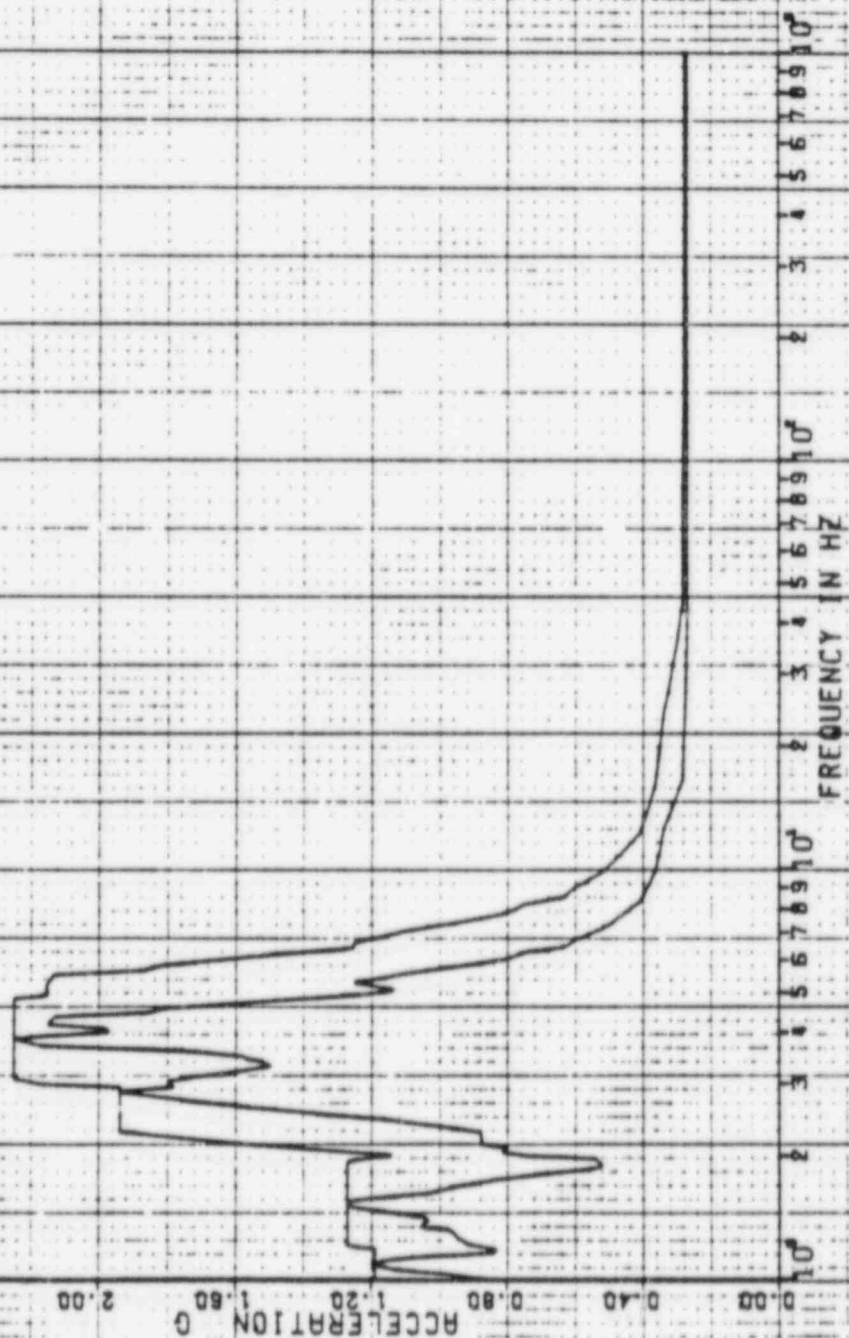
PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1CJ-SDE-1903 REV(1)
RBS OF ACC.-REACTOR BLDG. EL-85.000, MRS65-34 SE16 MODEL-COMP-SMD-BLDG
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.66

1.0 SSE

NOR DIRECTION

NOTE: REACTOR BLDG. AND PEAK SPREAD FROM 1210-001.130-184 (REV D)



6554

8 FEB 1965

K. KRY

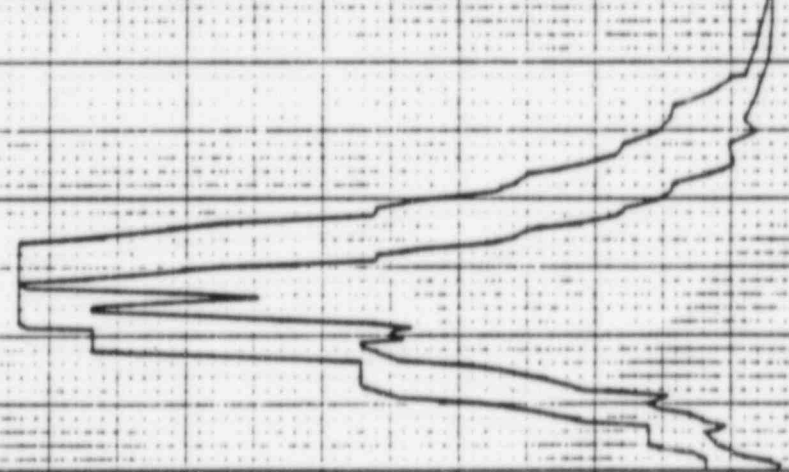
DAMPING VALUE = 0.020

UNIT 1-CALC12210-MNCT-50E-1905 REV111
 MRS OF ACC.-REACTOR BLDG., EL-85.000, MASS-34 SEIS MODEL-COMP-5NO-8.00
 PEAK SPEED -20Z, +25Z
 VER DIRECTION
 1.0 55E
 DISK CURVE SET NO. 55
 NOTE: REACTOR BLDG. MRS. PEAK SPEED FROM 12210-101.136.184 (REV 8)

PSPECTRA VER ON LEV 08

ACCELERATION

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM1C1-50E-1903 REV(0)
 RMS OF ACC.-REACTOR BLDG.-EL-85.000, MASS=94 SETS MODEL-COMP-SMD-BLDG
 PEAK SPREAD -20%+25Z
 SSE

DISK CURVE SET NO.86

1.0 SSE

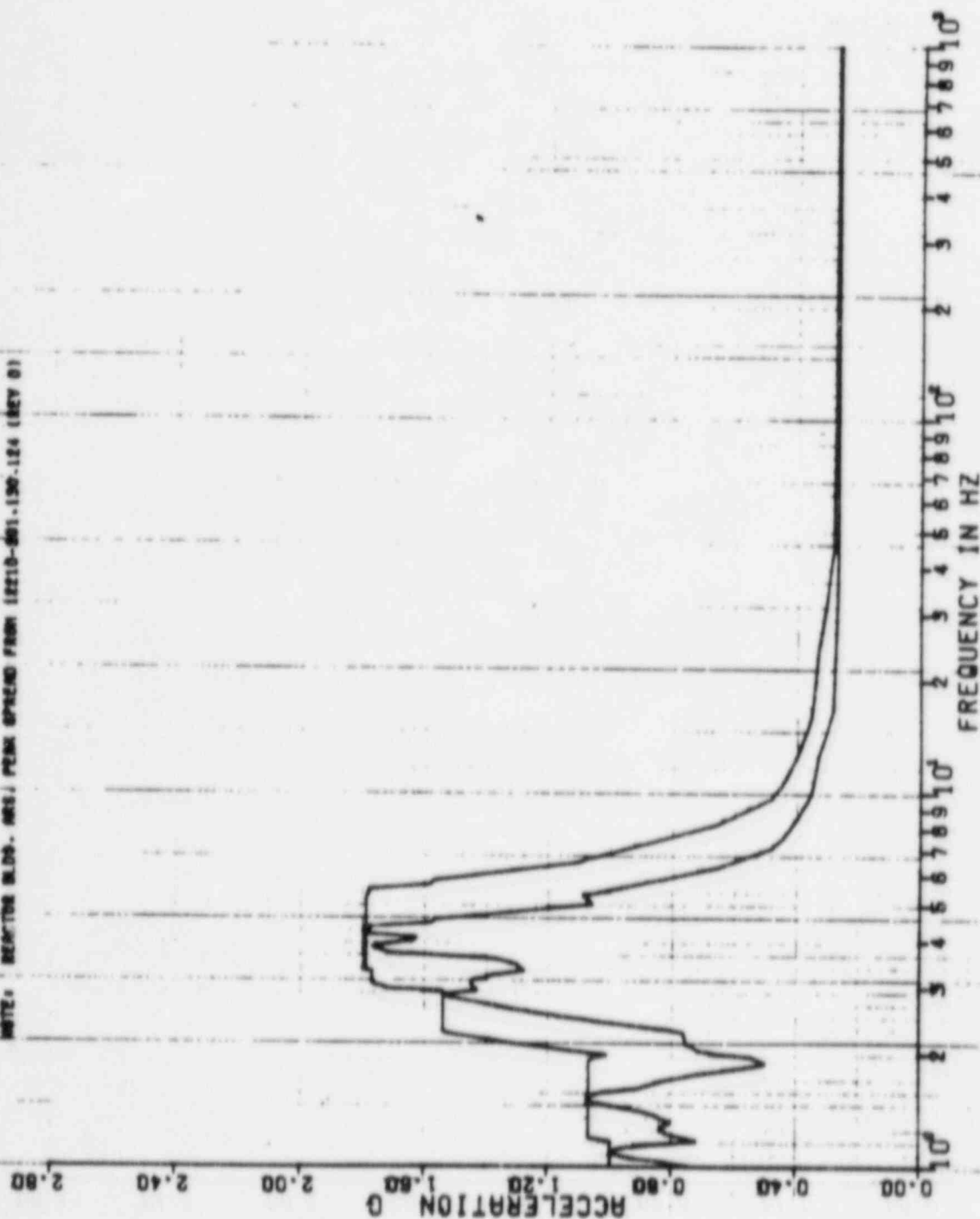
HOR DIRECTION

NOTE: REACTOR BLDG. MASS: PEAK SPREAD FROM 12210-001.130-124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.030



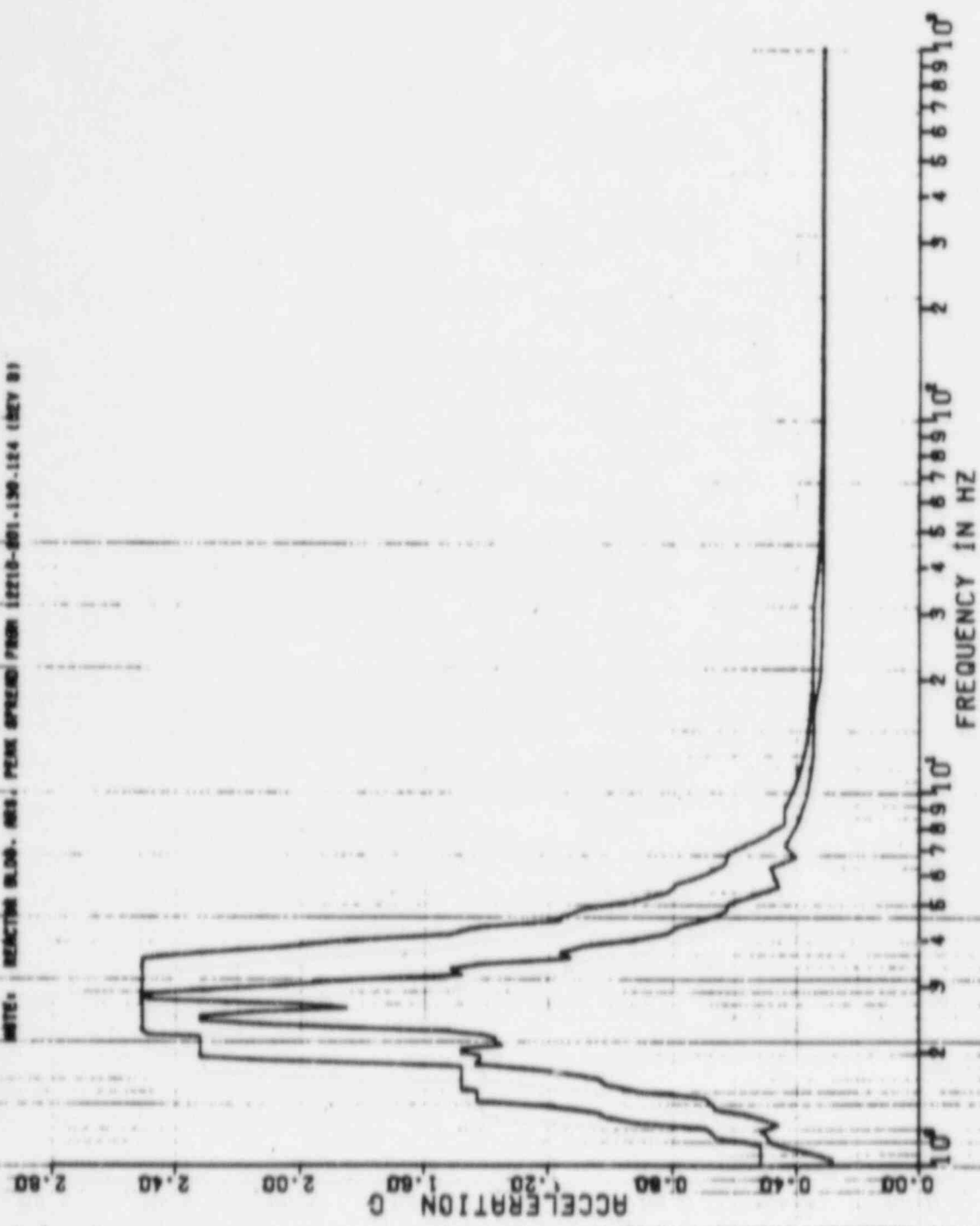
22 APR 1982

Adm.

K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 DULF STATE UTILITIES-RBS UNIT 1-CALC(12210-WMIC)-SQE-1903 REV(0)
 RBS OF ACC.-REACTOR BLDG. EL-85.000. MASS-34 SEIS MODEL-COMP. SMO. BLDG
 PEAK SPREAD -20%+25% SSE
 DISK CURVE SET NO. 66 1.0 SSE VER DIRECTION
 NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-801.130-124 (REV 8)



INSPECTED PER 01 LEV 07
 GULF STATE UTILITIES-RBS WB
 RBS OF ACC-REACTOR BLOC (L-RS 000 MASS-34 SE 5 MODEL-COMP, SMO-BLOC
 PERK SPREAD 1903.1957

DISK CORE SET NO. 66

NOTES: REACTOR BLOC - RBS - REACTOR MASSNO 1926 (L-RS 000) (L-RS 000) (L-RS 000)

1.0 SEE

HDR DIRECTION

SEE

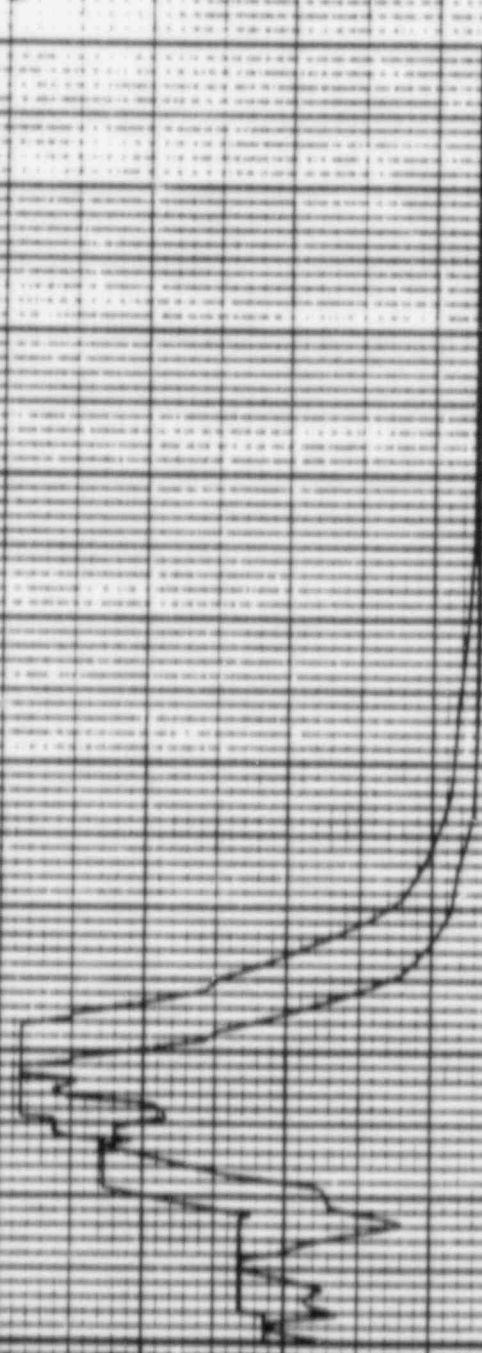
DRPPING VALUE = 0.000

22 APR 1987

1.0 KBY

REGENERATION 0 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00

FREQUENCY IN HZ



SPECTRA VER 01 LEY 07

PULF STATE UTILITIES-BBS 001 - CRETION 001 (3-50E-190) REV (0)
 BBS OF REC-REACTOR BLDG EL-85 000 BBS-14 SE 5 MODEL-CAMP SMO-BLNG
 PERE SPEND 1.00T 1.557

DISK CURVE SET 00.65

WREQ. MAXIMUM NLAM. 1445. HAZARD SPENDING FROM CRETION 001 (3-50E-190) REV (0)

1.0 SSE

VER DIRECTION

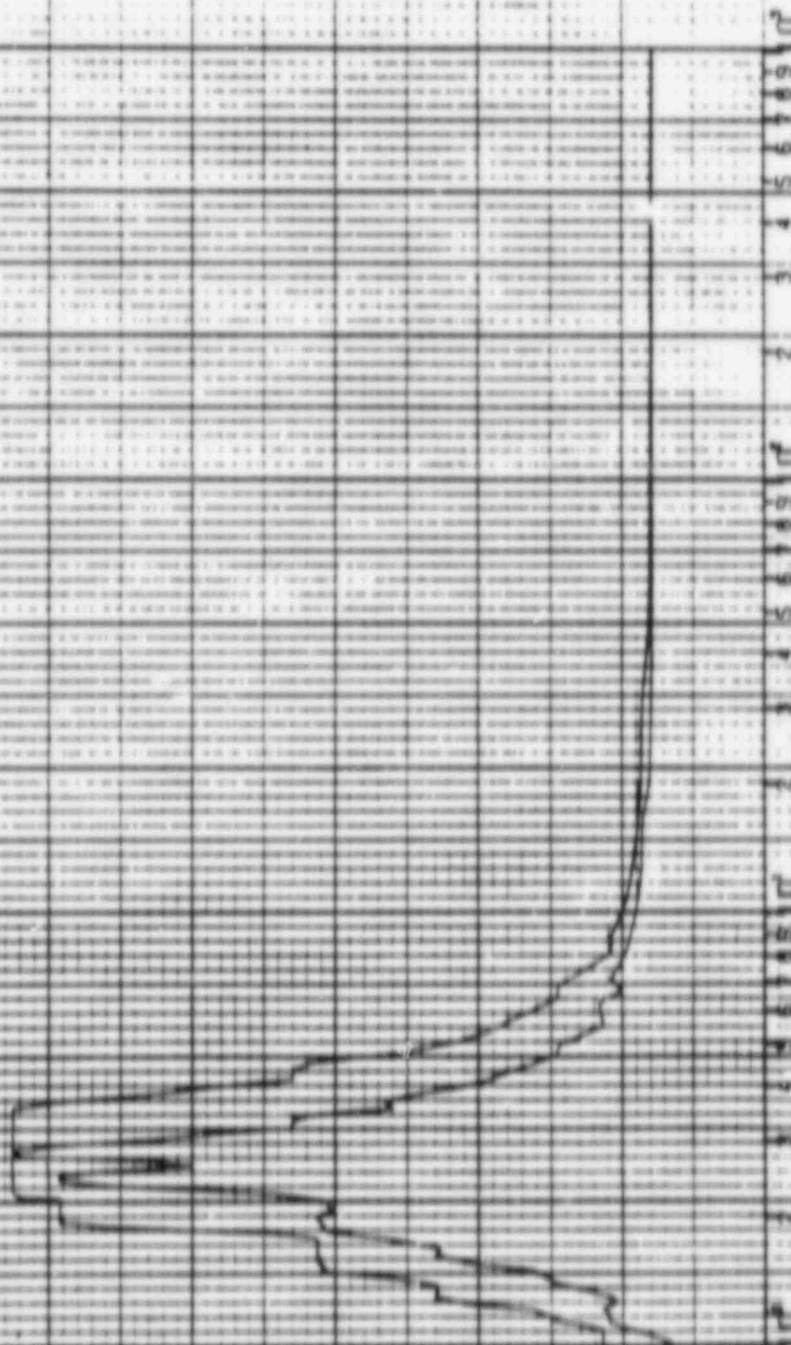
DAMPING VALUE = 0.050

12 APR 1982

K KRY

ACCELERATION

FREQUENCY IN HZ



PSPCTINA VER 01 LEV 07

GULF STATE UTILITIES-RHS UNIT 1-CALC12210-MHICJ-SSE-1903 REV(0)
RHS OF ACC.-REACTOR BLDG-EL-114-00.MHSS-11 SEIS MODEL-STEEL CONT.
PSEH SPREAD -E01,+E52

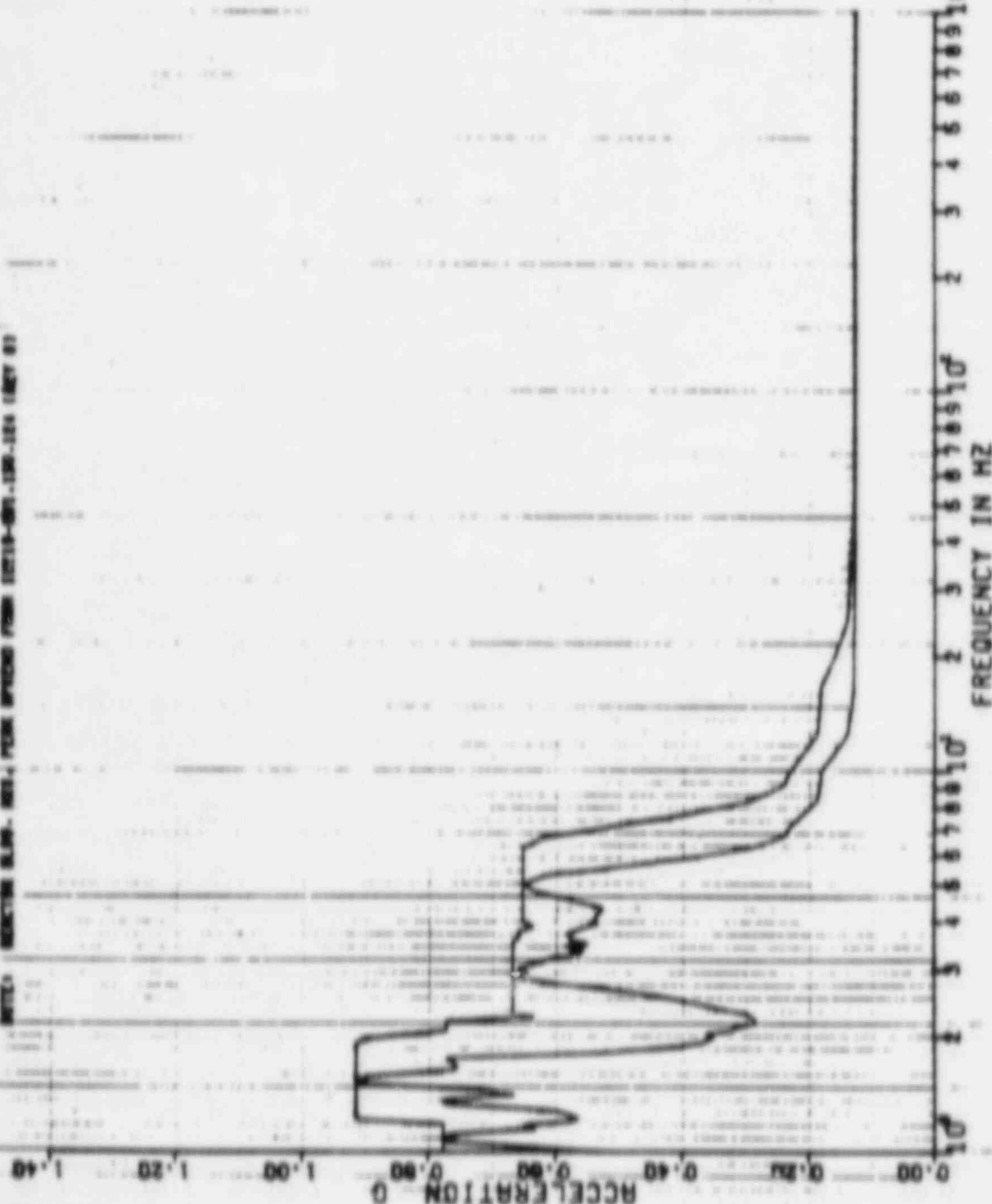
SEIS CURVE SET NO-119

0-5 SSE

NRD DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTION BLDG. RHS. PEAK SPREAD FROM SEIS-001-100-100 (REV 0)



22 APR 1982

R. KIST

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0
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E

SPECTRA VER 01 LEY 07

GULF STATE UTILITIES-RBS UNIT 1-CALC18210-WHIC3-80E-1903 REV101
 RES OF ACC.-REACTOR BLDG-EL-114-00-WHSS-11 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -852.452

DISK CURVE SET NO-18

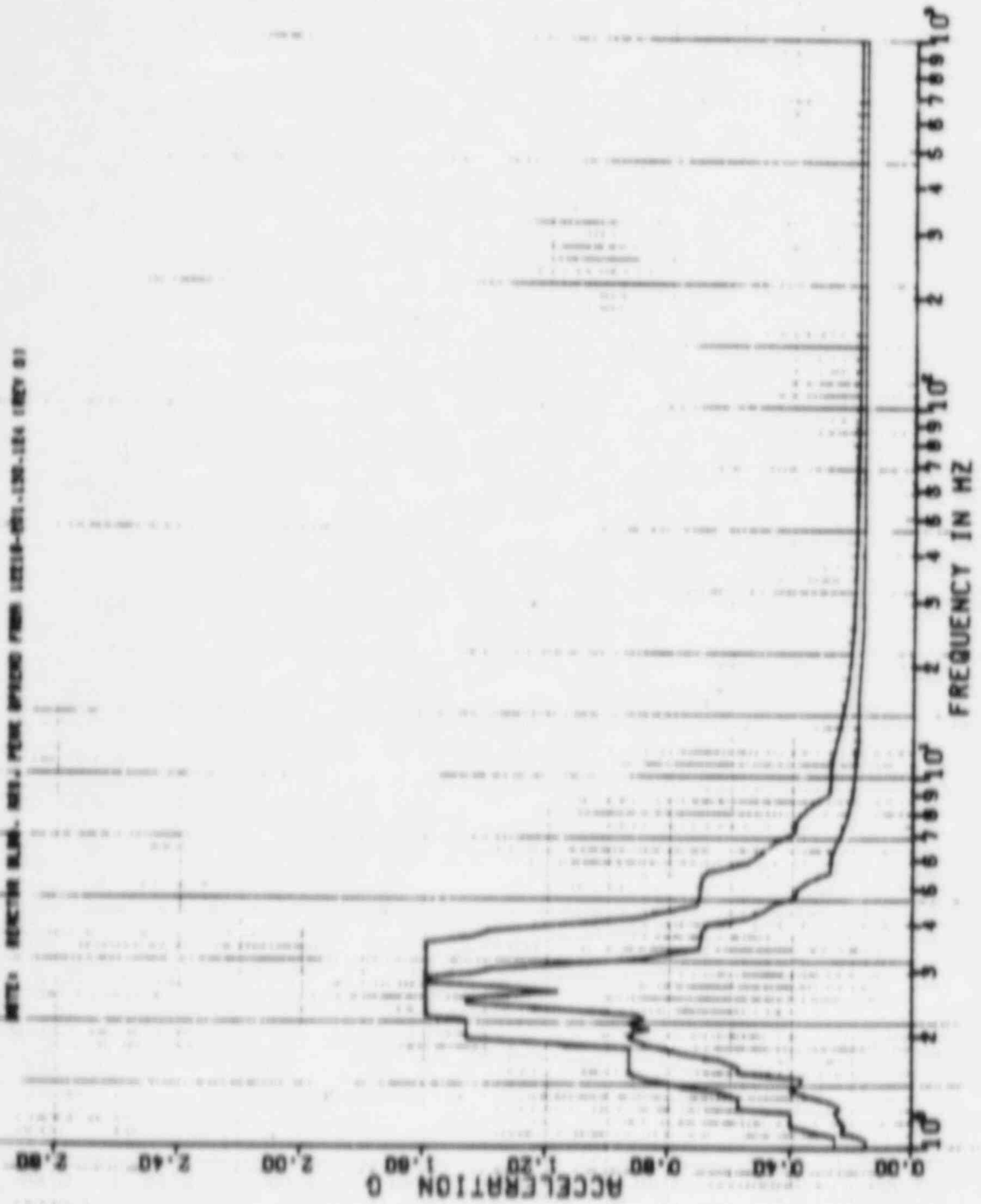
0.5 SSE VER DIRECTION

NOTE: REACTION BLK. RES. PEAK SPREAD FROM 18210-001-130-184 (REV 01)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



6-3-8

8 FEB 1963

K. KRY

DAMPING VALUE = 0.020

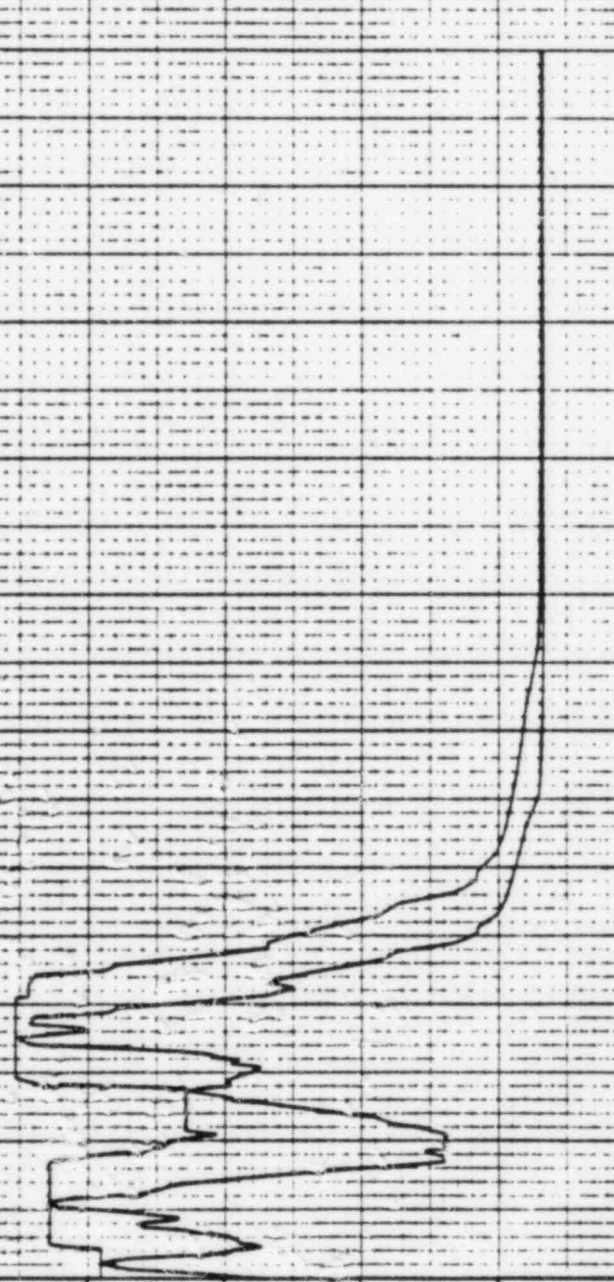
PSPECERR VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CALC12210-WH(C)-SDE-1903 REV111
RMS OF ACC.-REACTOR BLDG. EL=114.00, MASS=11 SE16 MODEL-STEEL CONT
PERK SPREAD -20% +25%
SEE

DISK CURVE SET NO.20
1-D SEE
NOR DIRECTION

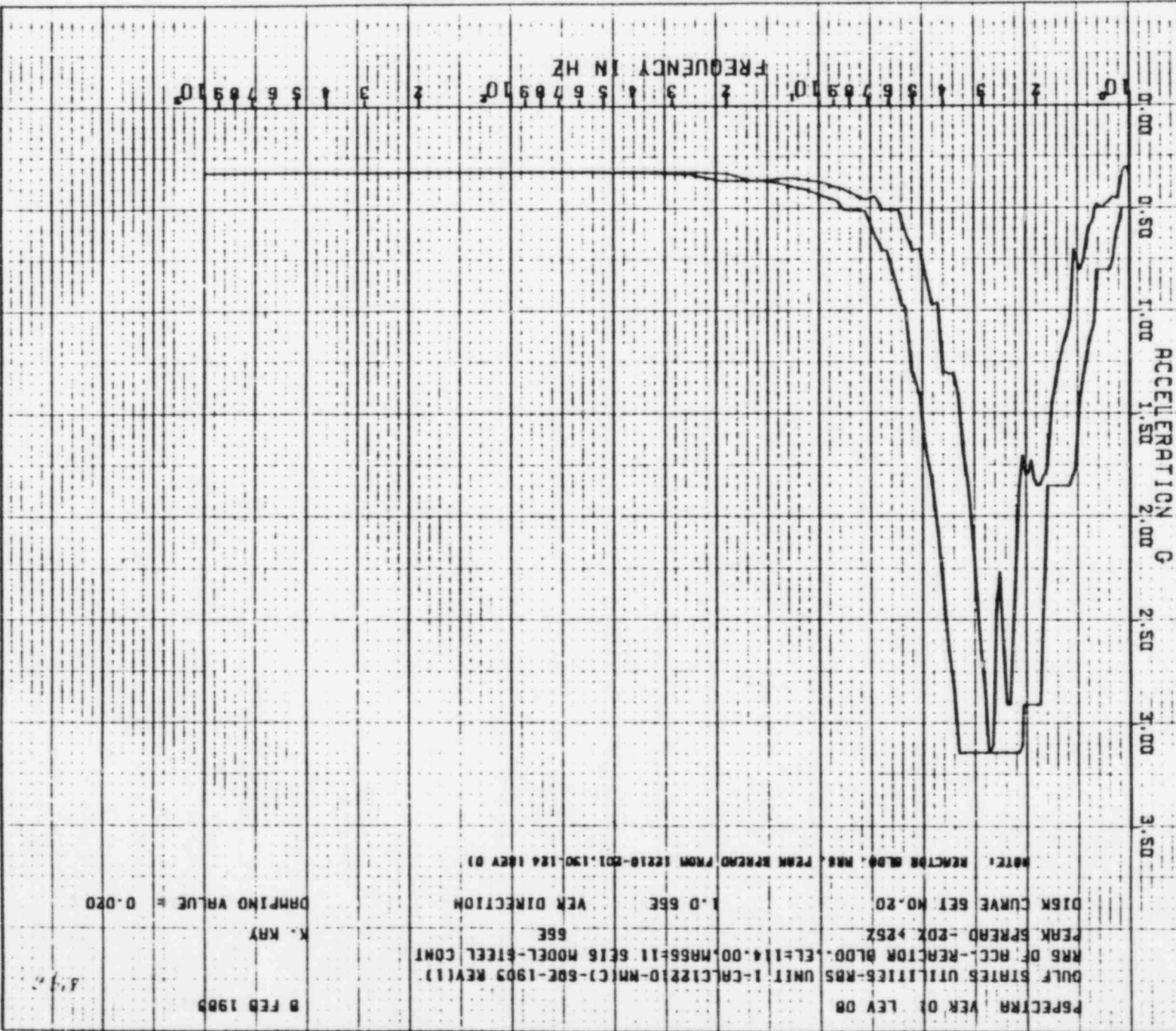
NOTE: REACTOR BLDG. RMS. PEAK SPACED FROM 12X10-201.150.184 (REV 8)

ACCELERATION G

FREQUENCY IN HZ



REF 80



DAMPING VALUE = 0.020

K. KAY

8 FEB 1983

SPECTRA VER 01 LEV 08
 DULF STATES UTILITIES-RBS UNIT 1-CALC12210-WMIC-602-1903 REV11
 RBS OF ACC-REACTOR BLDG. EL=114.00, WBS=11 6116 MODEL-STEEL CONT
 PEAK SPREAD -20X +25Z
 DISK CURVE SET NO.20
 1.0 65E
 VER DIRECTION
 65E
 NOTE: REACTOR BLDG. WAS PEAK SPREAD FROM 12210-201.130.124 18CY 01

REF 80

СЕРИЯ 01 127 07

UNIT STATE UTILITIES-PDS UNIT 1-CALC1210-MH(C)-592-1909 REV(0).
RWS OF REC-REACTOR BLDG-EL-11.00.MASS=1 SEIS MODEL-STEEL CONT.
ENR SPEED -20K+25% SEE

DISK CURVE SET NO. 20

1-800-555-0100

FOR DIRECTION

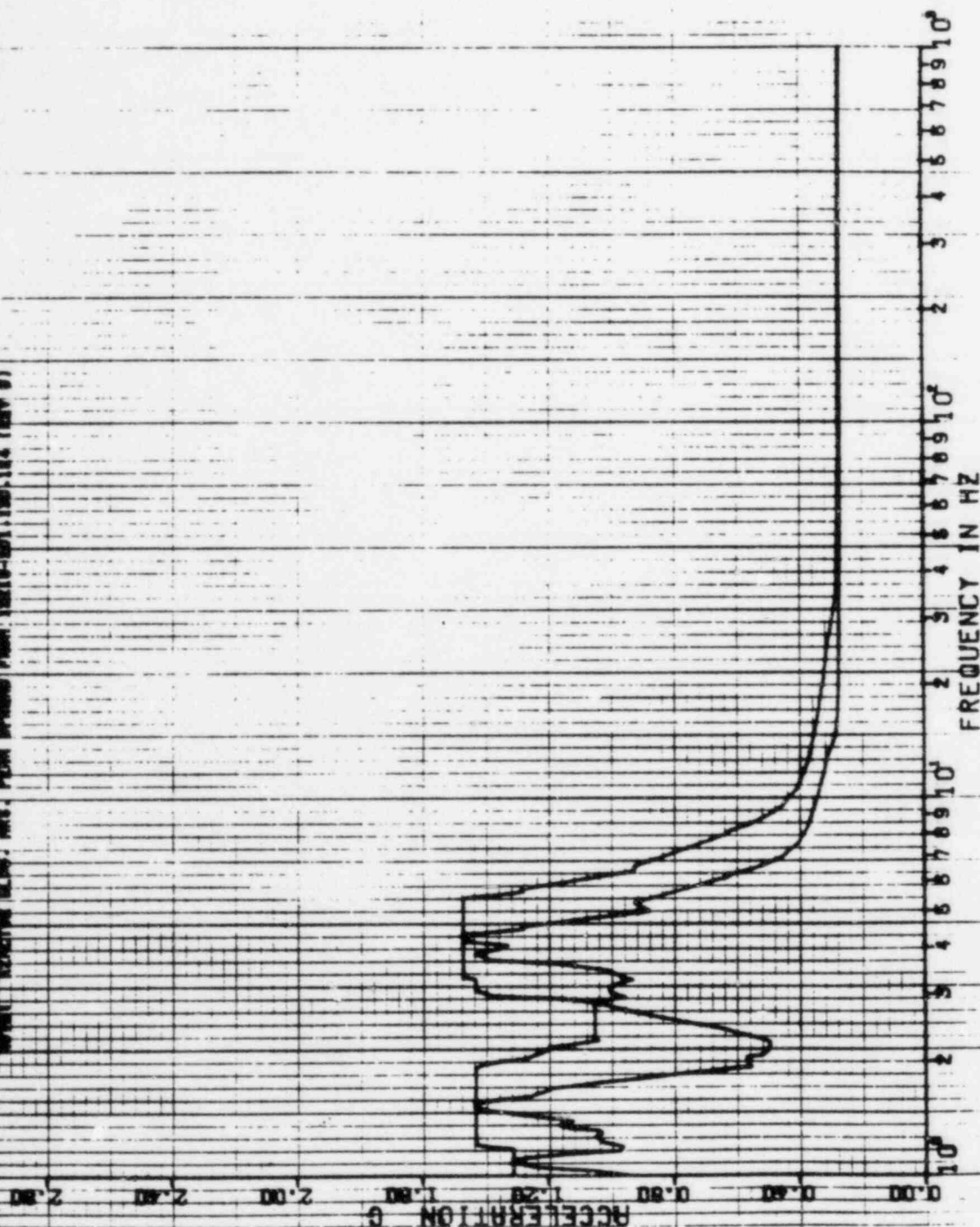
（一）本行在國內外設有分行及代理店，辦理一切銀行業務。

22 APR 1982

359 A

K-KAY

BUMPING VALUE = 0.030



PSPECTR VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-595-1903 REV(0)
RBS OF REC.-REACTOR BLDG. EL=114.00. MASS=11 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20% +25%

DISK CURVE SET NO.20

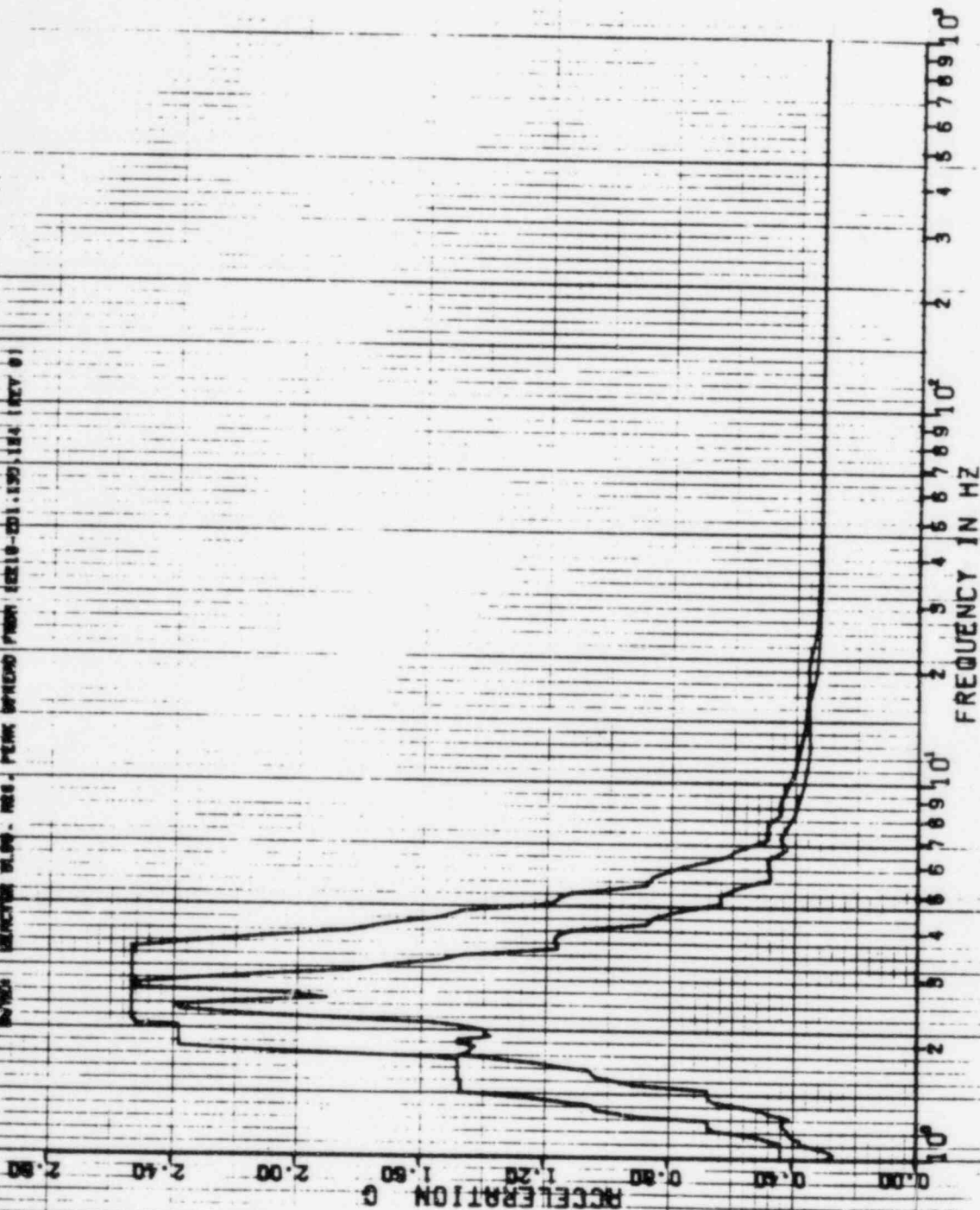
1.0 65E VER DIRECTION

NOTES: REACTOR BLDG. MASS. PEAK SPREAD FROM (2210-201.130) 134 (REV 0)

K-KAY

DAMPING VALUE = 0.050

22 APR 1982



4-11

22 APR 1982

KARY

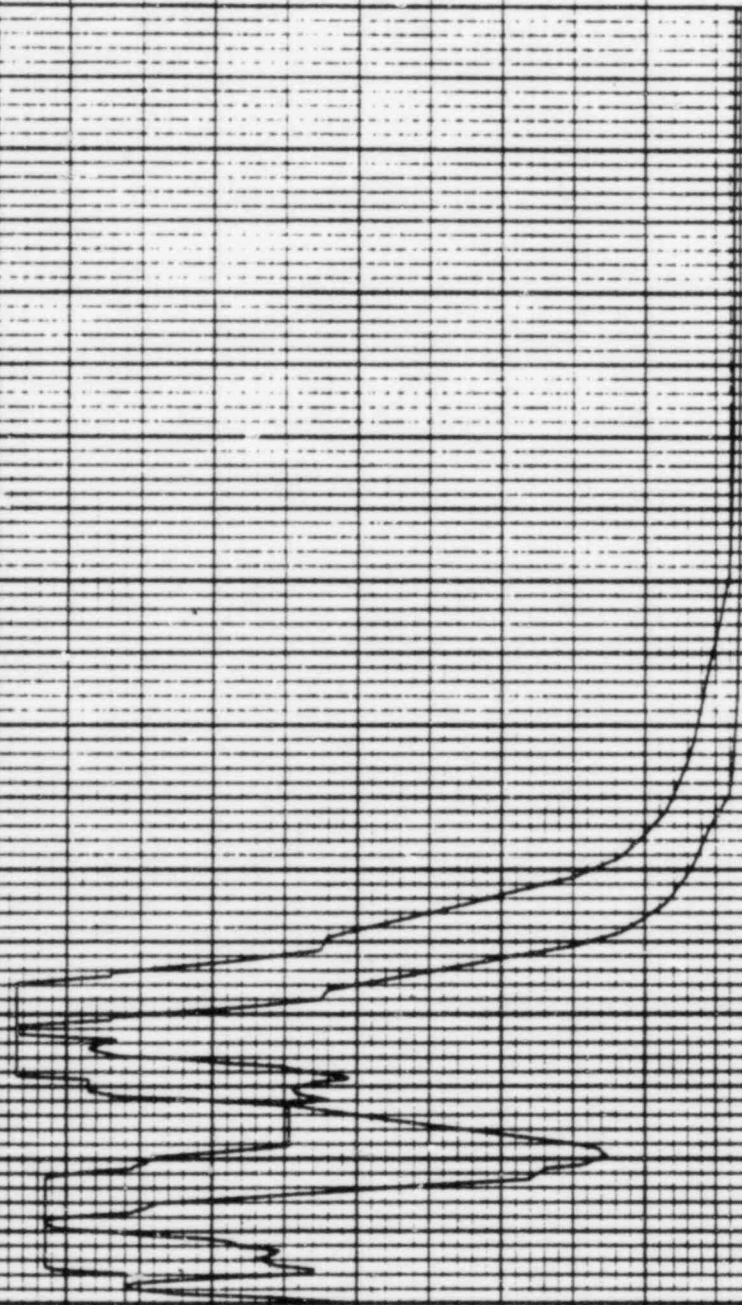
DAMPING VALUE = 0.040

PSPECTRA VER DI LEV D7
 GULF STATE UTILITIES-RBS UNIT 1-CHL12210-NM11-501-1908 REV 03
 RRS OF RCL-REACTOR BLDG. ELEV 118.00. MASS 11.5E15 MODEL-STEEL CONT.
 PERK SPREAD 1.20Z. 1.25V

DISK CURVE SET NO. 20

NOTE: REACTOR M.D. RBS PEAK SPEED FROM 125.0-300 (50.14 IN/SEC)

ACCELERATION G



FREQUENCY IN HZ

9.9

22 APR 1982

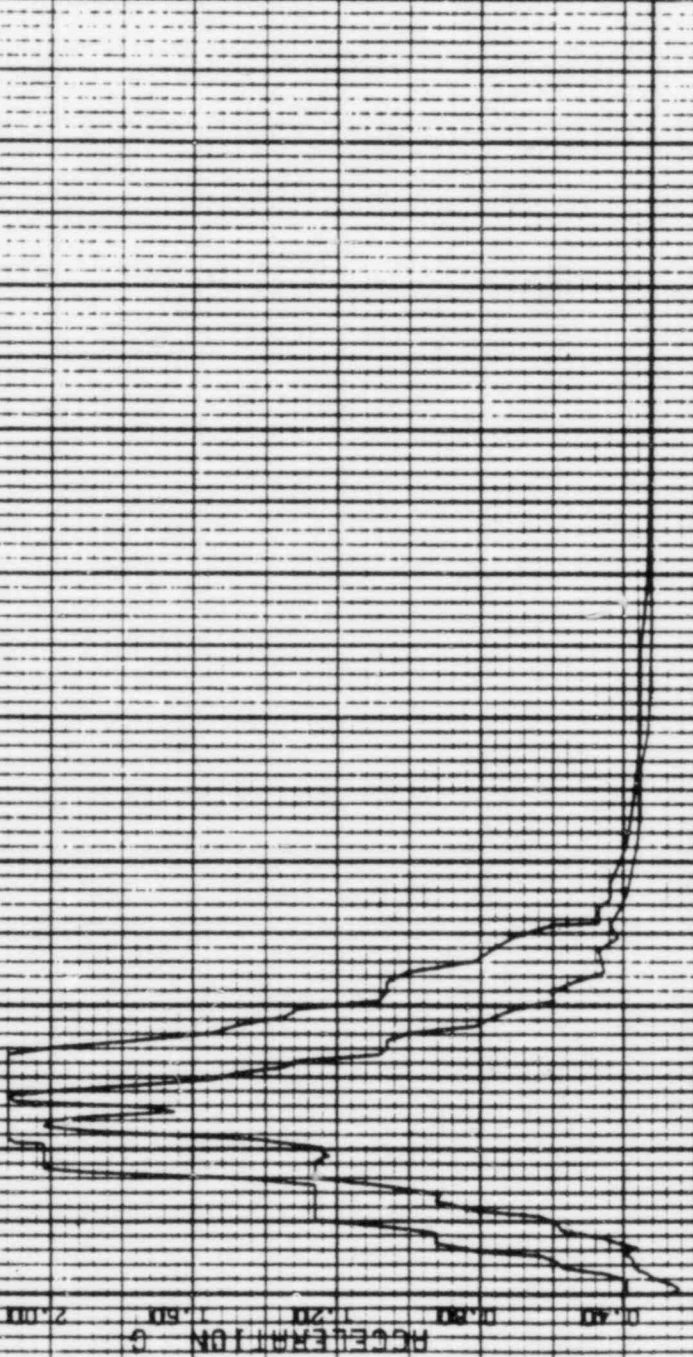
K. KAY

DAMPING VALUE = 0.000

PSPECTRA VER D1 LEV D7
GULF STATE UTILITIES-RBS UNIT 1-CAL-12210-NHLY-50E-1908 REV D)
RBS OF REACTOR BLDG-EL-114-00-MASSE-11 5E15 MODEL-STEEL CONT.
PEAK SPEED 1.20V-25V

DISK CURVE SET NO. 20
1. D 55E VER DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPEED (FROM 12210-50E) (50.14 100V D)



10⁰ 10¹ 10² 10³
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RAS UNIT 1-CALC12210-NMIC)-8QE-1903 REV(0)
RAS OF ACC-REACTOR BLDG-EL=133.00, MASS=12 SETS MODEL-STEEL CONT.
PEAK SPREAD -20%, +26% DBE

DISK CURVE SET NO.21

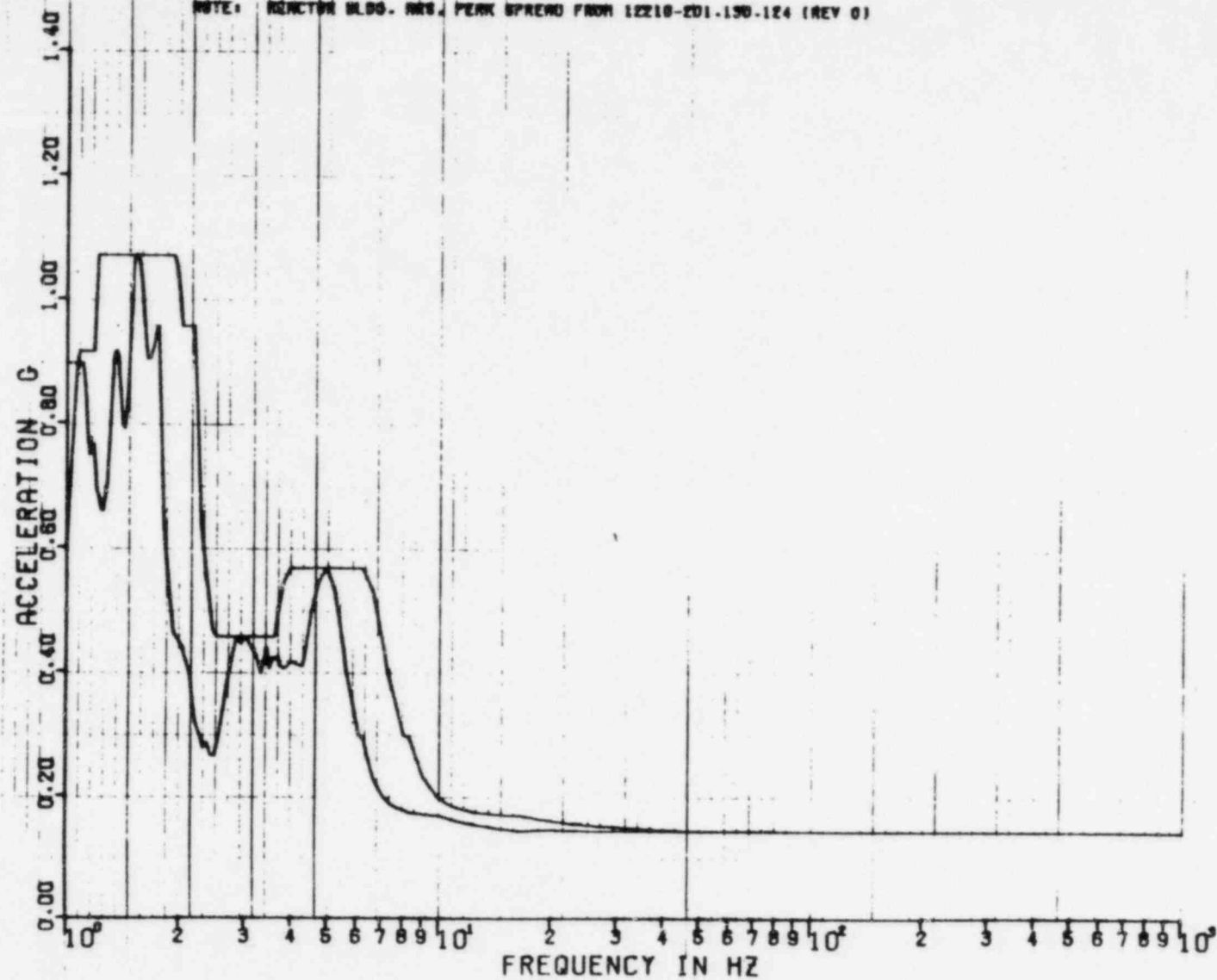
0.5 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RAS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 81

PSPECTRA VER 01 LEV 07

22 APR 1982

20. A

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG. EL=133.00.MASS=12 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20%.+25% OBE

K.KAY

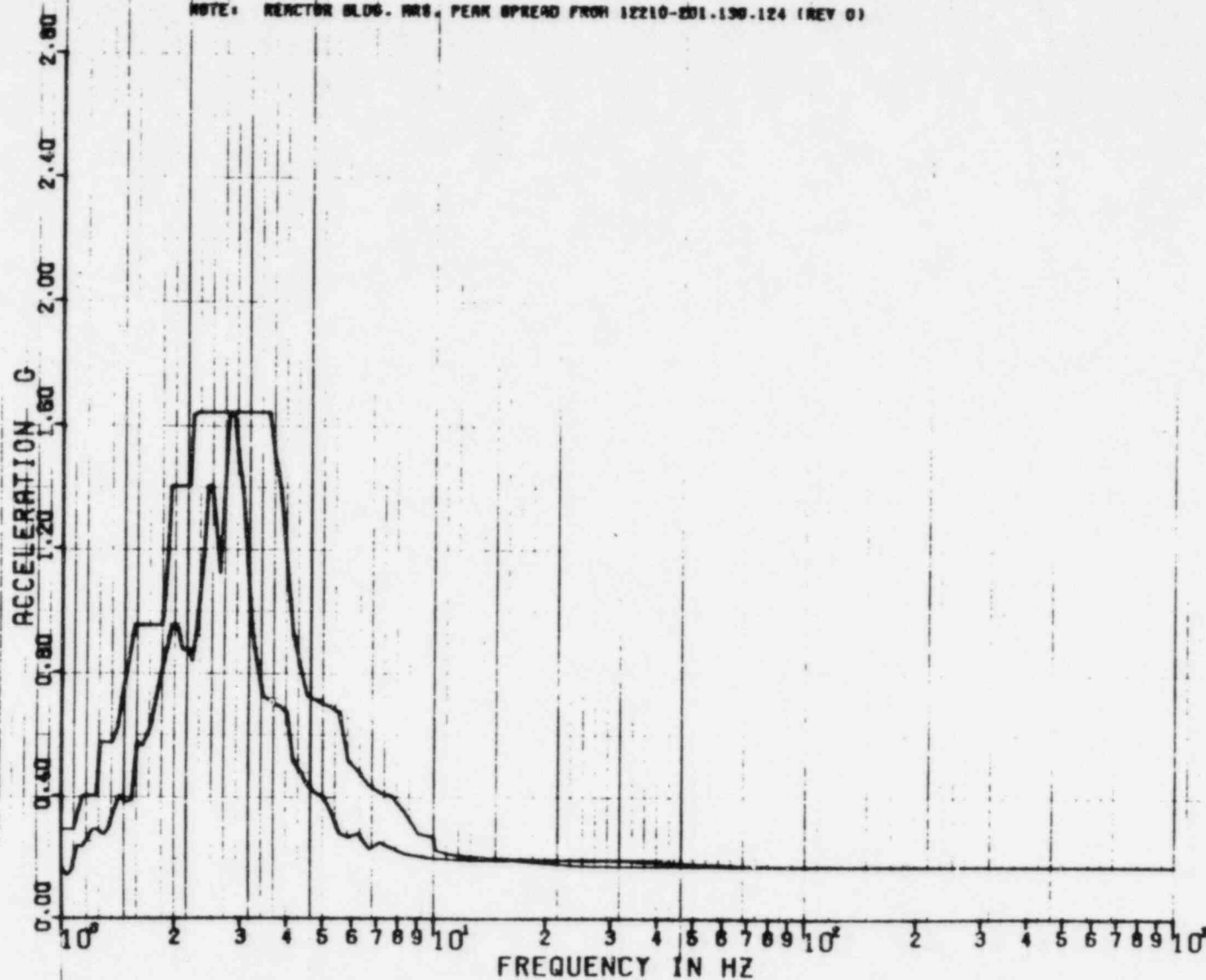
DISK CURVE SET NO.21

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 12210-201.190-124 (REV 0)



8 FEB 1983

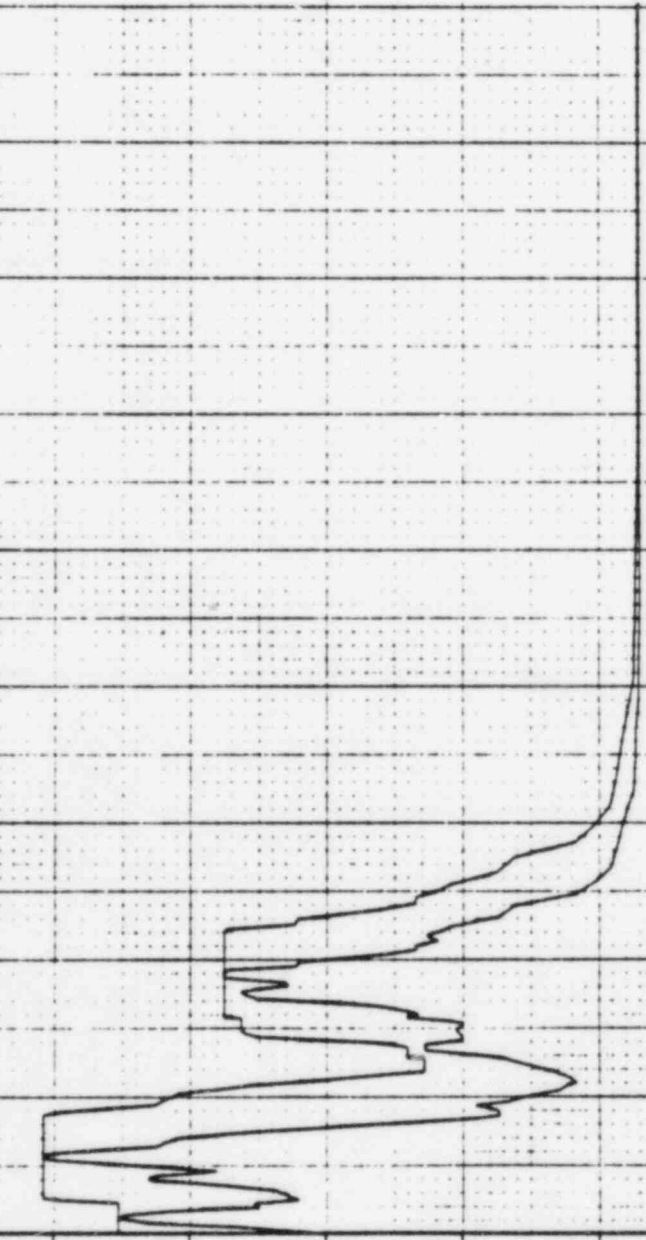
K. KAY

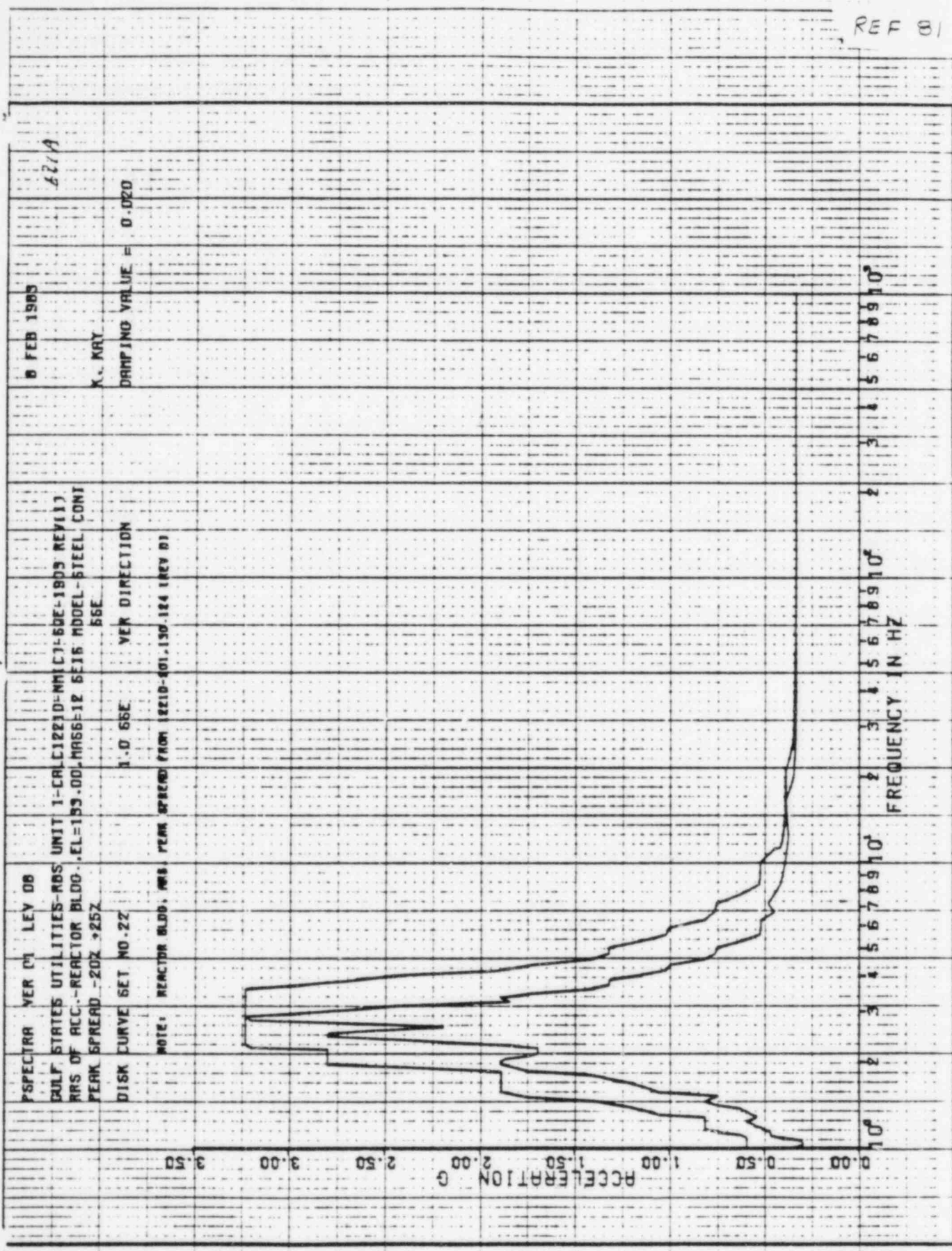
DAMPING VALUE = 0.020

PSPECTRA VER 03 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C1)-SDE-19D3 REV(1)
 RRS OF ACC.-REACTOR BLDG. EL=193.00, MASS=12 5E16 MODEL-STEEL CONT
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO.22
 1.0 56E HOR DIRECTION
 NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-501.130.124 (REV D)

ACCELERATION G

FREQUENCY IN HZ





SPECTRA VER 01 LEV 07

DOLF STATE UTILITIES-RBB UNIT 1-CALC12210-WH(C)-SWE-1903 REV(0)
 NRS OF RCC-REACTOR BLDG-EL=139.00.MASS=12 SEIS MODEL-STEEL CONT.
 PERK SPEND -20%+25%

DICK CURVE SET NO.22

1.0 SSE HOR DIRECTION

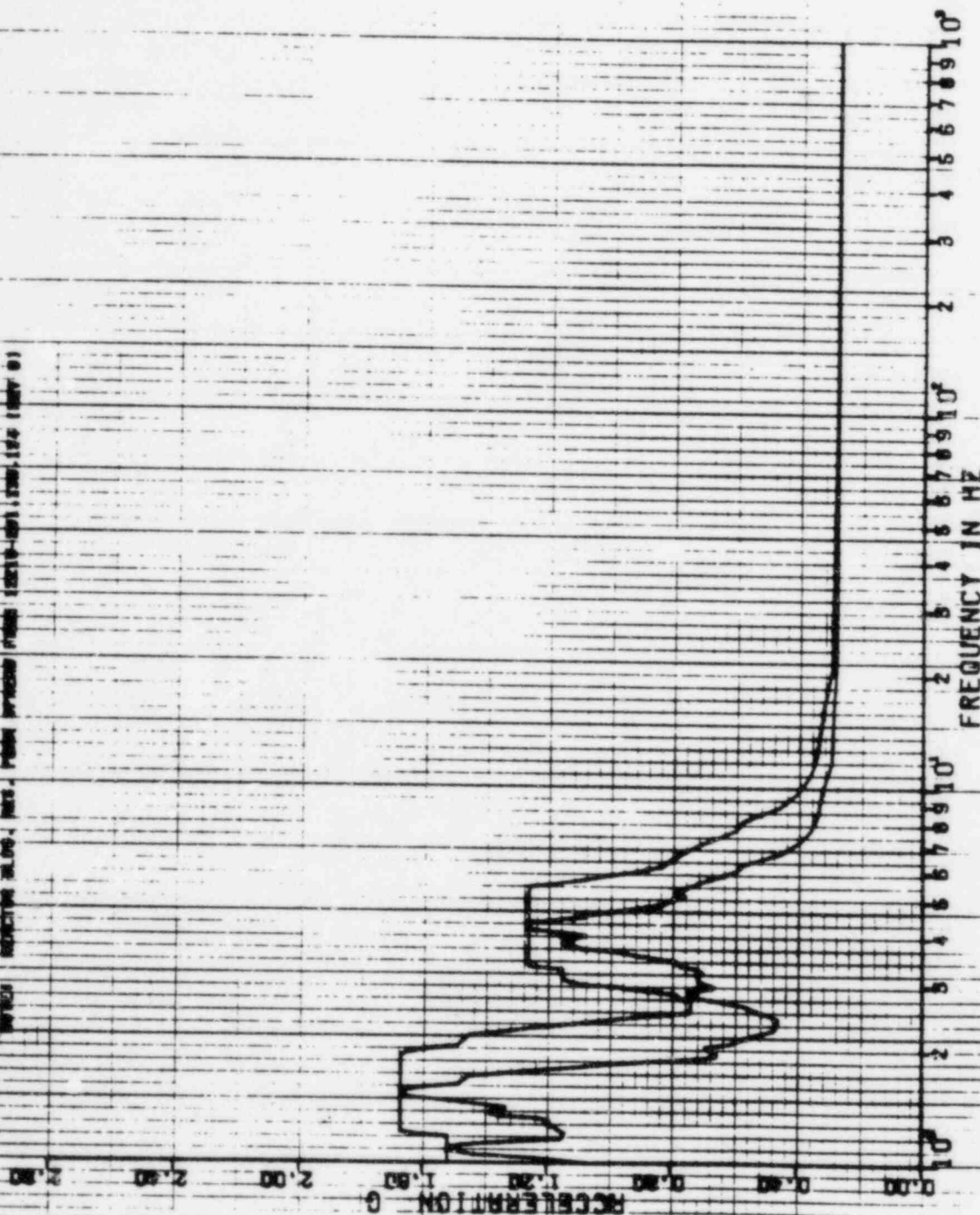
WINDS DIRECTED ALONG NRS. FROM WINDS FROM (SE10-120) 120% 12% (REV 0)

22 APR 1982

356 A

K-KAY

DAMPING VALUE = 0.030



PSPECTRA VER 01 LEV 07

22 APR 1982

3.1A

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SSE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG-EL=139.00,MASS=12 SE16 MODEL-STEEL CONT.
PEAK SPREAD -20%+25% SSE

DISK CURVE SET NO.22

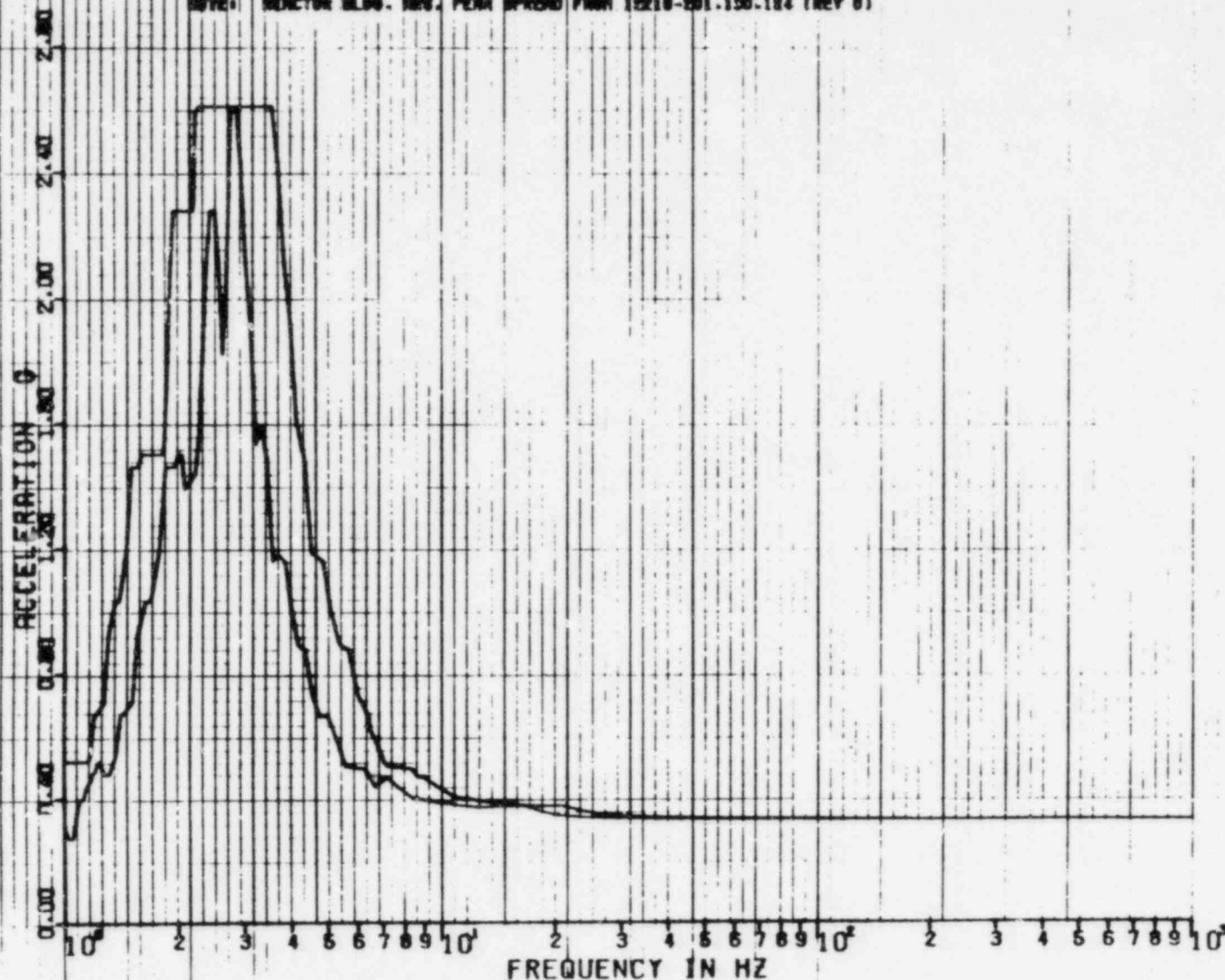
1.0 SSE

VER DIRECTION

K-KAY

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-201.130-184 (REV 0)



REF 81

SPECTRA VER 01 LEV 07

CUL STATE UT, VTTES-RBS UNIT 1-PLT 1221 DIMITCJ-SOL-1908 REV 01
 RRS OF R'C-C-REACTOR BLOC-EL-188-DO-HA65-12 SEIS MODEL-STEEL CONT.
 PERK SPREAD -20V, 25V

DISK CURVE SET NO. 22

1-D 55E

HDR DIRECTION

NOTE: REACTIVE M.D. HAS. PEAK SPEEDS FROM (220-20) (50-24) (8V b)

DAMPING VALUE = 0.000

K-ABV

22 APR 1982

(A)

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC 12210-ND-17-SOL-1908 REV 01
 RRS OF ACC-REACTOR BLOC ELE-138.00, HASSELE 2 SETS MODEL-STEEL CONT.
 PEAK SPREAD-20V, 1.25V
 SEE

DISK CURVE SET NO. 22

1-D 56E VER DIRECTION

NOTE: REACTION 9104 HAS BEEN SPREAD FROM 2210-501 130.14 18V 0)

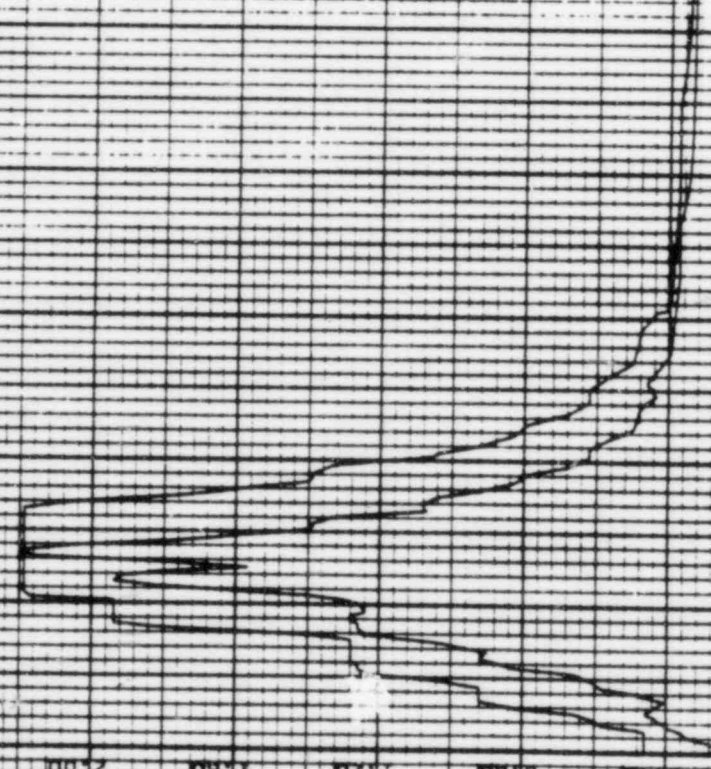
DAMPING VALUE = 0.040

K-KAY

22 APR 1982

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50 3.00

FREQUENCY IN HZ 10⁰ 2 3 4 5 6 7 8 9 10¹



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-R86 UNIT 1-CALC12210-MIC1-SQE-1909 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=162.00. MASS=13 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20%.-25%
 OBE

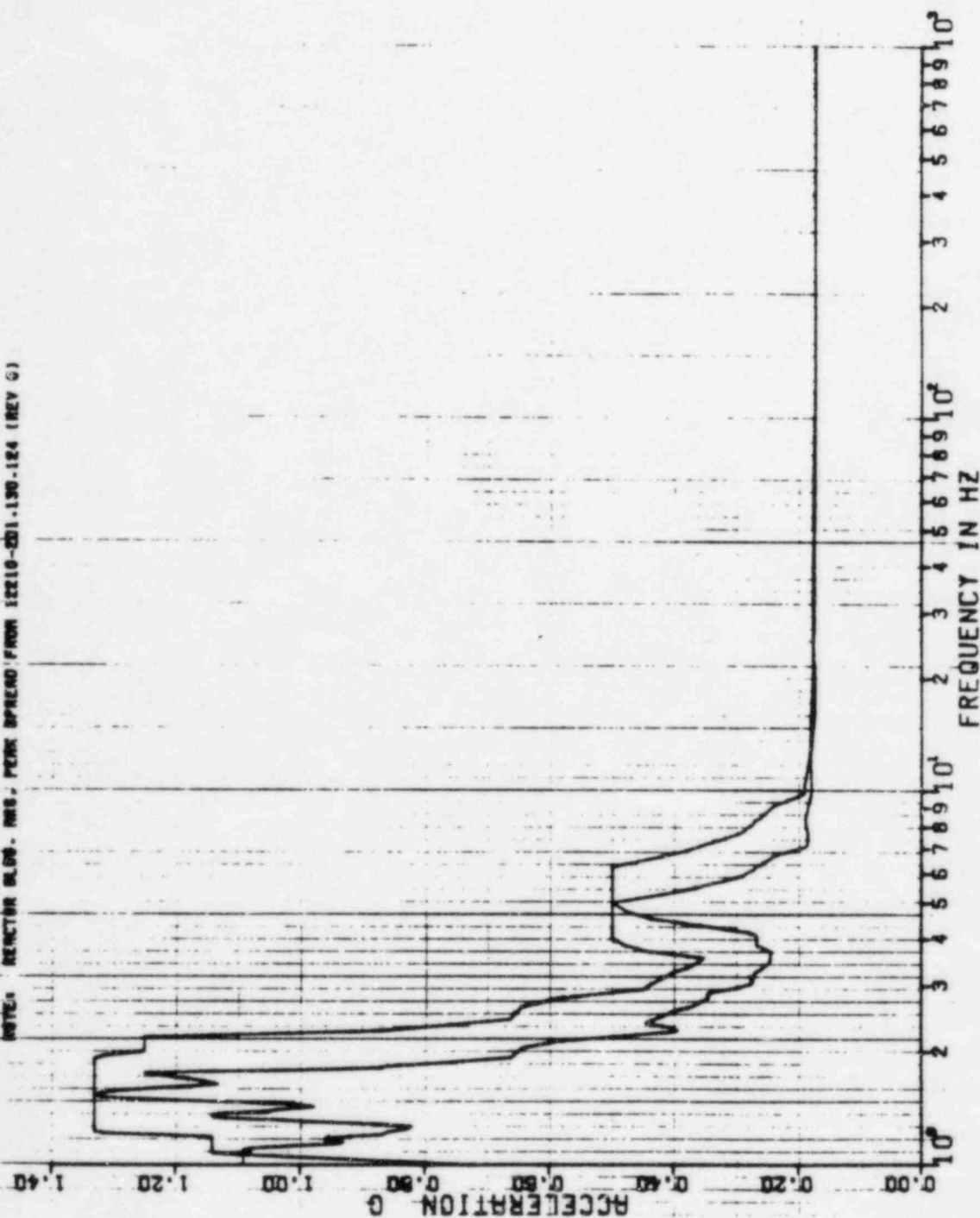
DISK CURVE SET NO.23

HOR DIRECTION

0.5 SSE

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-001.130-124 (REV 6)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-R06 UNIT 1-CALC12210-NM(C)-S0E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=162.00, MASS=13 SETS MODEL-STEEL CONT.
 PEAK SPREAD -20%+25%
 DBE

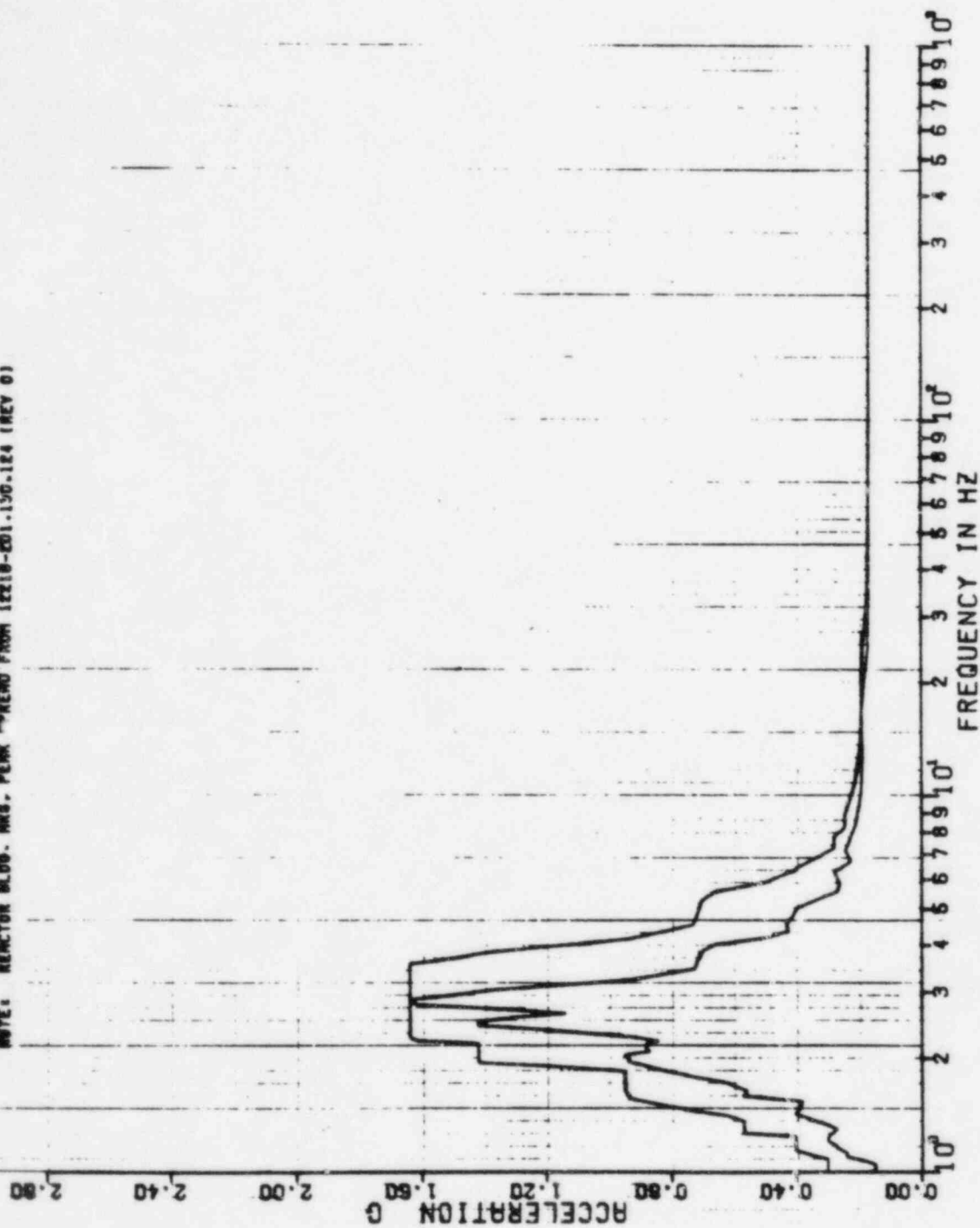
DISK CURVE SET NO.23

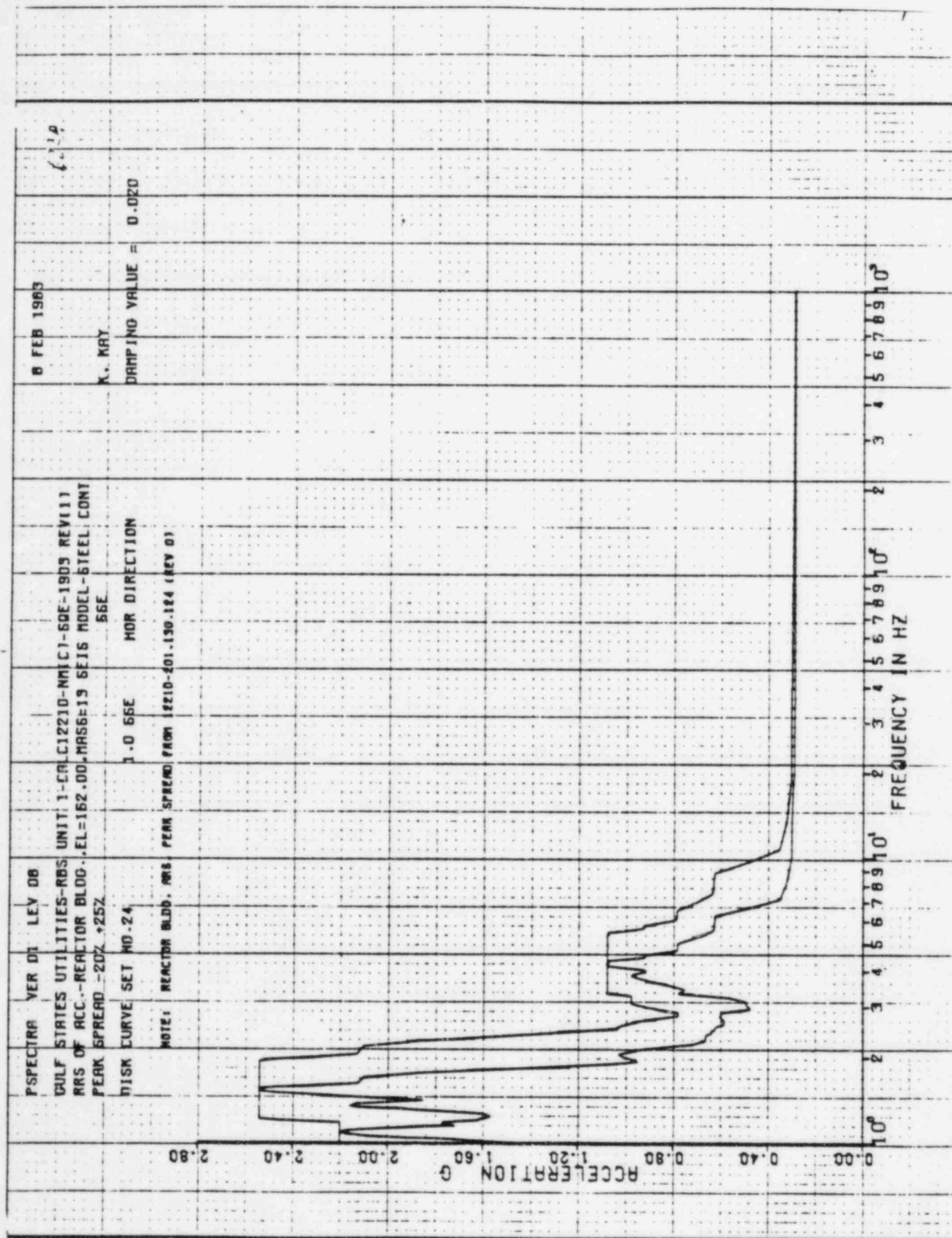
0.5 SSE

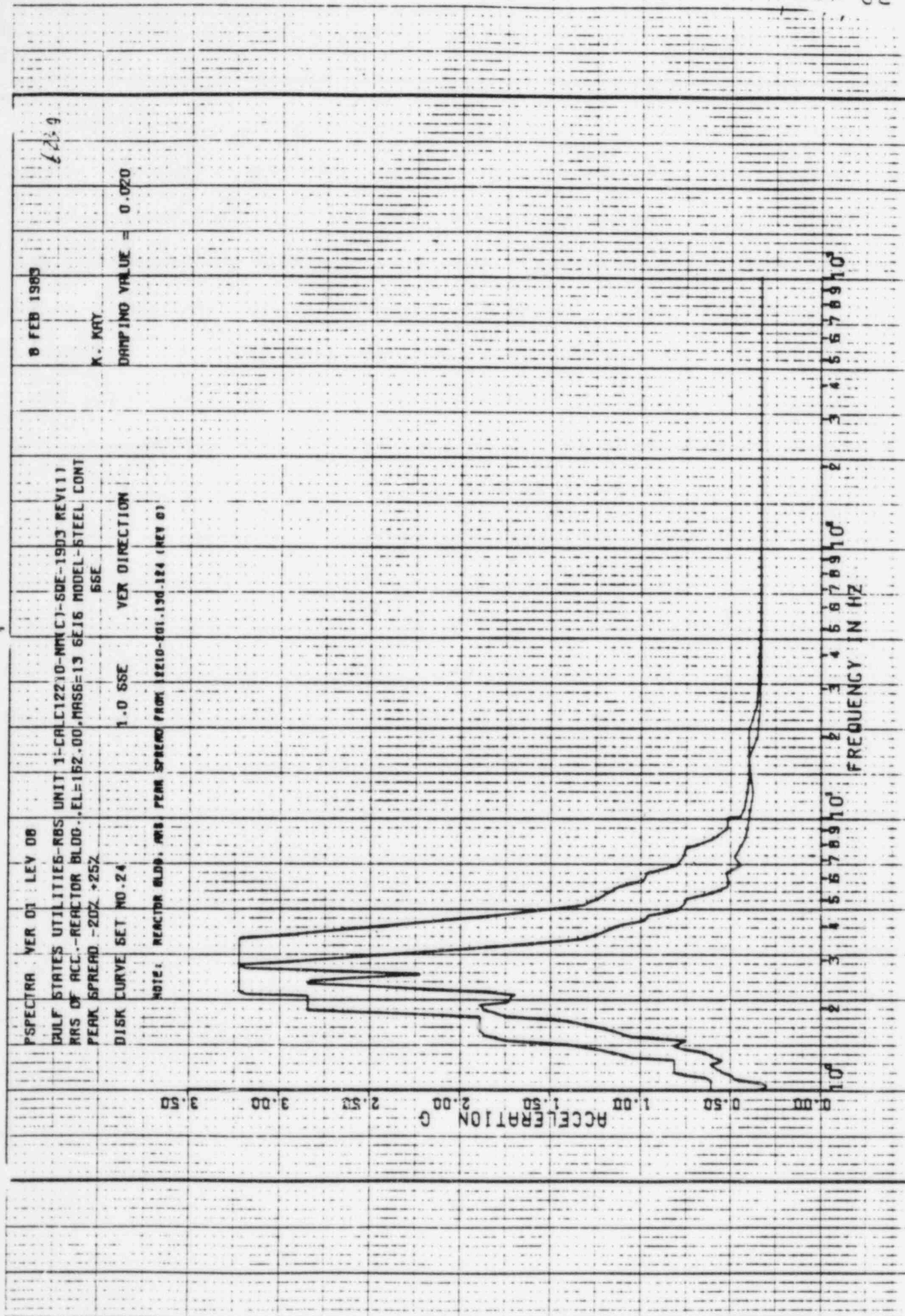
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MRS. PEAK FROM 12210-C01.150.124 (REV 0)







22 APR 1982

358A

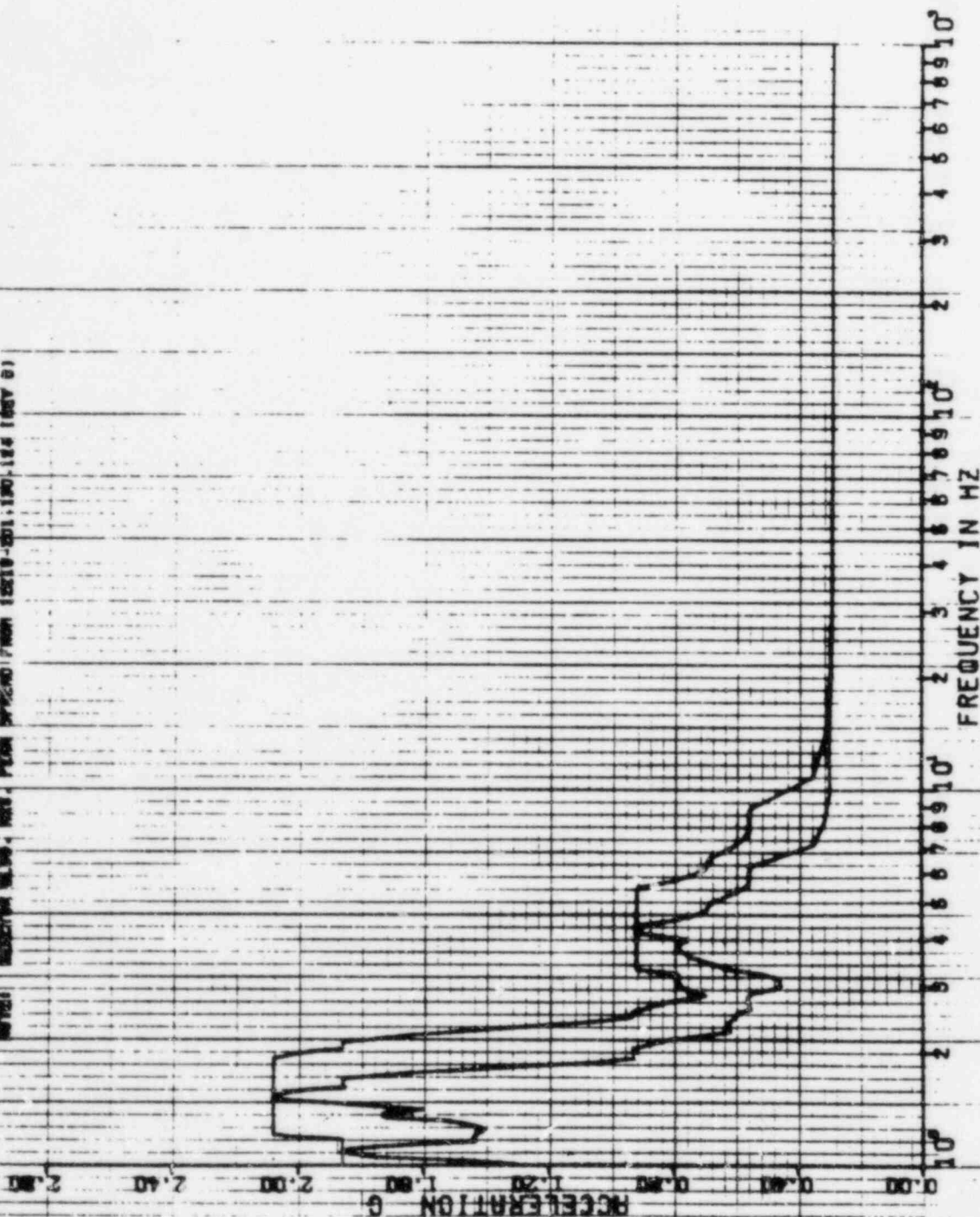
K. KAY

DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-888 UNIT 1-CALC12810-MM(C)-93E-1903 REV(0)
 RRS OF CC-REACTOR BLDG-EL-182.00-MASS-13 SE16 MODEL-STEEL CONT.
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.24
 1.0 55E
 MOR DIRECTION

NOTE: DIRECTION VALUE, NEG. PEAK SPREAD FROM 12510-201.180.186 (REV 0)



22 APR 1982

3.57A

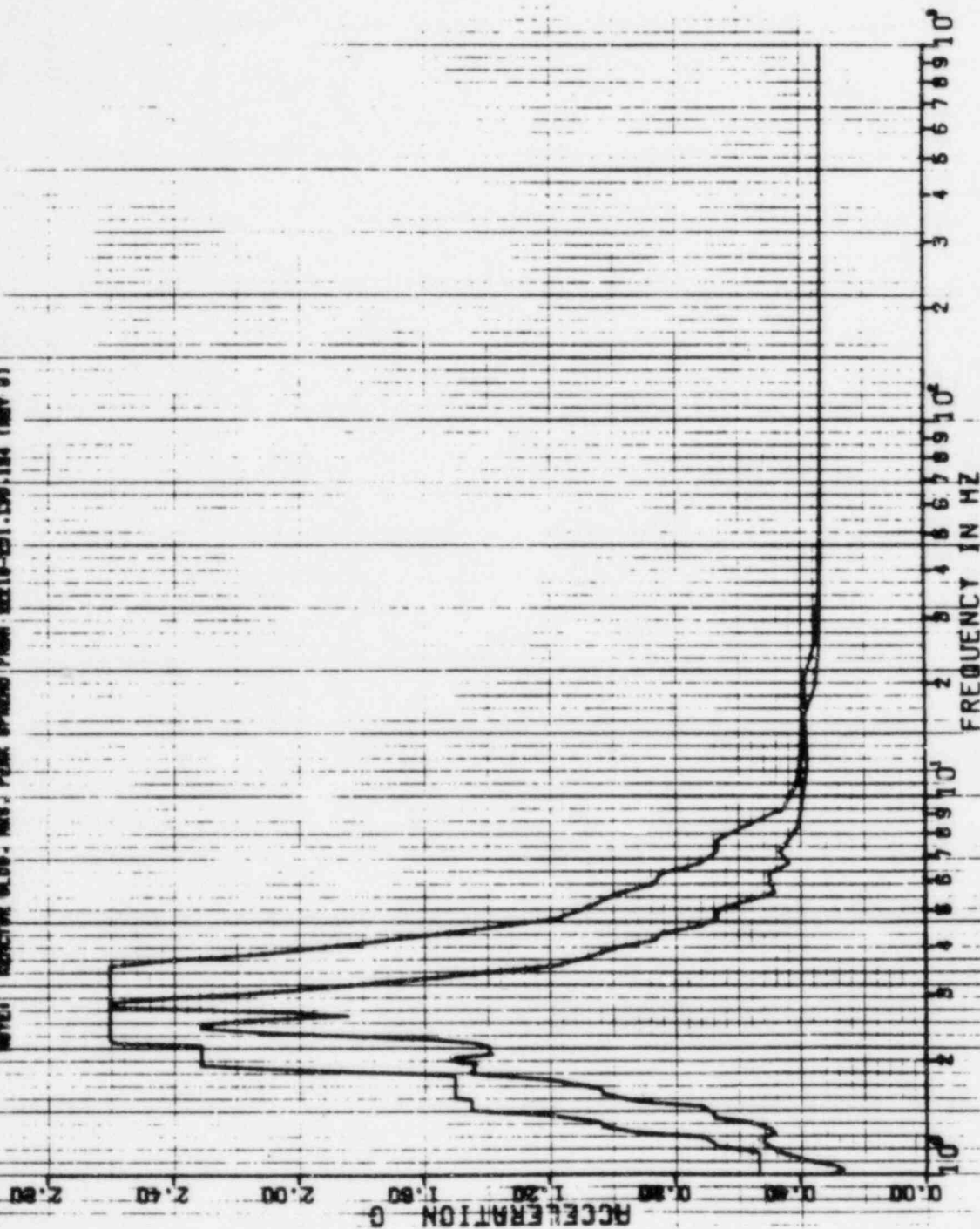
K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 DULF STATE UTILITIES-RBB UNIT 1-CALC12210-WA(C)-802-1903 REV101
 RKS OF ACC.-REACTOR BLDG-EL-162.00.MASS=13 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20%+25%
 DISK CURVE SET NO.24

1.0 6SE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 822.10-821.139.154 (REV 9)



22 APR 1982

K-KAY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEY 07

GULF STATE UTILITIES-RBS UNIT -CMCC (22.0-MIN) (50.1-1903 REV M)
RBS OF ACC. REACTOR BLOC. EL. 162.00. MASS= 3 SE. S. MODEL-STEEL CONT.
PEAK SPREAD= 907.25% S.S.E.

DISK CURVE SET NO. 24

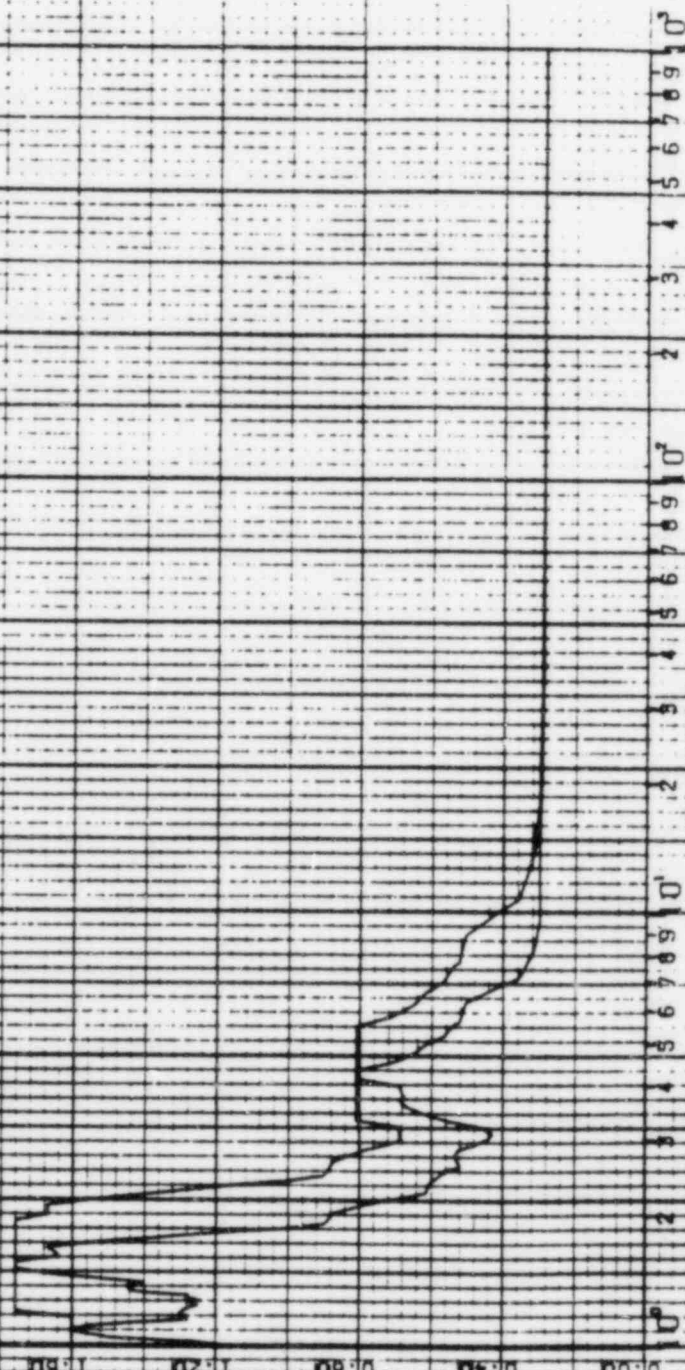
1.0 S.E.

HOR. DIRECTION

NOTE: REACTOR BLOC. HAS. PEAK SPREAD FROM 12510-201 130.14 (REV. 0)

ACCELERATION

FREQUENCY IN HZ



22 APR 1982

K-KAY

DAMPING VALUE = 0.000

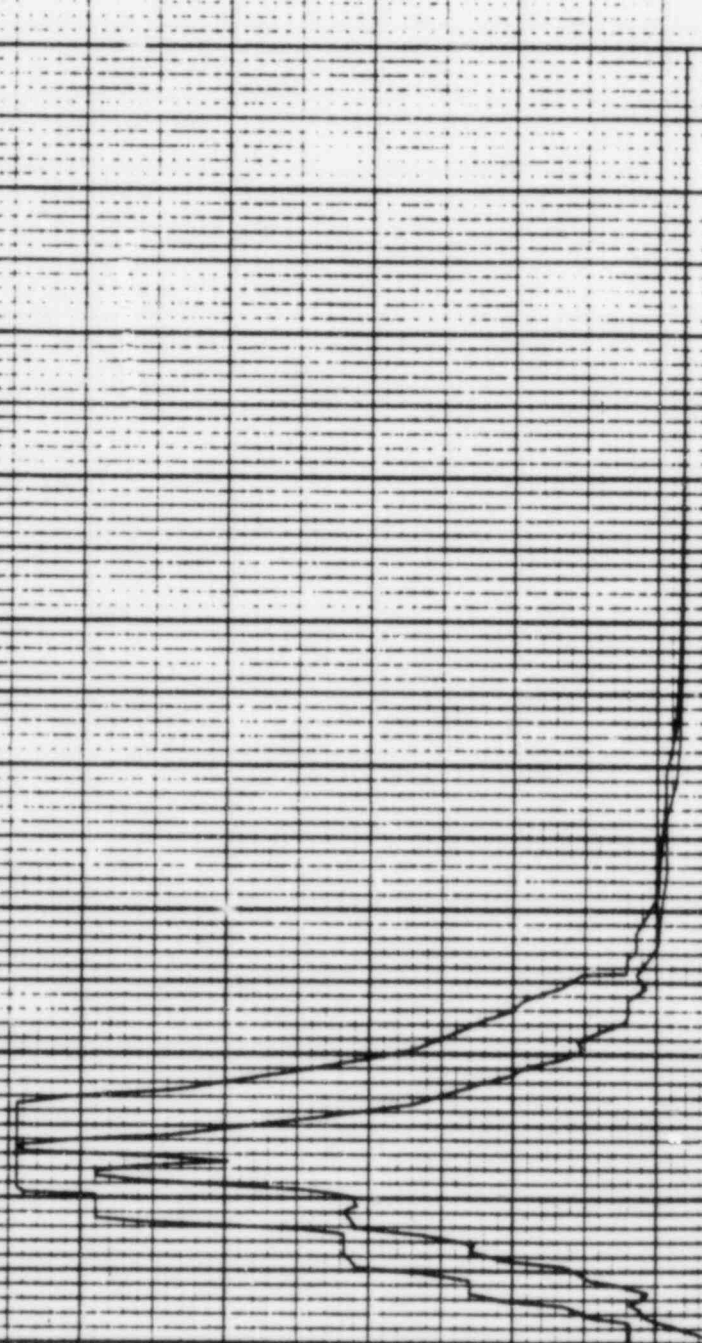
PERFORM VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT - CALC 12210-00-11-SOE-1303 REV 01
 RBS OF REACTOR BLOC. EL-162.00. MASS-1.9 SE 5 MODEL STEEL CONT.
 PEAK SPREAD 1207.1257

DISK CURVE SET NO. 2N 1.01 SSE VER DIRECTION

NOTE: REACTOR BLOC. RBS. PEAK SPREAD FROM 12210-00-11-SOE-14 (REV. 0)

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC(2210-NAIC)-8QE-1903 REV(0)
RMS OF ACC.-REACTOR BLDG. EL=185.00.MASS=14 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20%+25% OBE

K.KAY

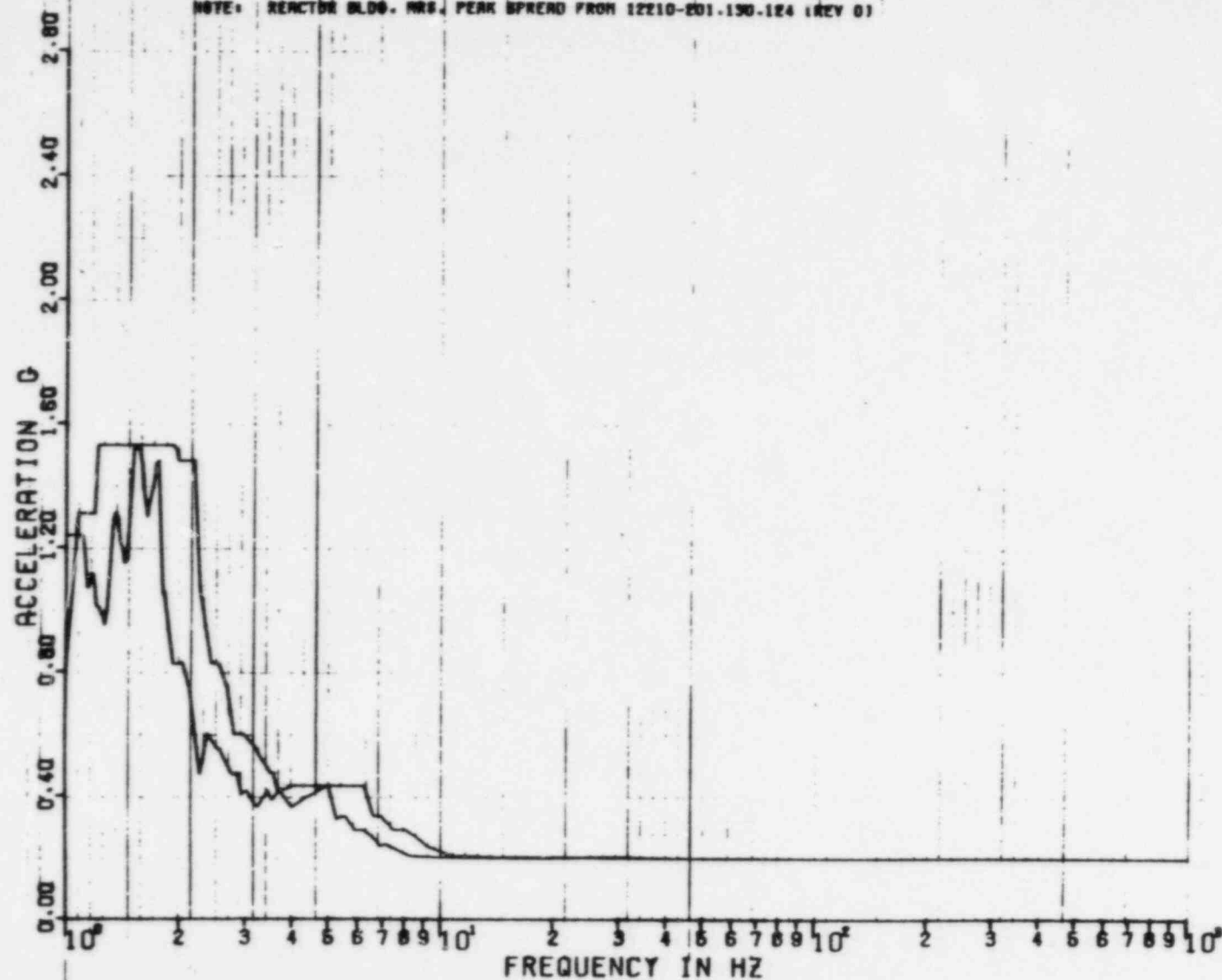
DISK CURVE SET NO.25

0.5 66E

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 83

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-6QE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG-EL=185.00, MASS=14 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20%, +25% OBE

K.KAY

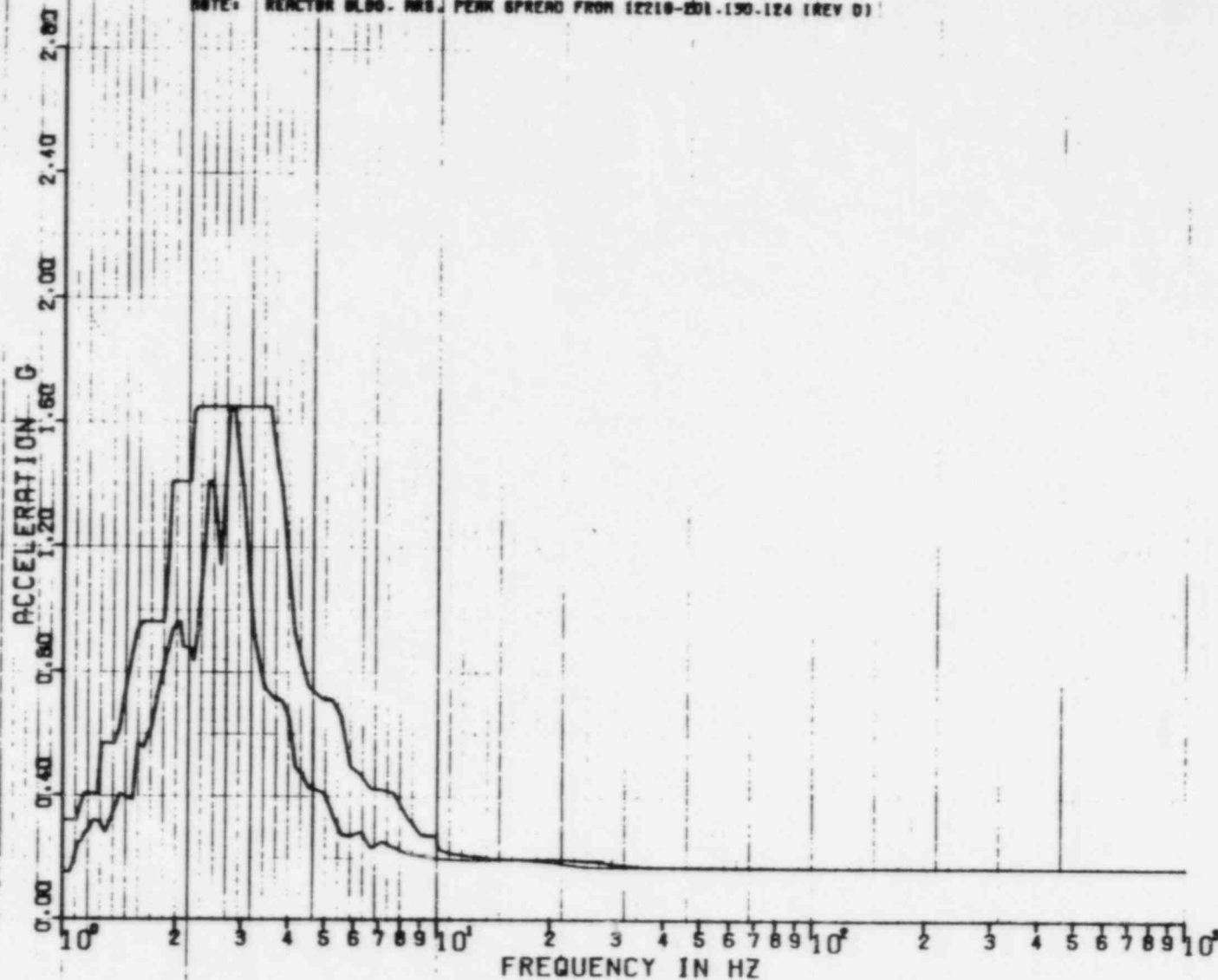
DISK CURVE SET NO.25

0.6 SSE

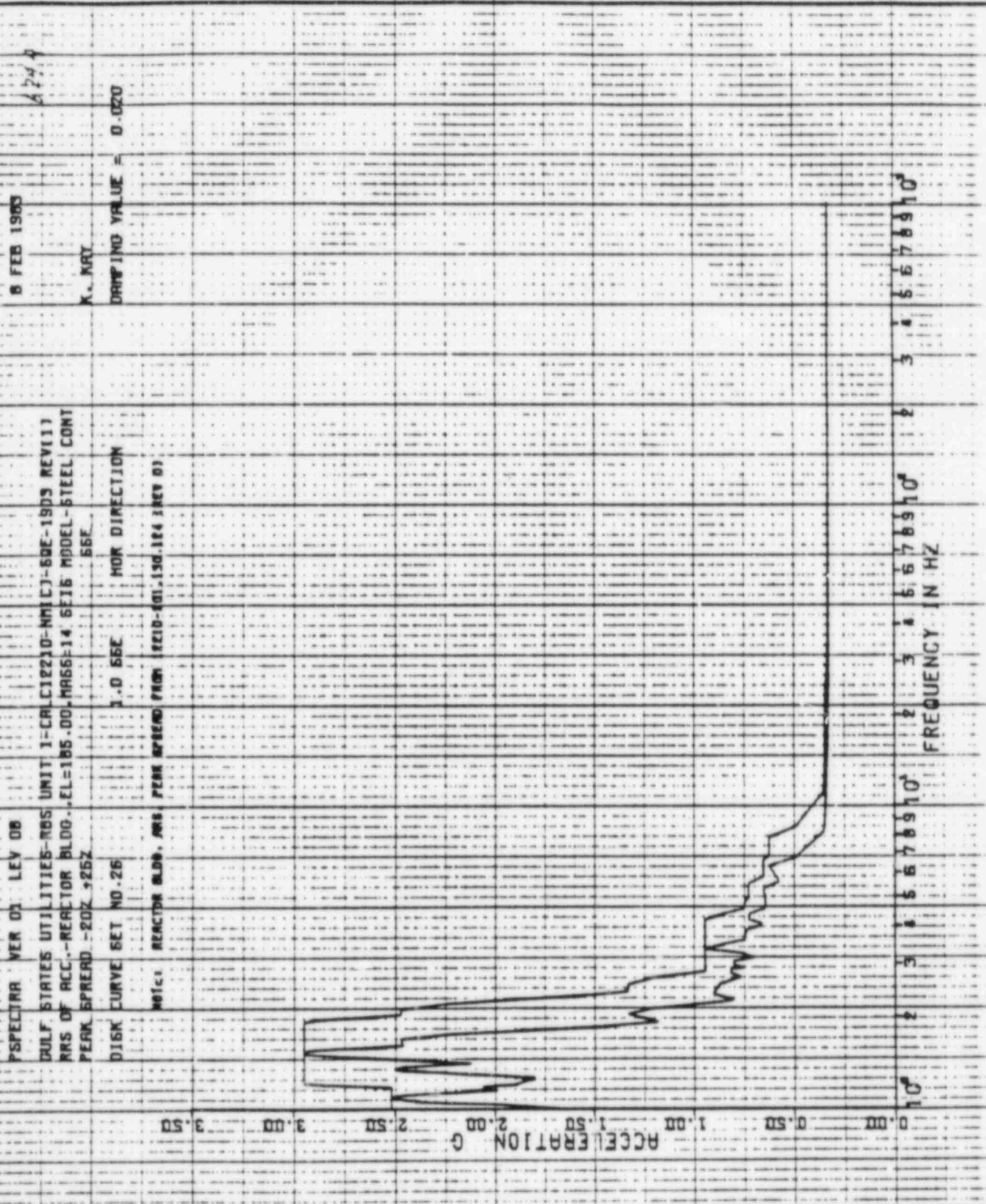
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-ED1.190-124 (REV 0)



REF 83



2234

6 FEB 1965

K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-PBS
 UNIT 1-CALC12210-MMIC1-SQE-1903 REV11
 RRS OF ACC.-REACTOR BLDG., EL=185.00, MASS=14 5E16 MODEL-STEEL CONT
 PEAK SPREAD -20% +25%
 56E

3.0 56E VER DIRECTION

DISK CURVE SET NO.26

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-501.130-184 (REV 01)

ACCELERATION - G

FREQUENCY IN HZ

5.678910⁰

3

2

10⁰5.678910⁰

3

2

10⁰5.678910⁰

3

2

10⁰5.678910⁰

3

2

10⁰

PSPECTRA VER 01 LEV 07

22 APR 1982

36A

DULF STATE UTILITIES-RBS UNIT 1-CALC12218-NH(C)-SSE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG-EL=185.00, MASS=14 SETS MODEL-STEEL CONT.
PEAK SPECTRUM -201.125%

K.KAY

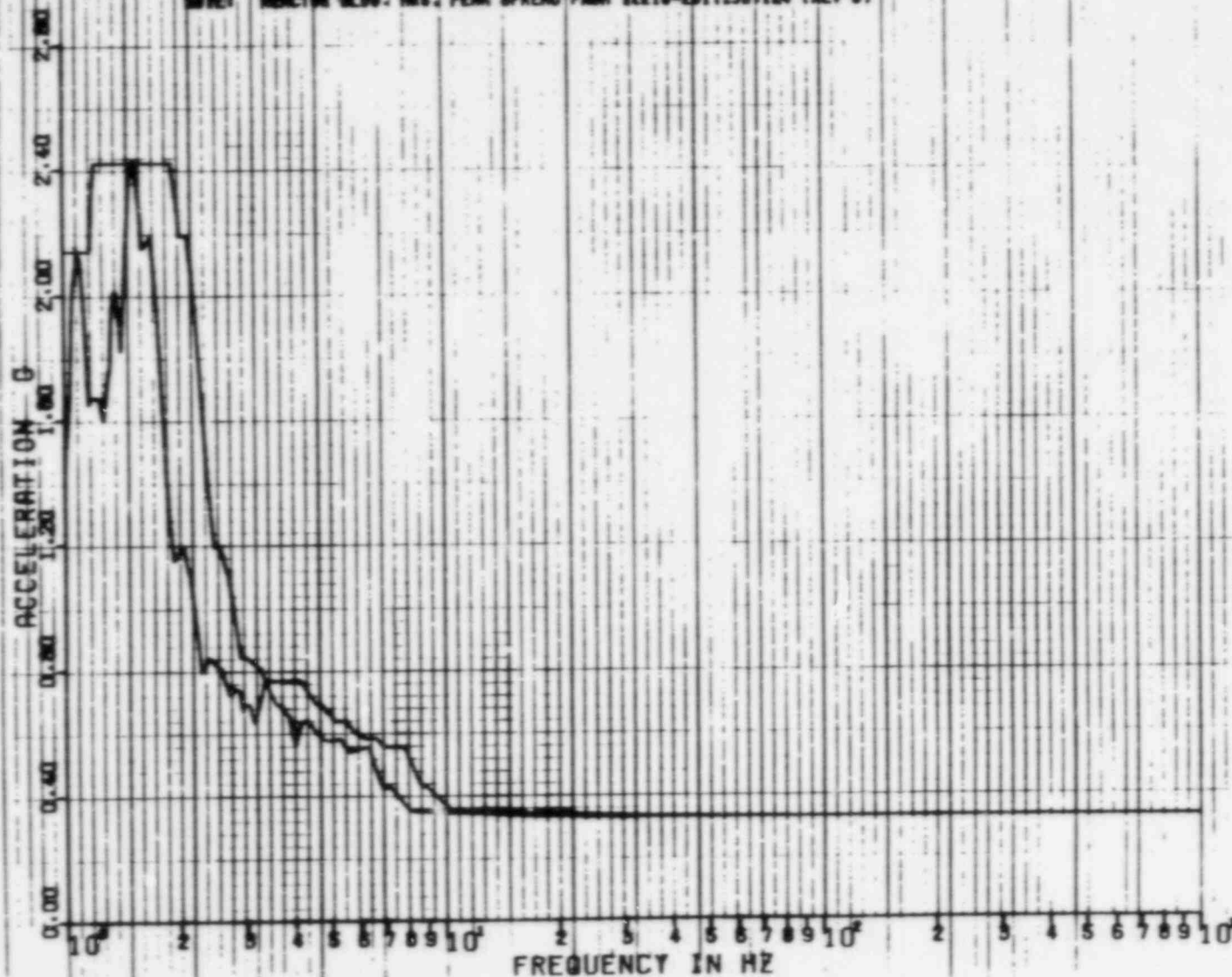
DAMPING VALUE = 0.030

DISK CURVE SET NO.25

1.0 SSE

HOR DIRECTION

NOTE: MODAL ANAL. HAS. PEAK SPECTRUM FROM 12218-201.125.184 (REV 01)



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3614

22 APR 1982

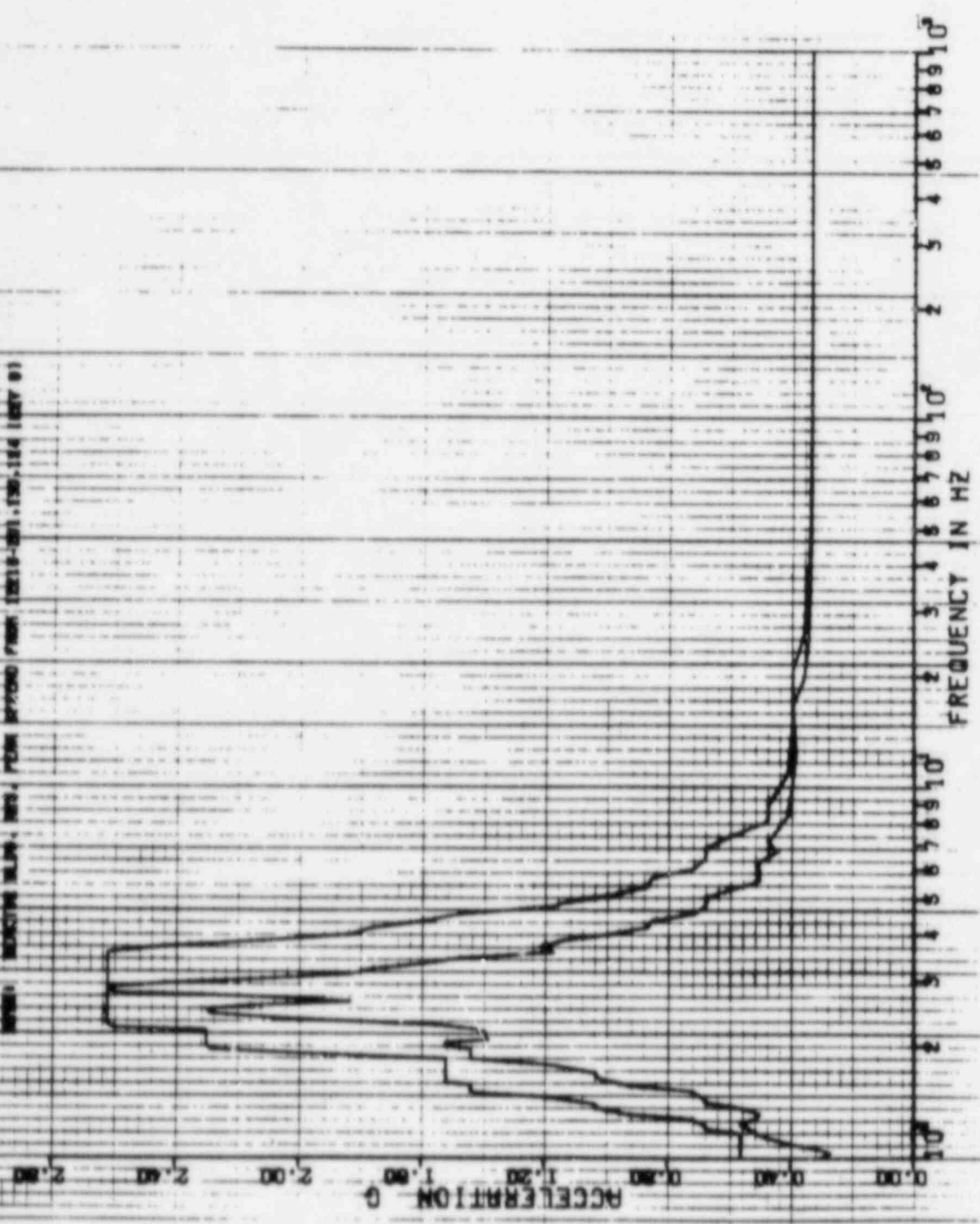
K.KAY

DAMPING VALUE = .090

PSPECTRA VER 01 LEV 07
 DOLF STATE UTILITIES-RBS UNIT 1-CALC12210-MN(C)-SSE-1983 REV(0)
 RBS OF REACTOR BLDG. EL#185.00, MASS=14.6E15 MODEL-STEEL CONT.
 PENE SPRESS - 200.125X
 DISK CURVE SET NO.25

1.0 SSE VER DIRECTION

NAME: MONITORING M139, M139, PERS SPACED FROM 12518-12519.125-12514 (REV 9)



PSPECTRA VER 01 LEV 07

CULF STATE UTIL. RES. UNIT - CULF 12210-UNIT 1-1003 REV 101
 RES OF ACC. REACTOR BLOC. EL-103.00 MASS= 4 SE S. MODEL-STEEL CONT
 PEEK SPREAD 1907.125

DISK CURVE SET 80.26

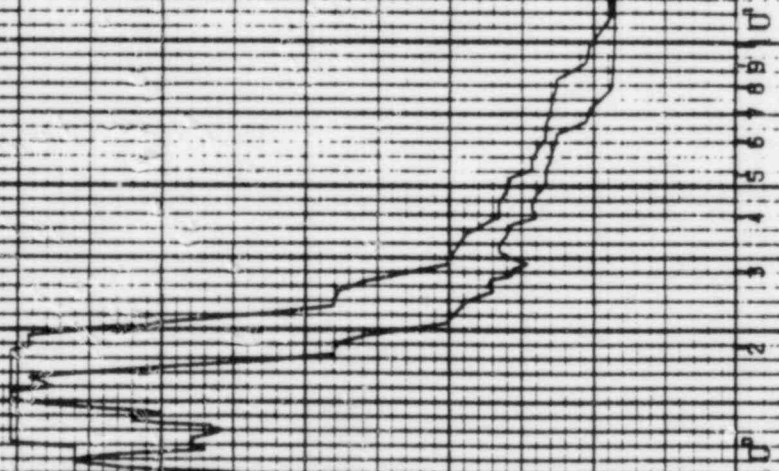
1.0 SSE HOR DIRECTION

NOTE: REACTOR BLOC. RES. PEAK SPREAD FROM 1221.0-201.1351 (24) (REV. 01)

DAMPING VALUE = 0.010

ACCELERATION

FREQUENCY IN HZ



22 APR 1981

E. KAY

7-1A

PSPECTRA VER 0 LEV 07
 GOLF STATE UTILITIES-RBS W
 RBS OF ALL REACTOR BLOC
 PEAK SPREAD 207.1257

+CALL 2210-4411-SUC-1903 REV 01
 105.00 MASS-1 SE S MODEL-STEEL CONT
 SSE

DISK CURVE SET NO. 26

0.056 VER DIRECTION

NOTE: REACTOR BLOC - PMS - PEAK SPREAD FROM 12210-201 USD 124 INEY 01

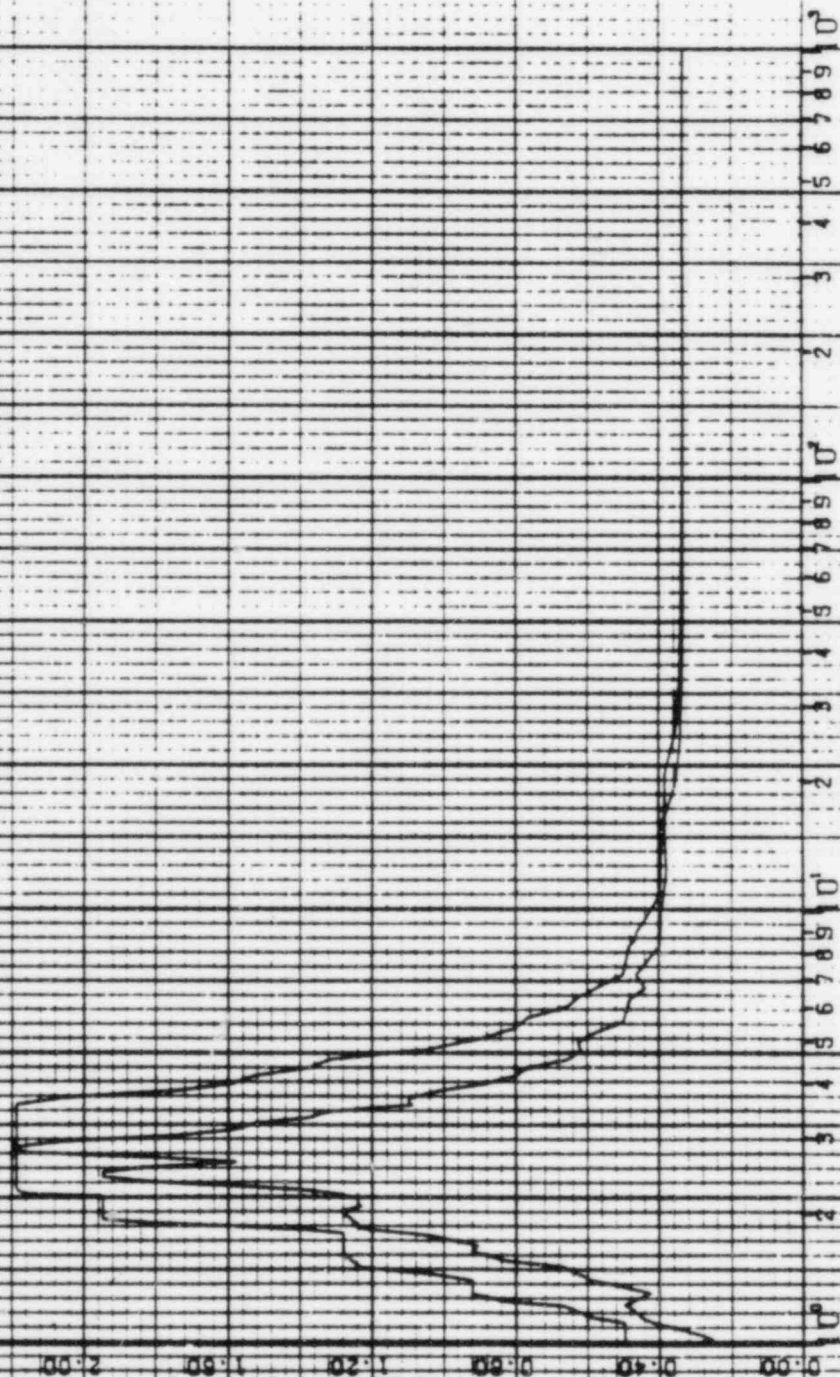
22 APR 1982

K-KAY

DAMPING VALUE = 0.010

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SSE-1903 REV(0)
 RRS OF ACCL-REACTOR 81.00.EL-212.00, MASS=15 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20%+25%

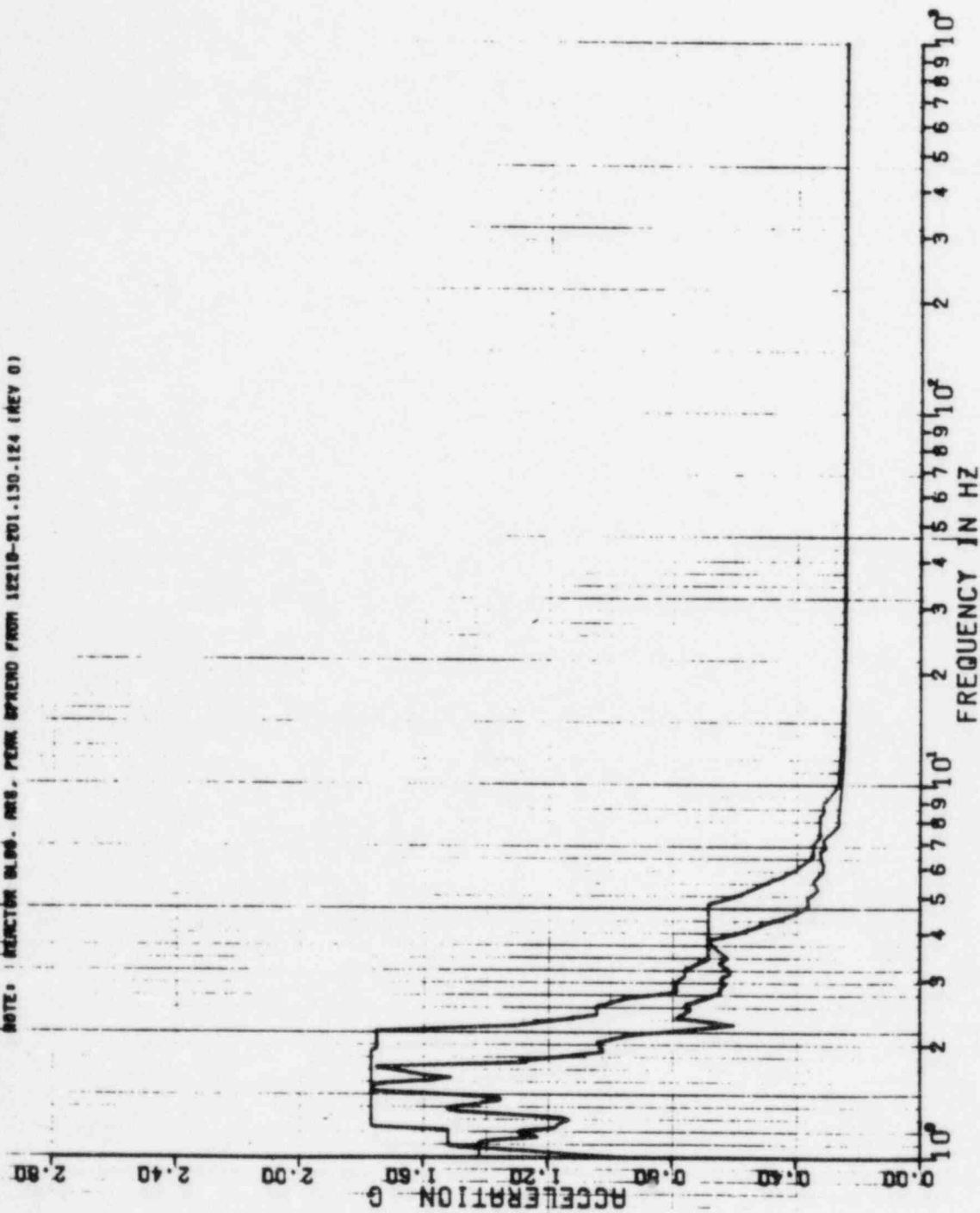
DISK CURVE SET NO.27

0.5 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTION 81.00. RRS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



PSPECTRA VER 01 LEV 07

DJLF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C))-SBE-1903 REV(0)
RMS OF ACC--REACTOR BLDG-EL-212.00, MASS=15 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20%+26%

DISK CURVE SET NO.27

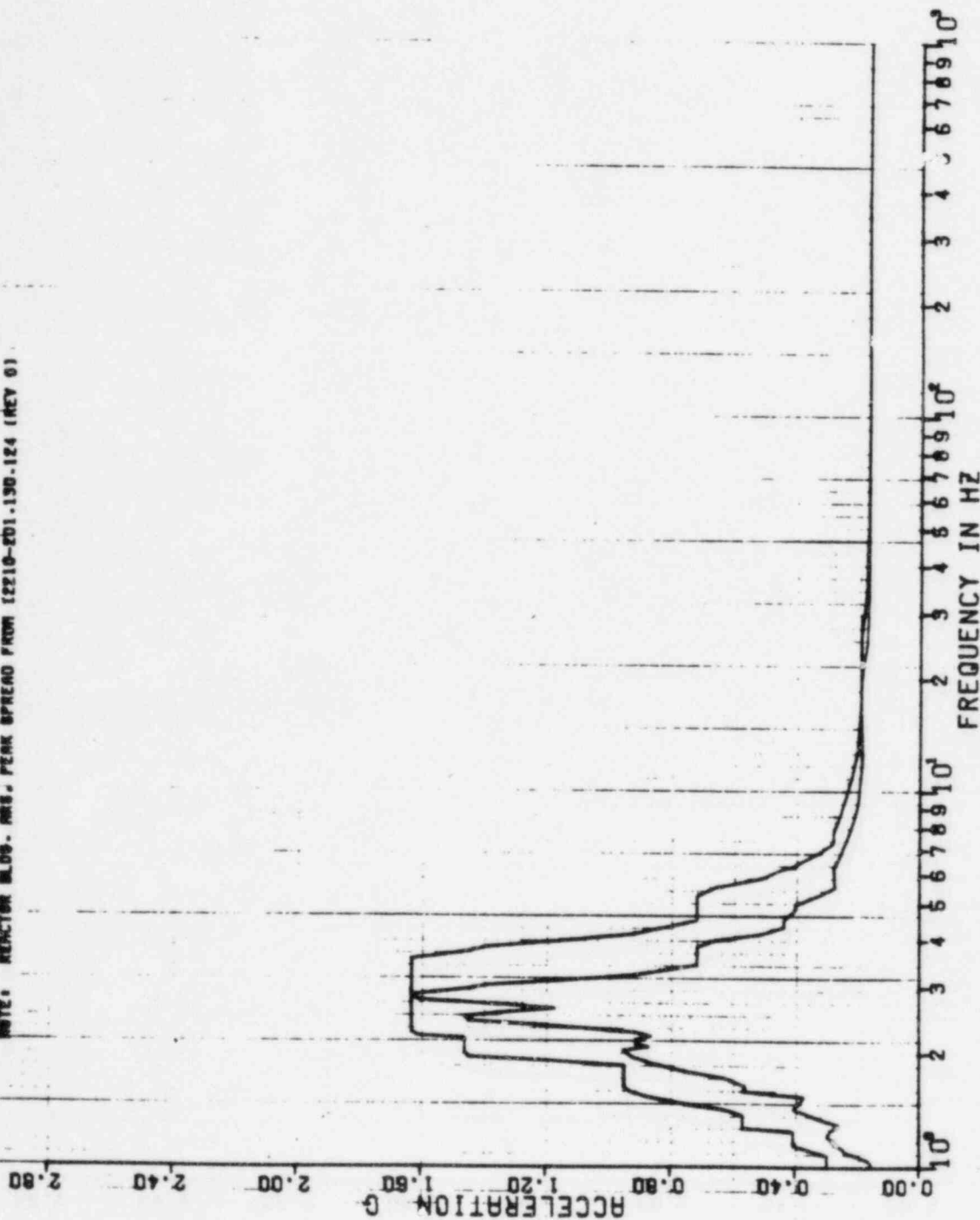
0.5 S6E VER DIRECTION

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



628A

8 FEB 1963

K. KAY

DAMPING VALUE = 0.020

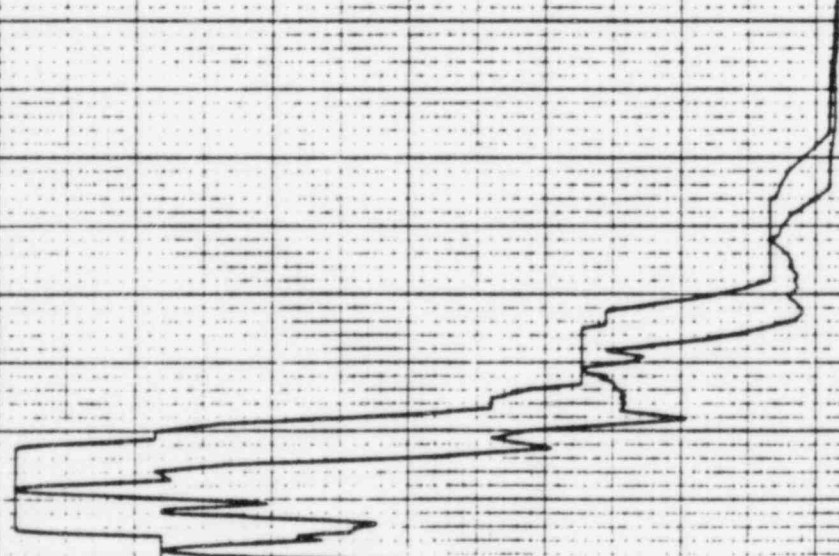
PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS
 RRS OF ACC.-REACTOR BLDG.
 PEAK SPREAD -20% +25%

DISK CURVE SET NO. 26

1.0 65E HOR DIRECTION

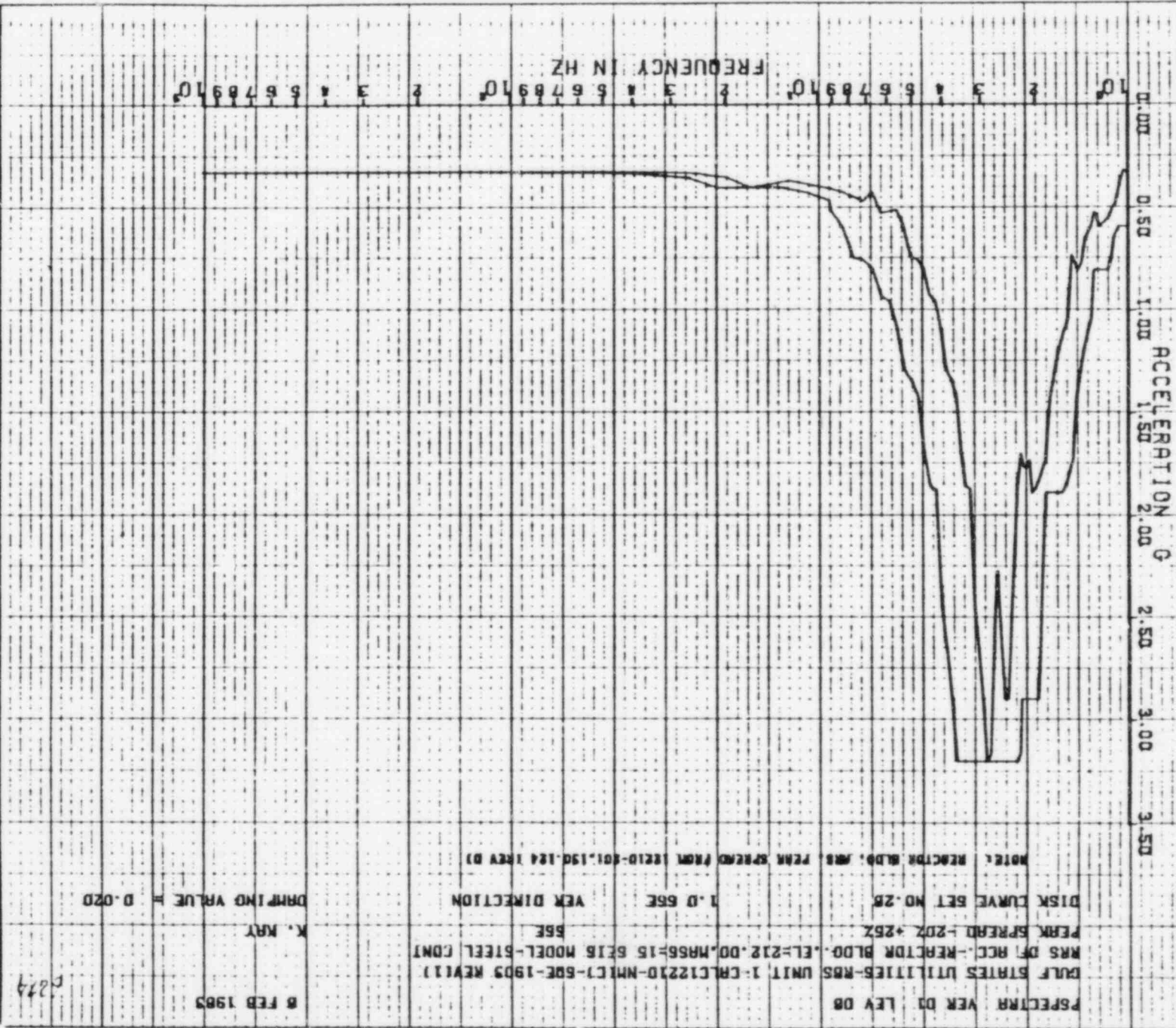
NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-101.130-124 (REV D)

ACCELERATION G



FREQUENCY IN HZ

REF 84



SPECTRA VER D3 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C7-50E-1903 KEV11
 RRS OF RCC-REACTOR BLDG.-EL=212.00,MR56=15 5E16 MODEL-STEEL CONT
 PEAK SPREAD -20Z +25Z
 DISK CURVE SET NO.25
 1.0 55E
 VER DIRECTION
 NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM 1810-150.124 (REV D)
 DRAFTING VALUE = 0.020
 K. MAY
 8 FEB 1983
 6274

22 APR 1982

3624

K-KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NHIC)-SDE-1903 REV10)
 RRS OF REC- REACTOR BLDG-EL-212.00.MASS-15 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20%±25%

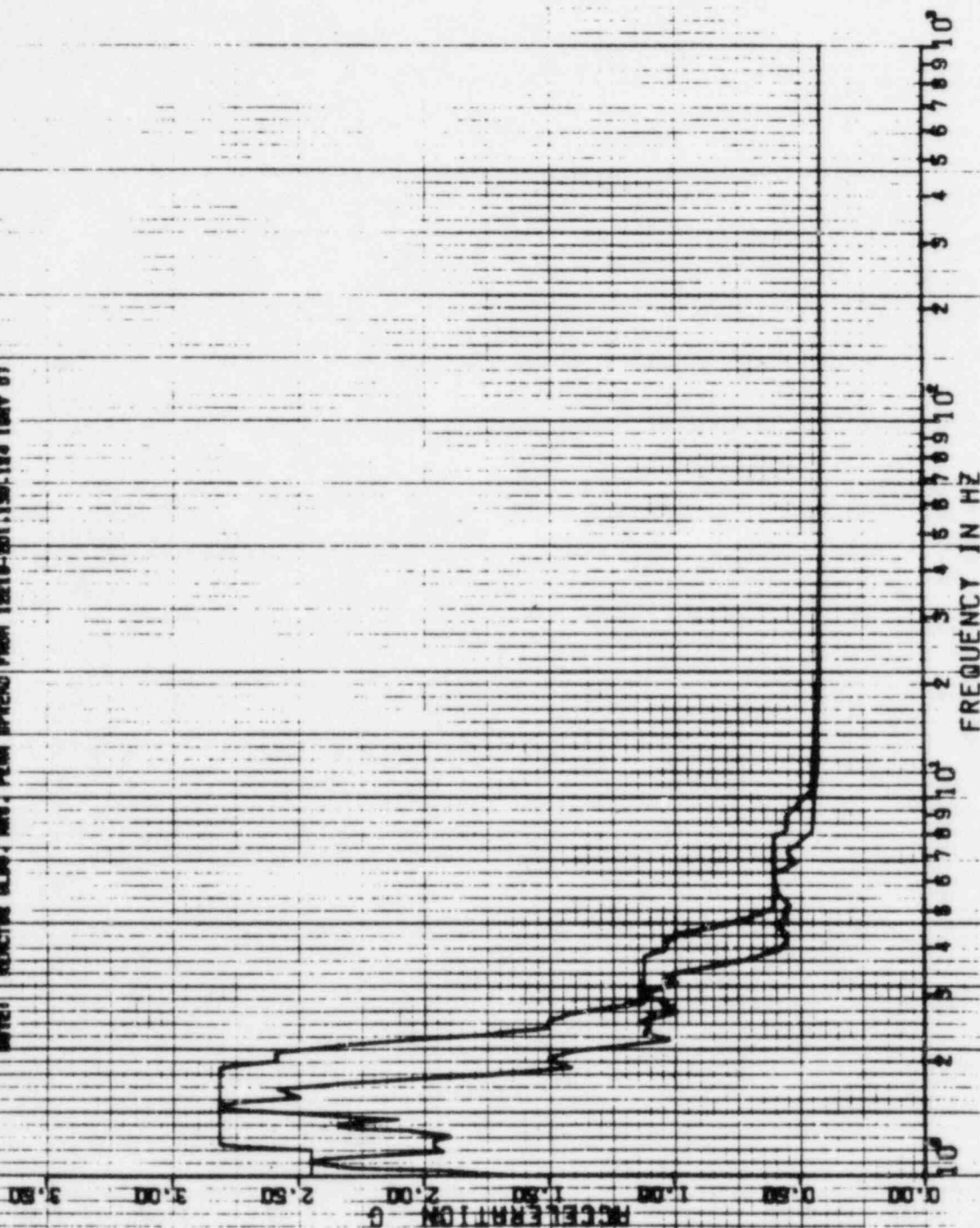
SSE

MDR DIRECTION

1.0 SSE

DISK CURVE SET NO.28

NOTE: REACTOR BLDG. NO. FROM SPREAD FROM 1210-201.150.125 (REV 8)



22 APR 1982

363

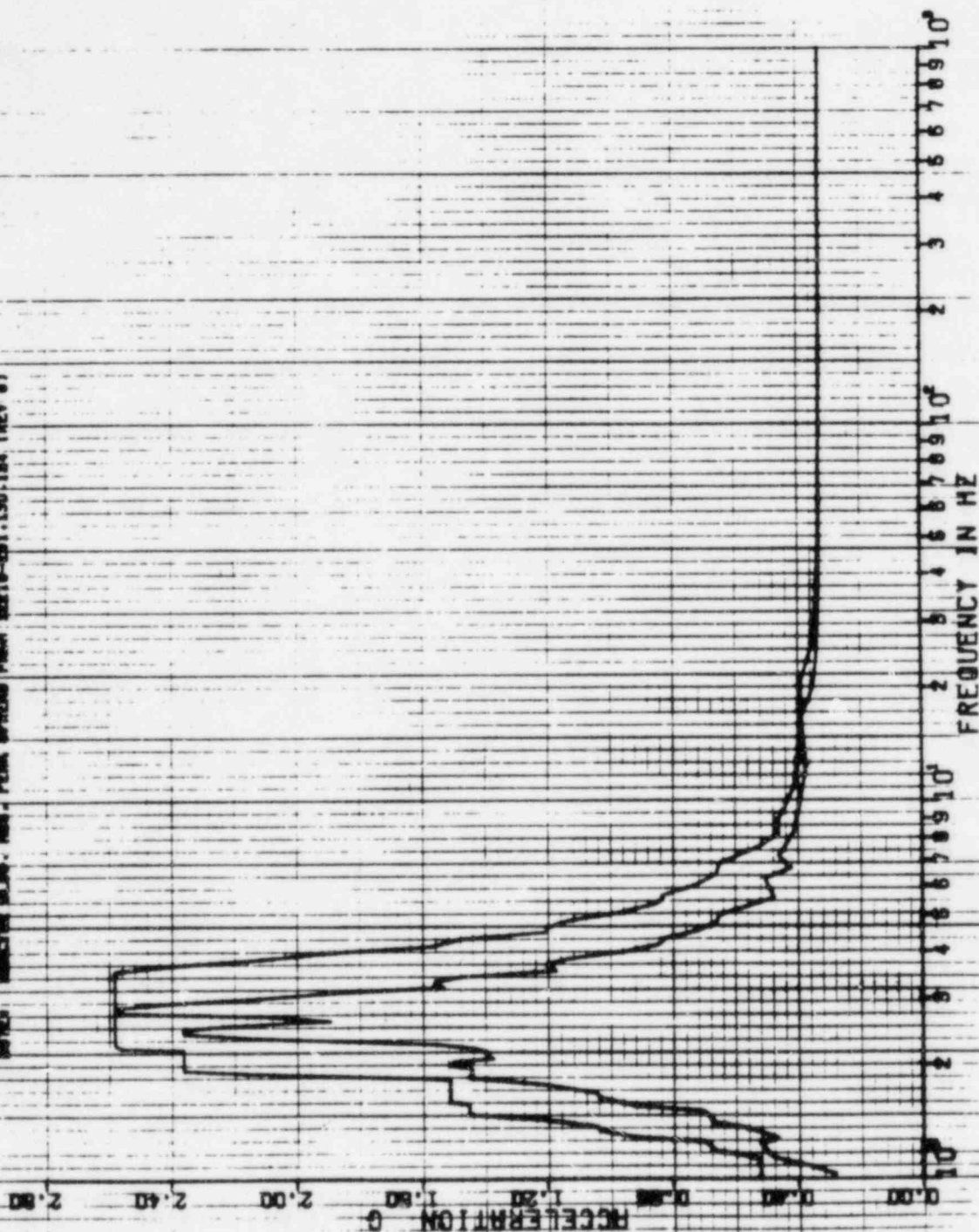
K-KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-RM(C)-SSE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL-212.00, MASS=15 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20Z,+25Z
 SSE

DISK CURVE SET NO.28
 1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 0.018-0.031, 0.030-0.034 (REV 0)



22 APR 1962

1.00

DAMPING VALUE = 0.010

PSPECTRA VER 01 LEV 07

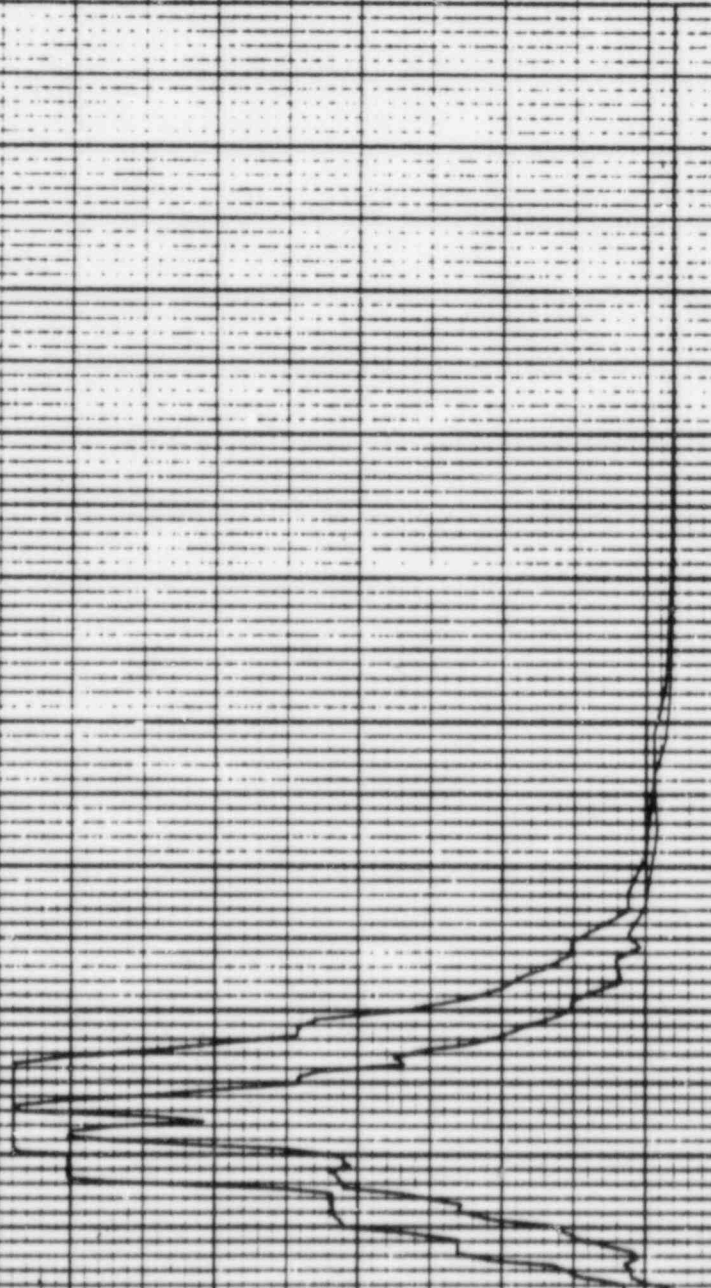
ONLY STATE UTILITIES-RBS UNIT - CAL 12210-11110-308-1903 REV 10
 RBS OF ACC-BEAMTOR BLDG RU-212-00 MASS-15 SE'S MODEL-STEEL CONT-
 PEAK SPREAD -203-1252

WISK CURVE SET NO 28 .0 SSE VER DIRECTION

NOTES: BEAMTOR BLDG AND. FROM SAME NO FROM 12210-201 11110-124 (REV 01)

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ 0 1 2 3 4 5 6 7 8 9 10



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-M86 UNIT 1-CALC12210-MM(C)-S0E-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.-EL-239.20, MASS-16 SEIS MODEL-STEEL CONT.
PEAK SPREAD -20%+25%

08E

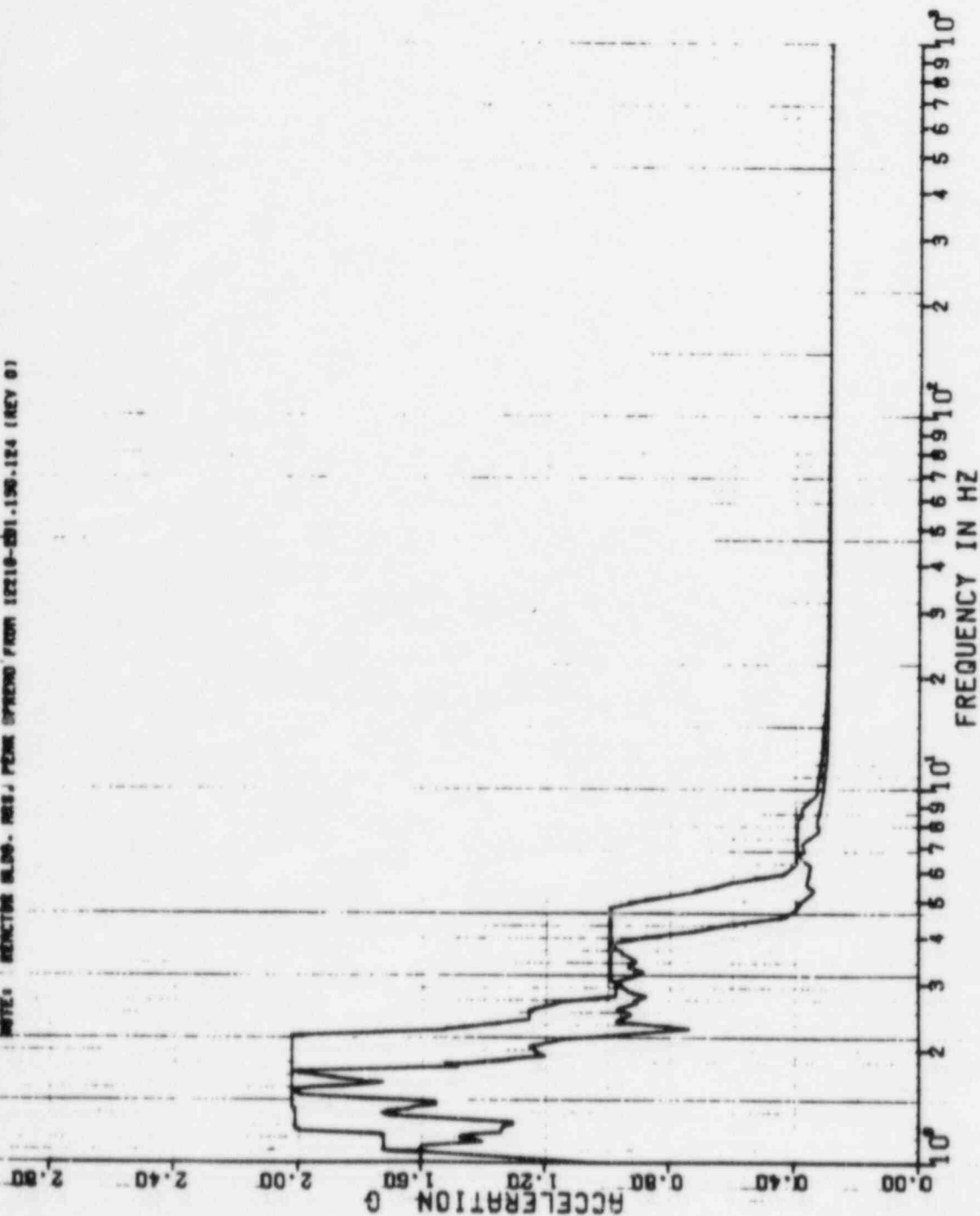
DISK CURVE SET NO.29

0.5 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MH(C)-SDE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-239.20, MASS=16 SEIS MODEL-STEEL CONT.
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.29

0.5 SSE

VER DIRECTION

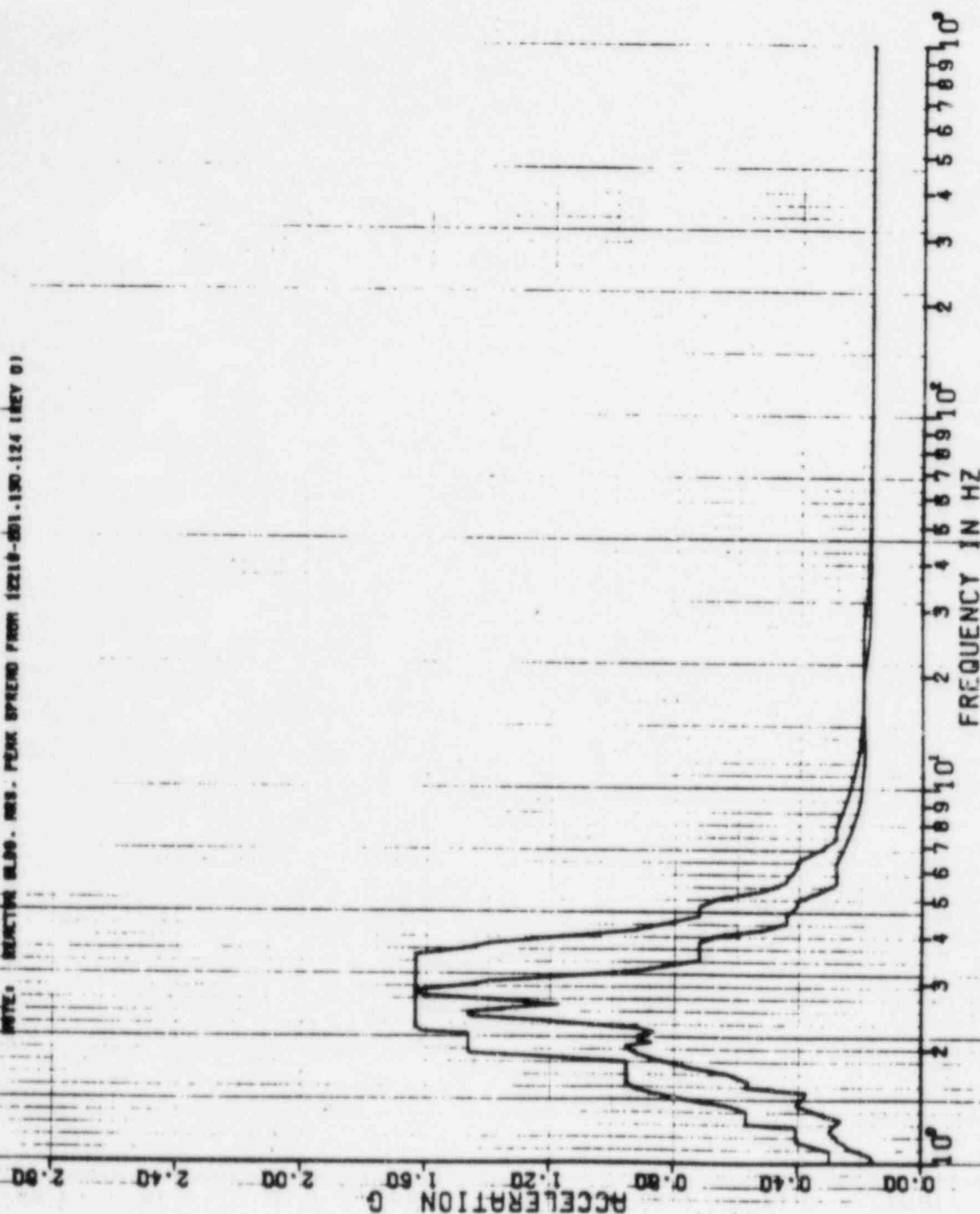
NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 12210-201.130.124 (REV 0)

DAMPING VALUE = 0.020

K.KAY

22 APR 1982

23:4



58 352

624

8 FEB 1983

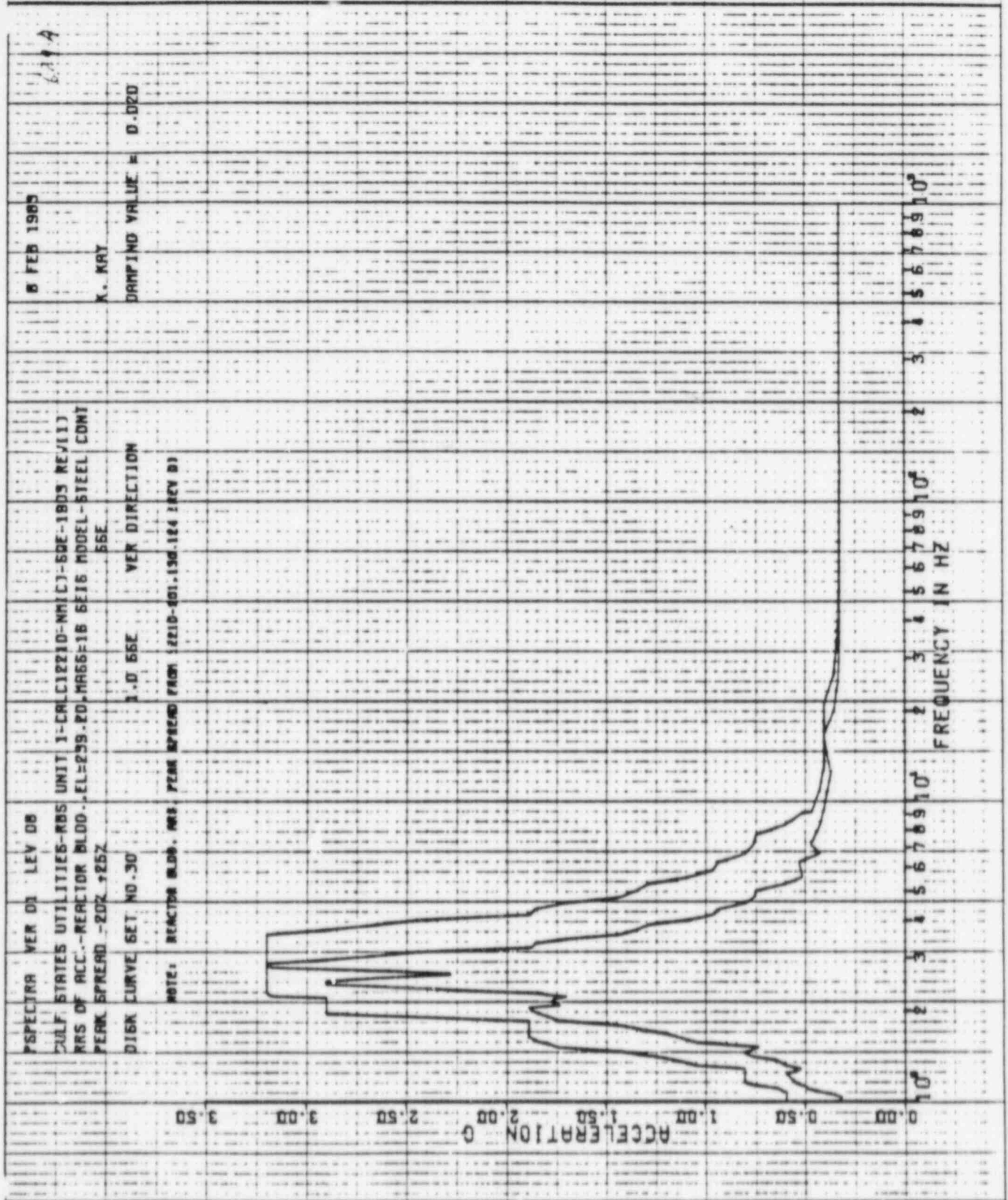
K. KRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CRCL12210-NM1C7-60E-1903 REV111
 RRS OF RCCI-REH. OR BLDG. EL-239.20, MAB65-16 6E16 MODEL-STEEL CONT
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO.30
 1.0 SSE
 HDM DIRECTION
 SSE

NOTE: REACTOR ALSO, RRS, PEAK SPREAD FROM 1001-150.104 (REV D)





3644

22 APR 1982

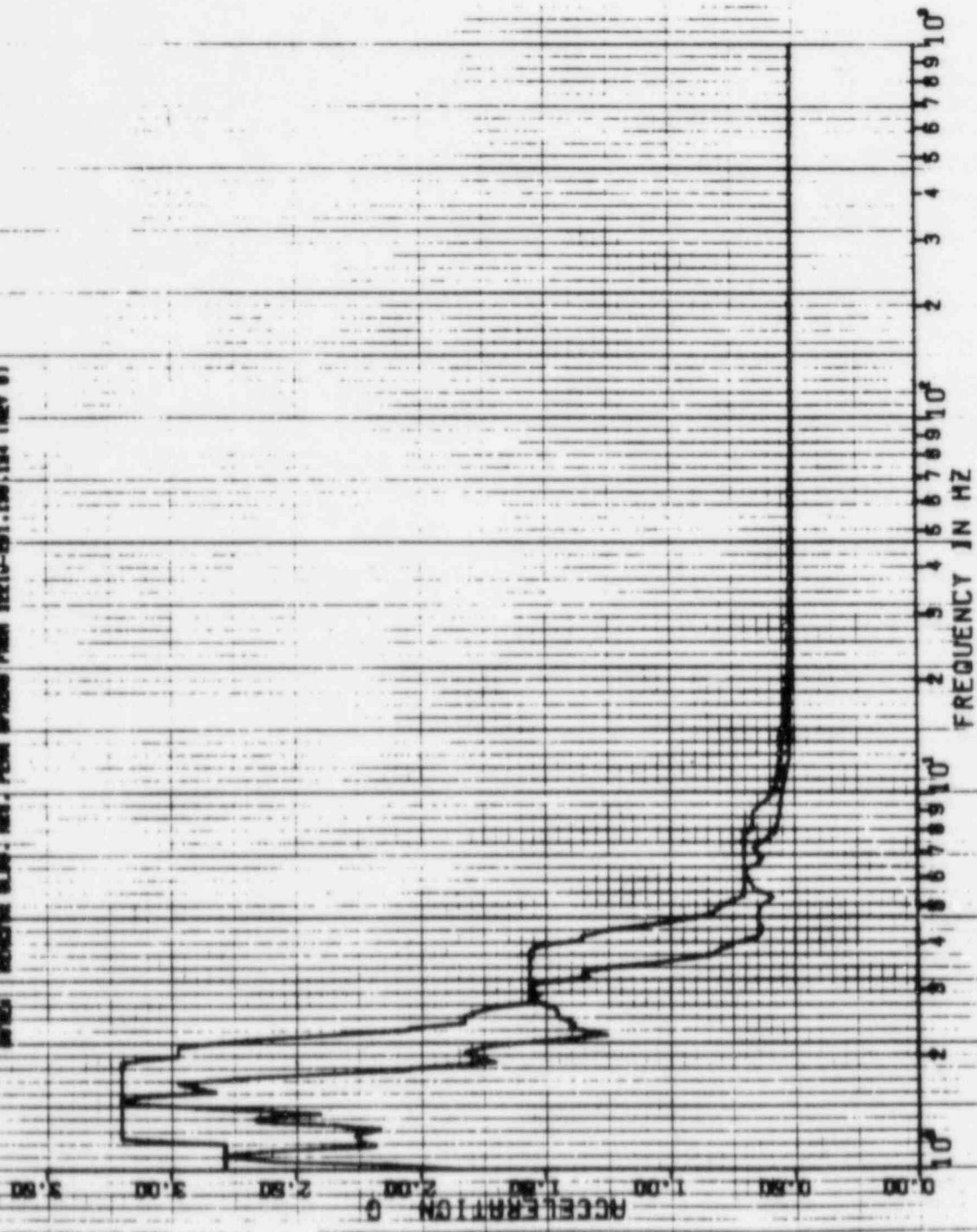
K.KAY

DAMPING VALUE = 0.050

SPECTRA VER 01 LEV 07
DULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-SSE-1903 REV(0)
RIS OF MCC-REACTOR BLDG-EL-239.20, MASS-16 SEIS MODEL-STEEL CONT.
PEAK SPREAD -2011+252
DISK CURVE SET NO.30

1.0 SSE HOR DIRECTION

UNIT: INCHES/SEC. RMS. FROM SPREAD FROM SECT10-291.739.134 (REV 9)



-150A

PSPECTRA VER. 01 LEV. 07

GULF STATE UTILITIES-RBS UNIT 1-CALCULATED-NH101-SDE-1988-REV101
RIS OF REC-REACTOR BLOC-EL-298-20-NH55-16 SENS MODEL-SPEEL CON-
PERK SPREAD-20Z-25Z

DISK CURVE SET NO. 01

1 DI 55E

HDR DIRECTION

note: REACTOR BLOC WAS PEAK SPREAD FROM 4210-401.5G-114.1KEN D)

22 APR 1982

K. KRY

DAMPING VALUE = 0.000

2.00

2.00

2.00

1.00

1.00

0.50

0.50

0.50

ACCELERATION

10

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FREQUENCY IN HZ

PSPCLARR VER D3 LEV D7

CULF STAVE UNIT VTES-RBS UNIT 1-CALC 1221 D1NHTCJ-S01-1908 REV D3
 RRS OF ACC-REACTOR BLOC EL-238.20. MASS-15 SE15 MODEL STEEL CONT-
 PERK SPREAD-20V-25%

DISK CURVE SET NO. 30

A.D. SSE VER DIRECTION

DATE: READING 0.04 MASS PERM SPREAD /MOM (2210-300.150.124.14V b)

DAMPING VALUE = 0.040

22 APR 1982

K-ARY

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-SQE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.EL=95.000.MASS=17 SEIS MODEL-PSM.PEDESTAL
PEAK SPREAD -20%+25% 08E

K.KAY

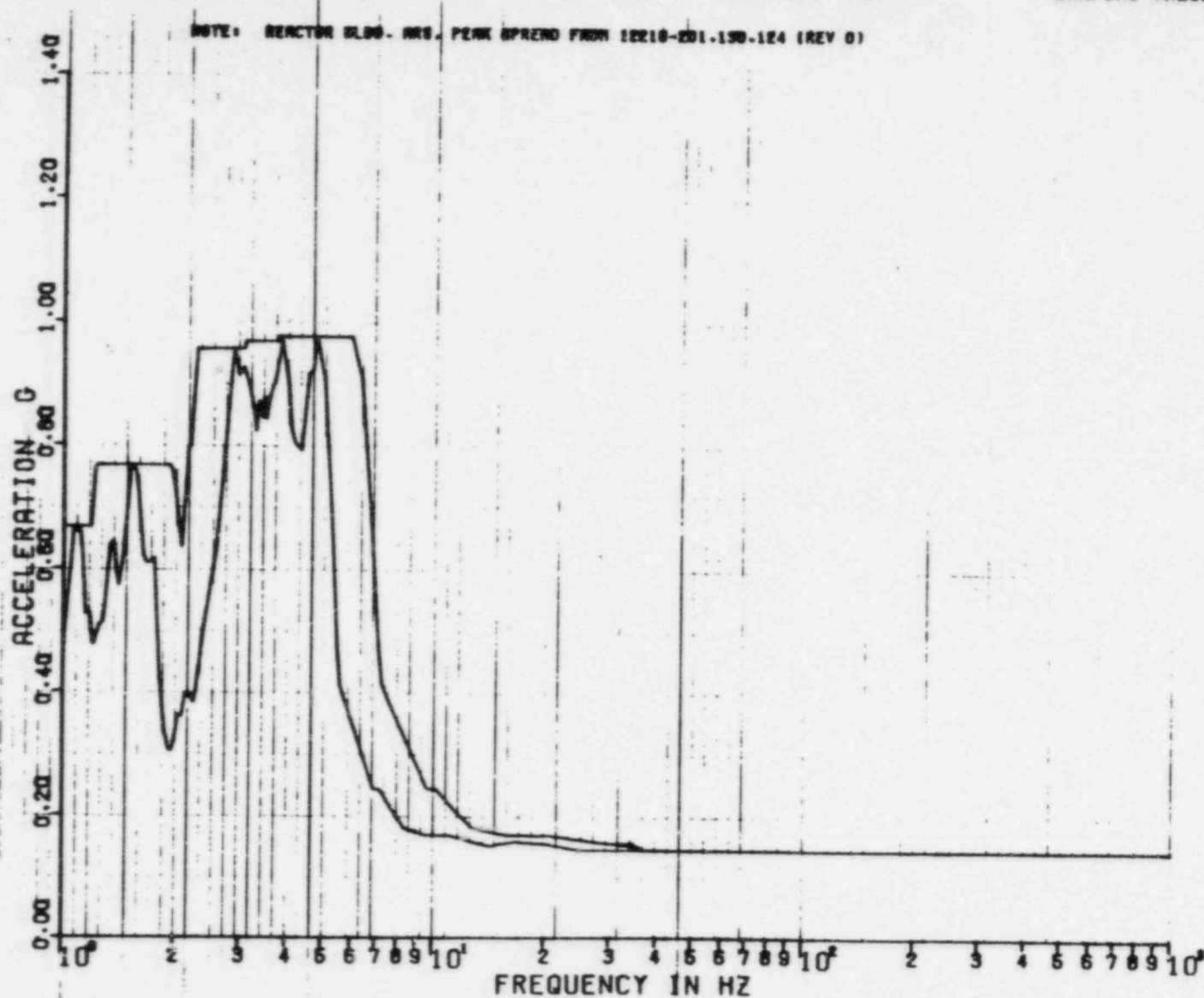
DISK CURVE SET NO.31

0.5 GSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 86

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG.EL=95.000,MASS=17 SEIS MODEL-PSW,PEDESTAL
PEAK SPREAD -20%,+25% OBE

K.KAY

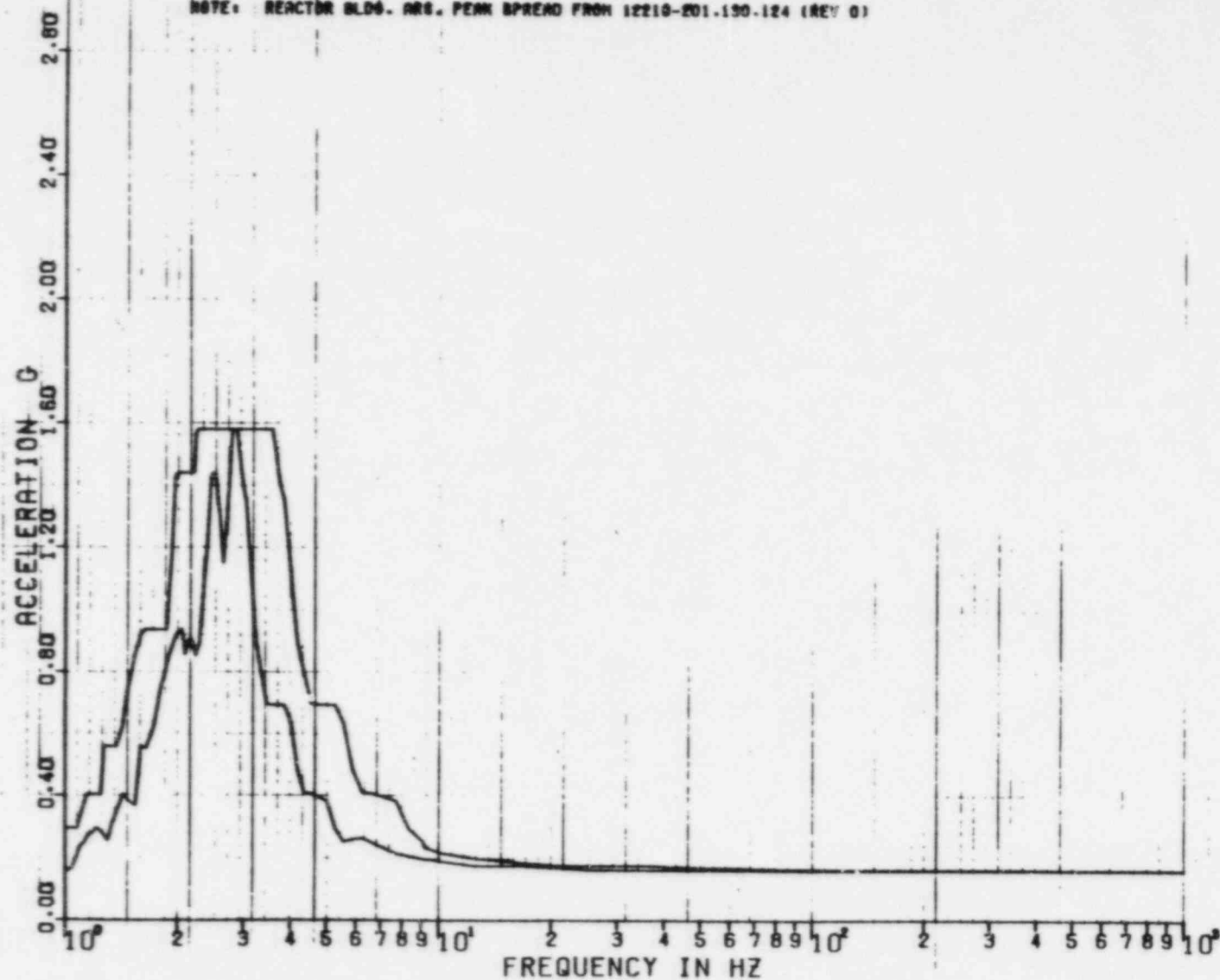
DISK CURVE SET NO.91

0.5 GSE

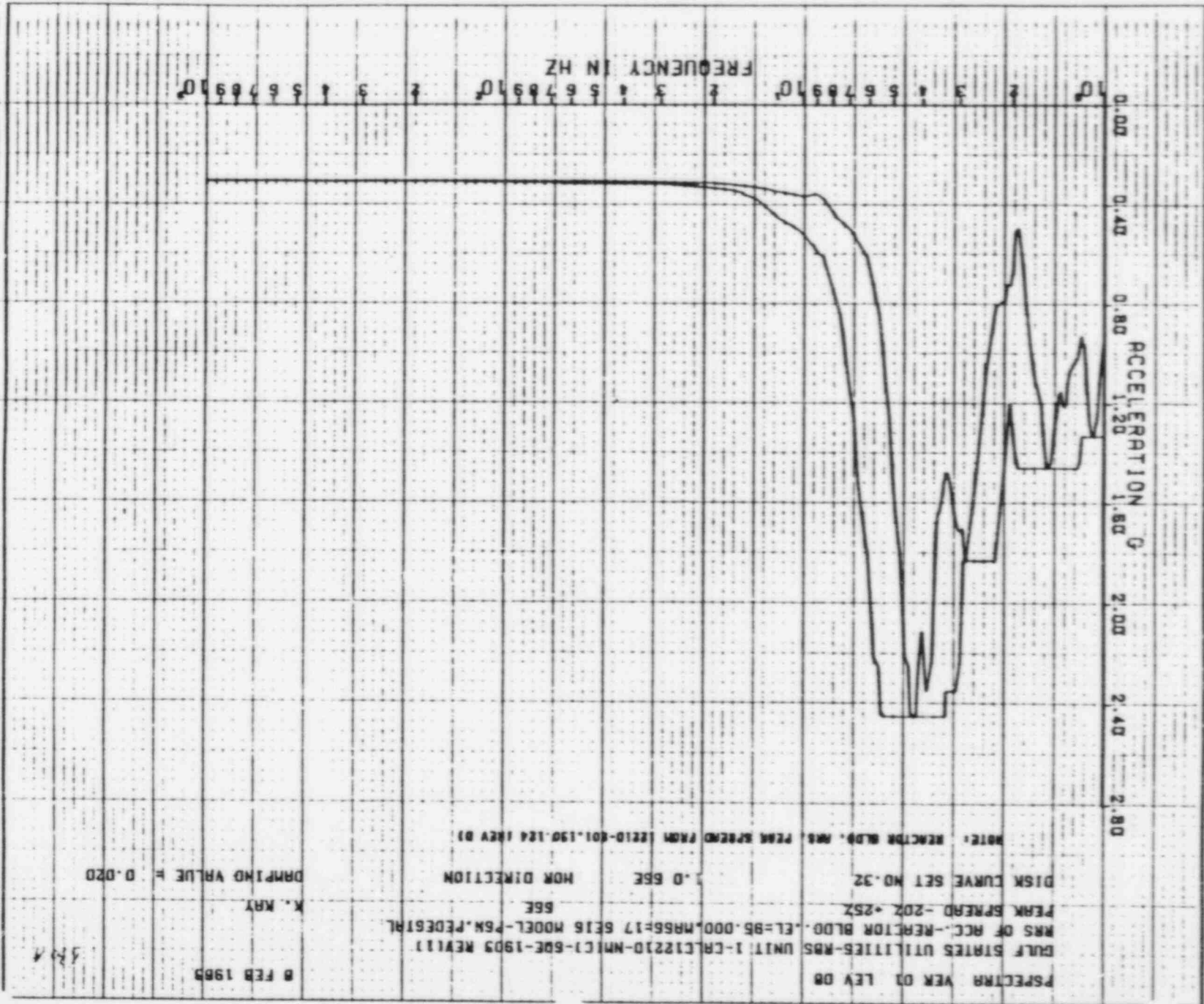
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.190.124 (REV 0)



REF 86



SPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMIC1-6DC-1903 REV11
 RMS OF ACC.-REACTOR BLDG., EL=95.000, MASS=17 6E16 MODEL-76N, PEDESTAL
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO.32
 1.0 GSE
 MOD DIRECTION
 66E
 K. RAY
 DAMPING VALUE = 0.020
 8 FEB 1983
 534

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 1210-130.124 (REV B)

8 FEB 1963

K. KAT

DAMPING VALUE = 0.020

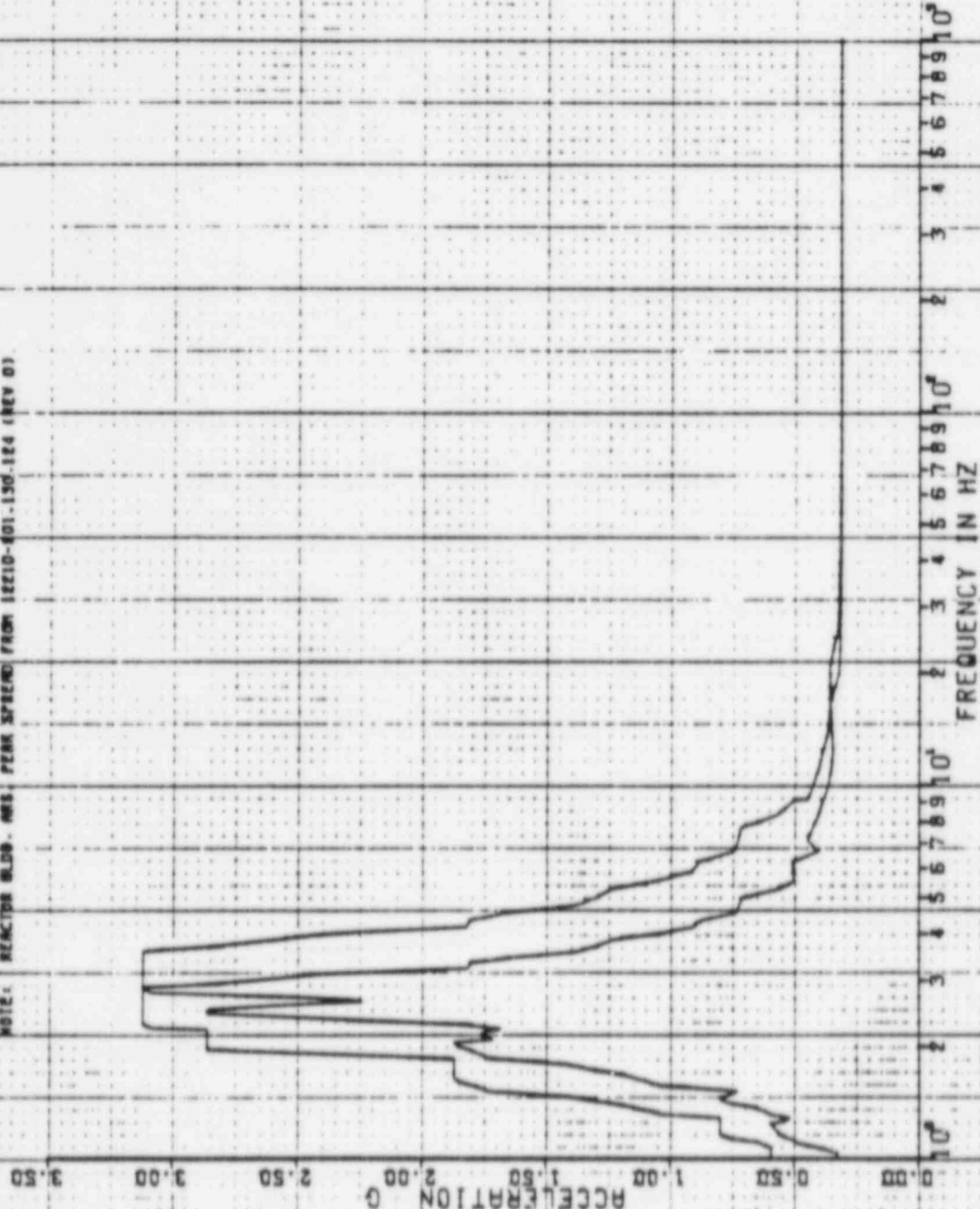
PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MN1C1-50E-1903 REV11)
RBS OF ACC.-REACTOR BLDG.-EL-95-000-MASS-17 SE16 MODEL-PSW.PEDESTAL
PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.32

1.0 55E VER DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-601.130-124 (REV 0)



10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸ 10⁹ 10¹⁰

FREQUENCY IN HZ

367A

22 APR 1982

KRAY

DAMPING VALUE = 0.050

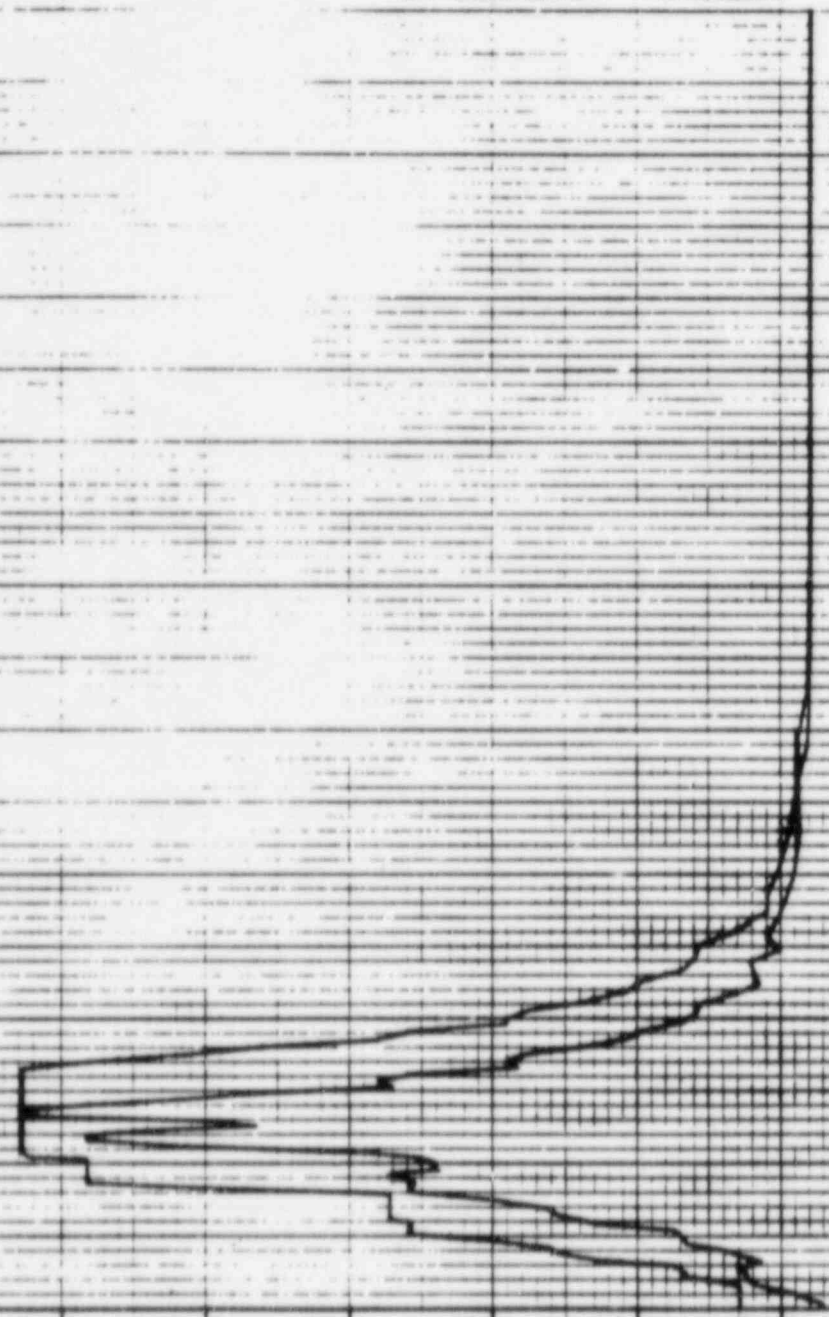
SPECTRA VER 01 LEV 07
DUL STATE UTILITIES-RBS UNIT 1-CALC12210-MWIC1-SUC-1903 REV 01
RMS OF ACCEL-RECTOR BLDO.EL=95.000.MASS=17 SEIS MODEL-PSM.PEDESTAL
PEAK SPREAD=201.25Z
DISK CURVE SET NO.32

1.0 SSE VER DIRECTION

NOTE: RESPONSE IN 1.0 SSE FROM 0.018-0.130 (REV 01)

ACCELERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80

FREQUENCY IN HZ 1 2 3 4 5 6 7 8 9 10



1732/9

COAST GUARD VESSEL

[illegible]

005 OF 111 - REACTION BOARD - L=95.000, MASS=17.5615, MODEL=PSW, PEDESTAL
 006 SPEED=20V, 25V 55

PEAK SPREAD: 20V, 25V

DISK CURVE SET VOL 32

350

HDR DIRECTION

DAMPING VALUE = 0.000000

[illegible]

RECEIVED

1

5

7

[illegible]

1

100

5

5

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5

2

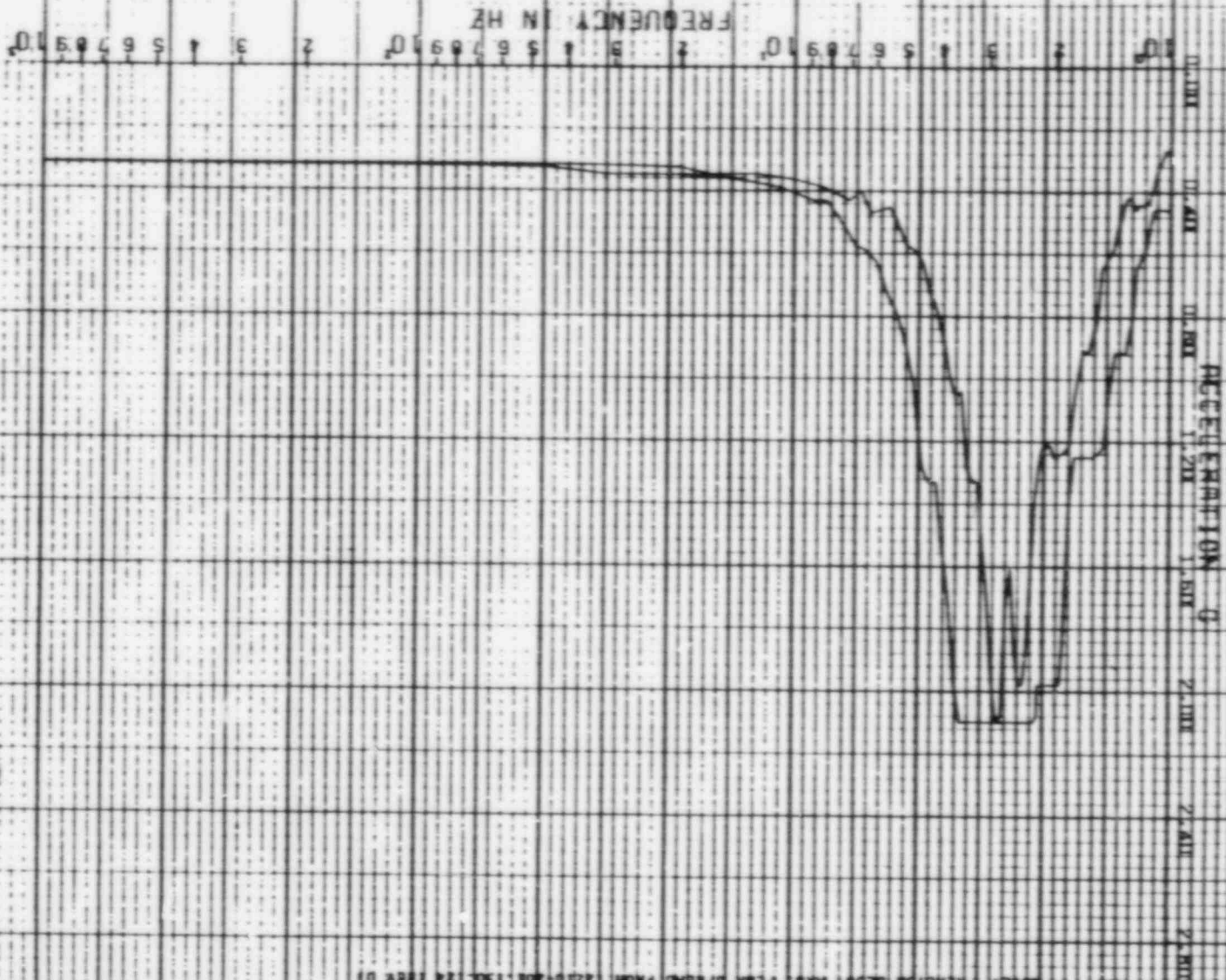
7

15

22 APR 1982

GOLF STATE UTILITIES-RBS UNIT 1-CALCULATED-NH11-502-1909 KEY(D)
RMS OF ACCL-REACTOR BLDG-EL-95-000-MH55-17 5015 MODEL-PSM-PEDESTAL
PEAK SPEED-207-254
555

DATE: 04/01/2004 TIME: 14:00:00



PSPECTRA VER 01 LEV 07

22 APR 1982

2.5 x 10

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-WHIC1-SQE-1903 PEV(0)
 RRS OF ACC.-REACTOR BLDG.-EL-101.00, MASS=18 SEIS MODEL-PSM, PEDESTAL
 PEEK SPREAD -20%,-25Z

K.KAY

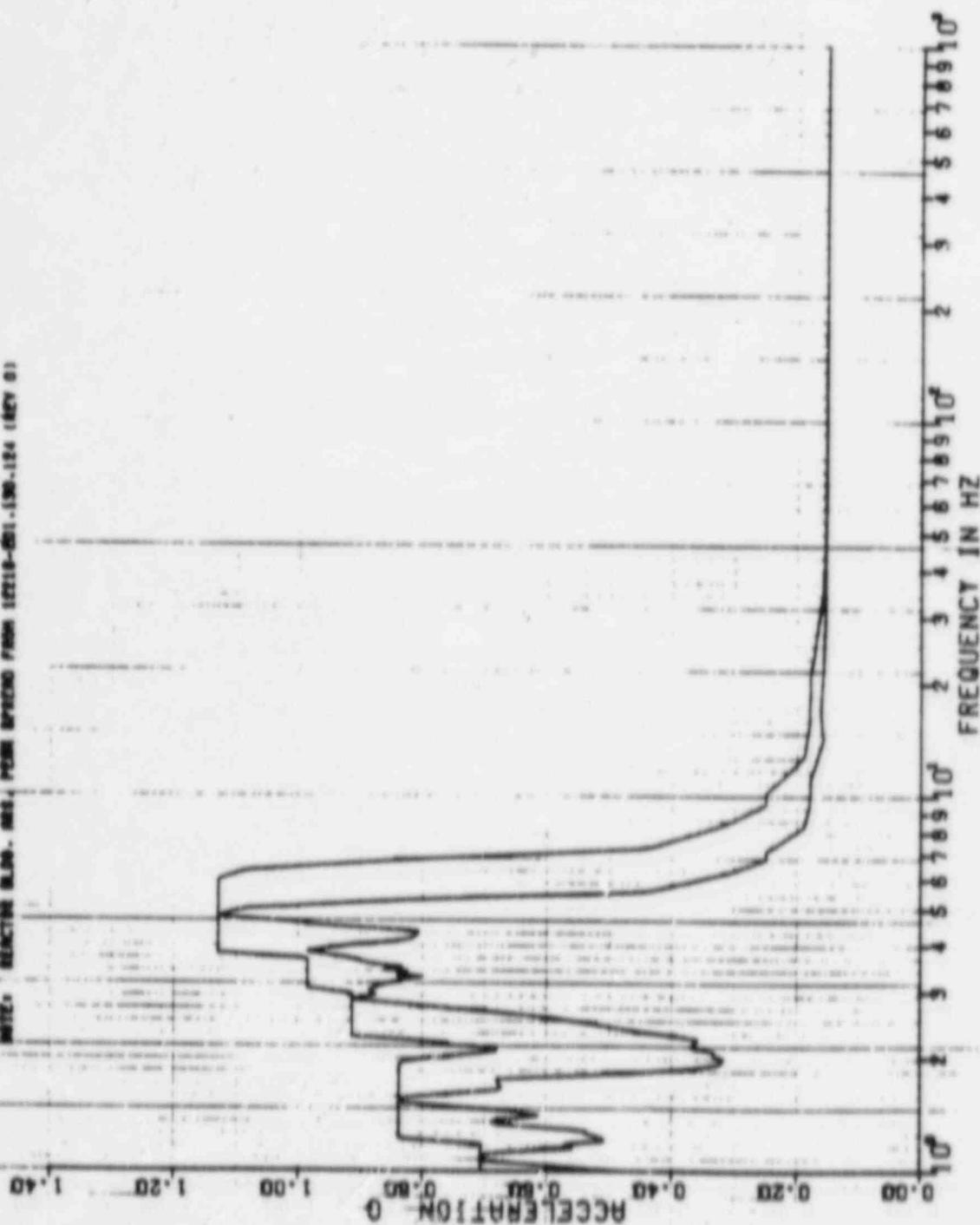
DAMPING VALUE = 0.020

JISK CURVE SET NO-33

0.5 SSE

HOR DIRECTION

NOTE: REACTOR BLDG. HAS PSM SPREAD FROM 12210-251.130-124 (REV 6)



PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MHIC1-802-1903 REV101
 RRS OF ACC--REACTOR BLDN. EL-101.00, MASS=18 SEIS MODCL-PSM, PEDESTAL
 PEAK SPREAD -202.+252

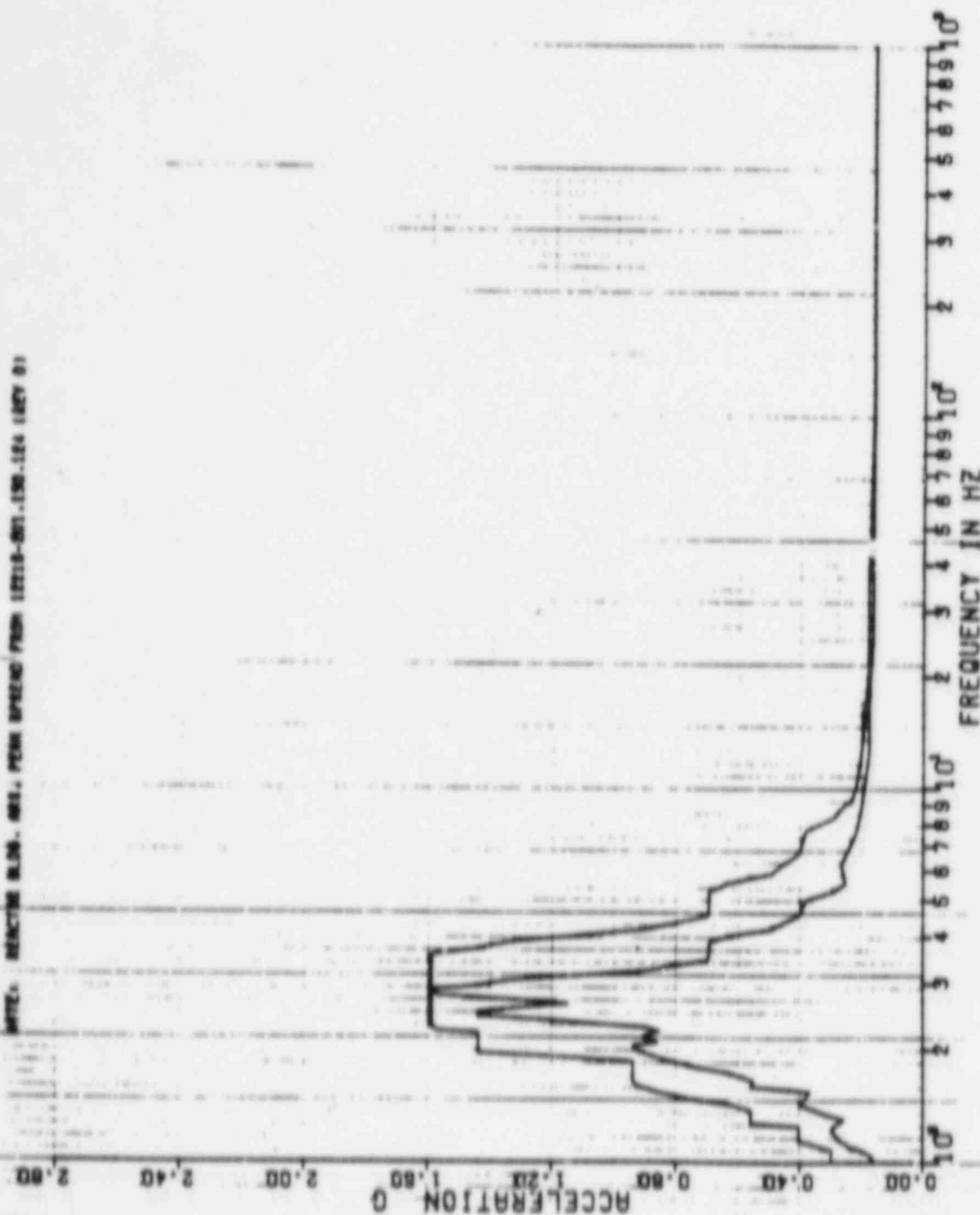
DISK CURVE SET NO. 33

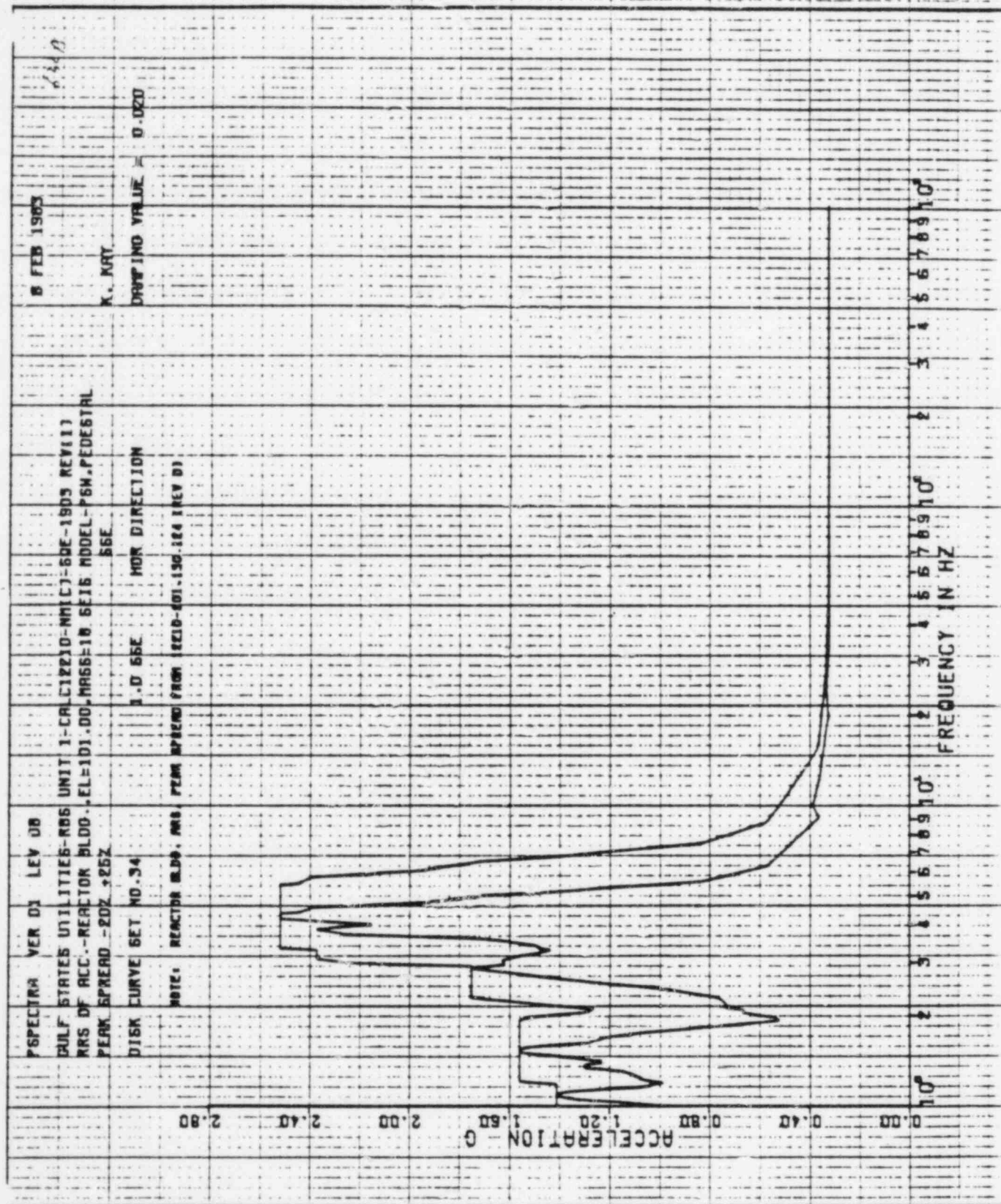
0.5 SSE

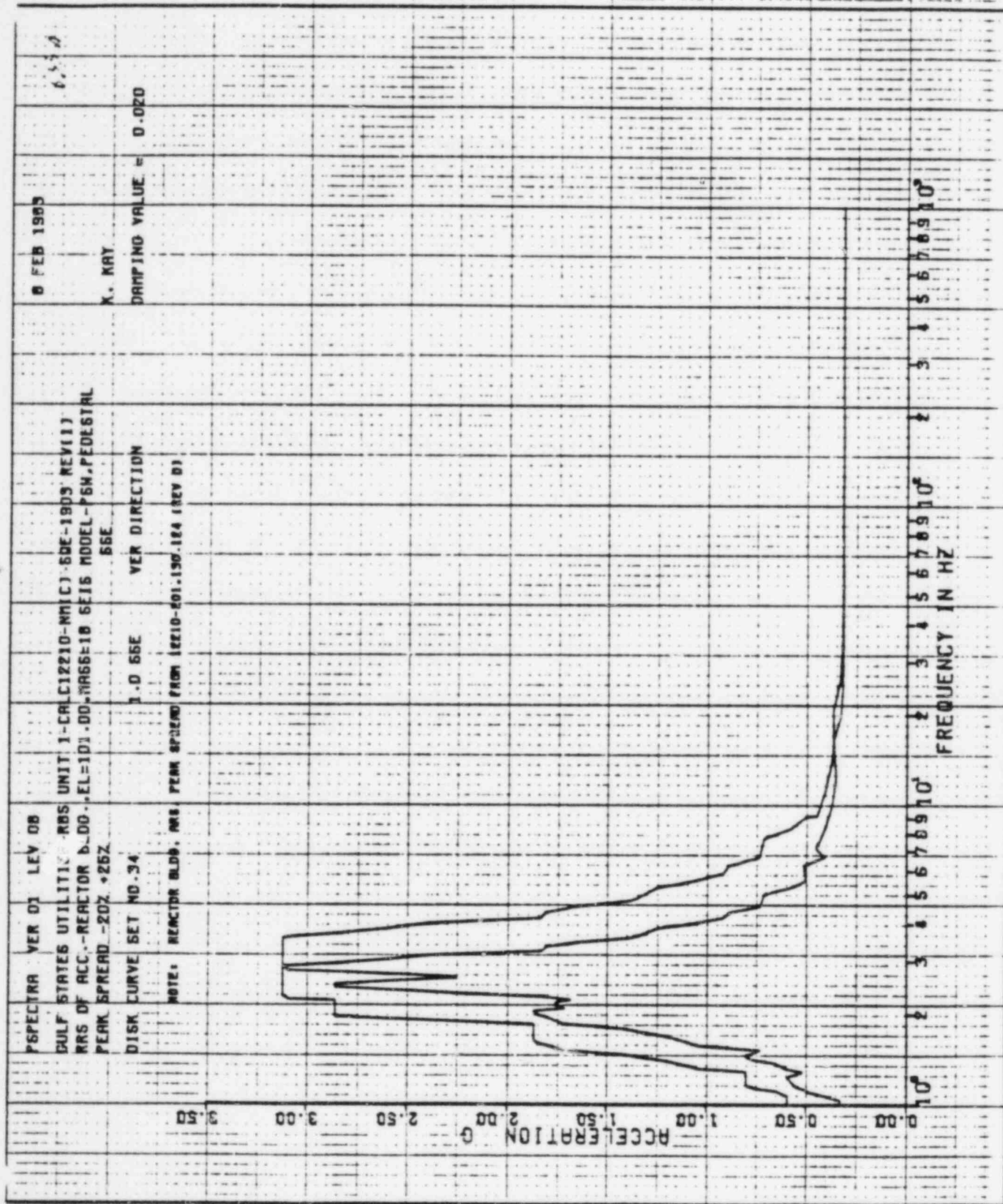
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTING BLDN. ORS. PEAK SPREAD FROM 12210-001.130-124 (REV 01)







SPECTRA VER 01 LEV 07

DAUP WHITE UTILITIES-RDS UNIT 1-CALC12210-MN(C)-S02-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL=101.00, MASS=18 SE16 MODEL-P&H PEDESTAL
 PERK SPREAD -20Z. >25Z

DISK CURVE SET NO. 34

1-0 55E

HOR DIRECTION

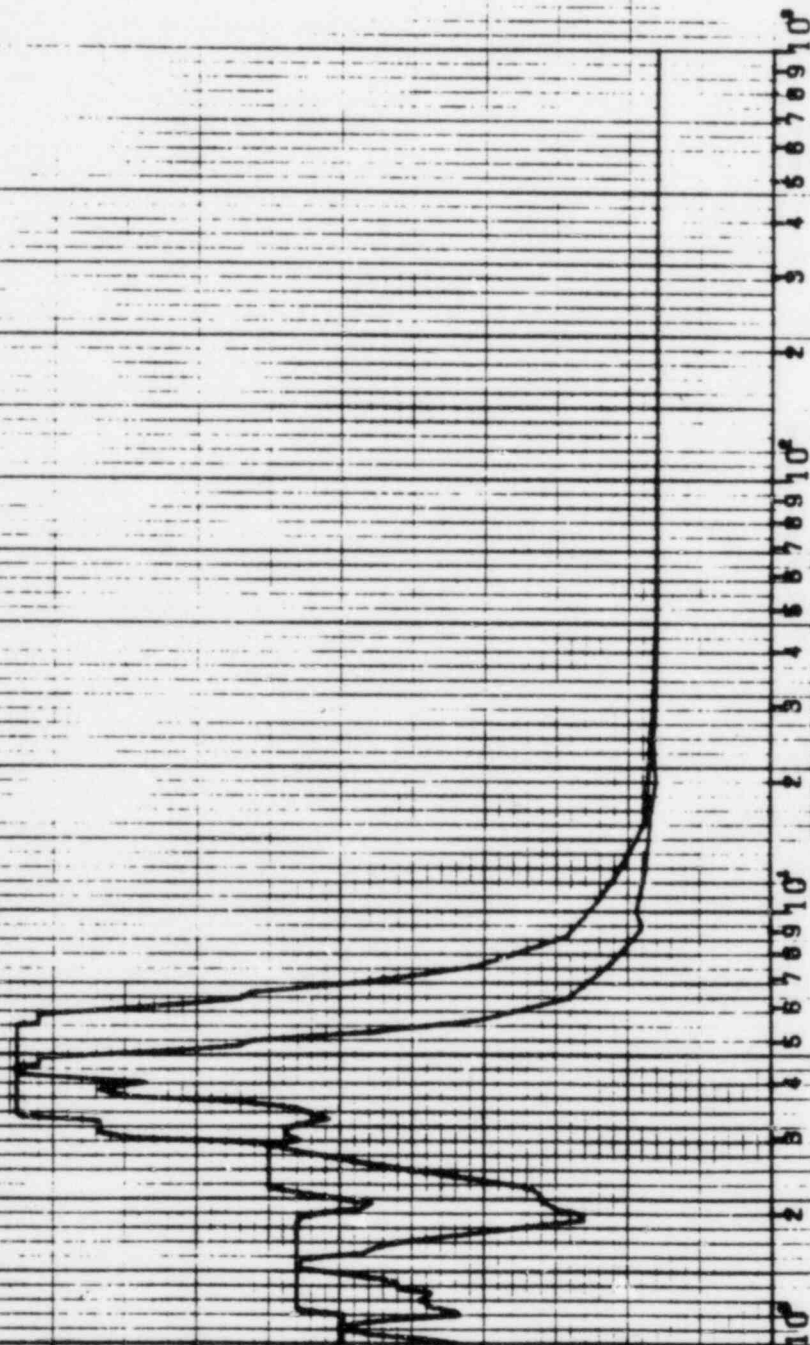
NOTE: INACTIVE WLD. MMS. FROM IMPROVED PWR (2016-2017) (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.090

REGENERATION 0 0.40 0.80 1.20 1.60 2.00 2.40 2.80



FREQUENCY IN HZ

22 APR 1982

K-KAY

DAMPING VALUE = 0.030

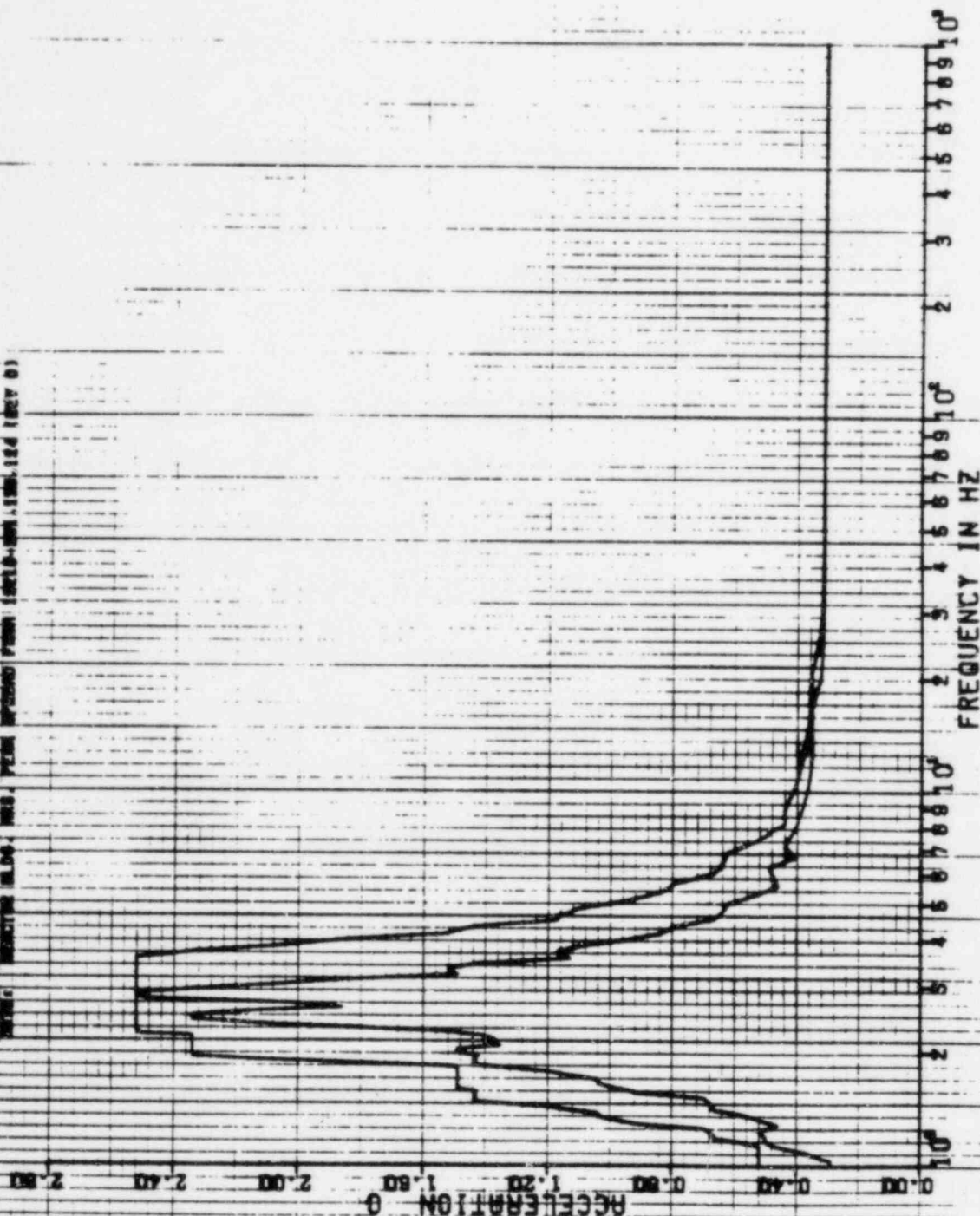
SPECTRA VER 01 LEV 07

ONLY STATE UTILITIES-493 UNIT 1-CALC12210-WNIC7-SQE-1903 REV(0)
 MADE BY MCL-REACTOR BLDG-FL=101-00-MASS=18 SEIS MODEL-PSM-PEDESTAL
 1-LEAK SPEED - PDL-125Z SSE

DISK DRIVE SET NO. 94

1-D 55E
VER DIRECTION

THE UNIVERSITY OF CHICAGO PRESS



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC 12210-NH 13-50E-1989 REV 01
 RRS OF ACC-REACTOR BLDG-EL-01-00-MASS-18 SE-5 MODEL-PSM-PEDestal
 PEAK SPREAD-202.555

DISK CURVE SET NO. 01

1-D 55E HDR DIRECTION

DAMPING VALUE = 0.010

DATE: REACTOR M06, RBS, PEAK SPREAD (MON 12210-20) 130.14 186V. 0

2.800

2.400

2.000

1.600

1.200

0.800

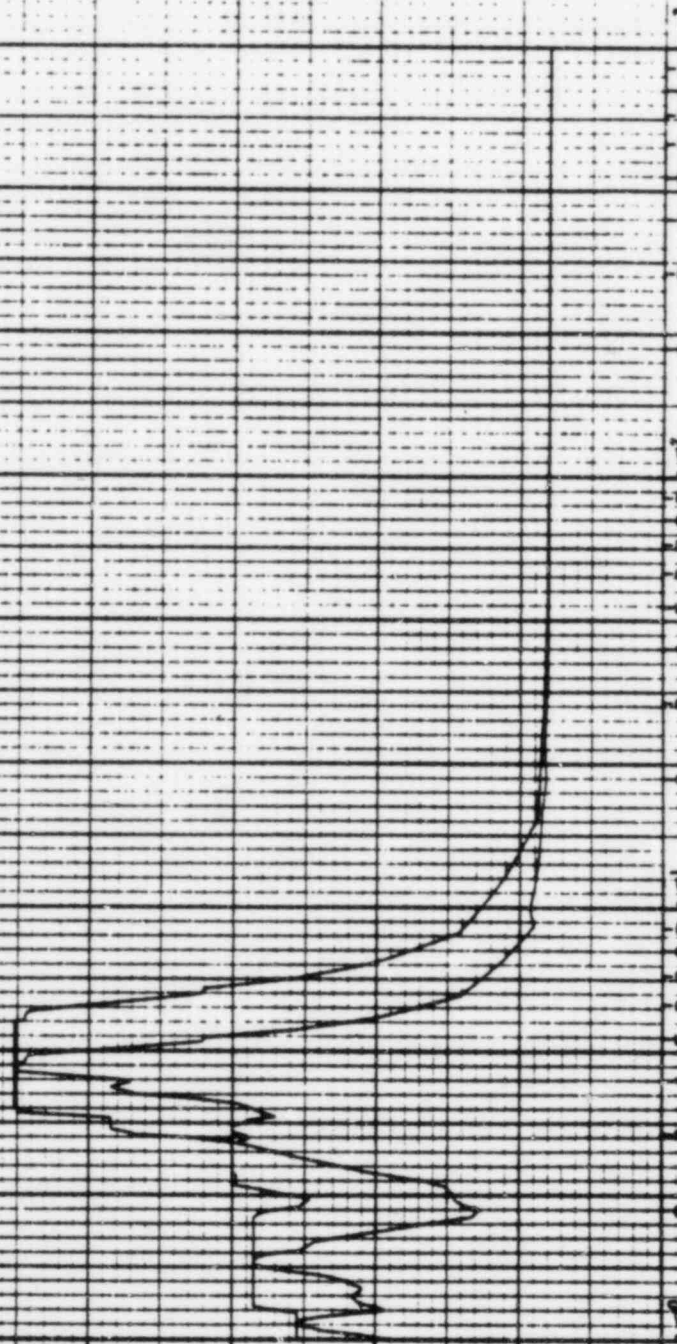
0.400

0.000

ACCELERATION G

10⁰ 2 5 4 5 6 7 8 9 10⁰ 2 5 4 5 6 7 8 9 10⁰ 2 5 4 5 6 7 8 9 10⁰

FREQUENCY IN HZ



22 APR 1982

KL KAY

PSPECTRA VER 01 LEV 07

COLF STATE UTILITIES-RBS UNIT 1-CALC12210-NM13-SOE-1008 REV 03
 RBS OF ALL REACTOR BLOC-EL-101-00-MASS-18 SEIS MODEL-PSM-PEDESTAL
 PEAK SPREAD 20V.25V

DISK CURVE SET NO.18A

D 55E

VER DIRECTION

NOTE: REACTOR BLOC. PK3, PEAK SPREAD FROM 12210-201 (SO. 14 100V b)

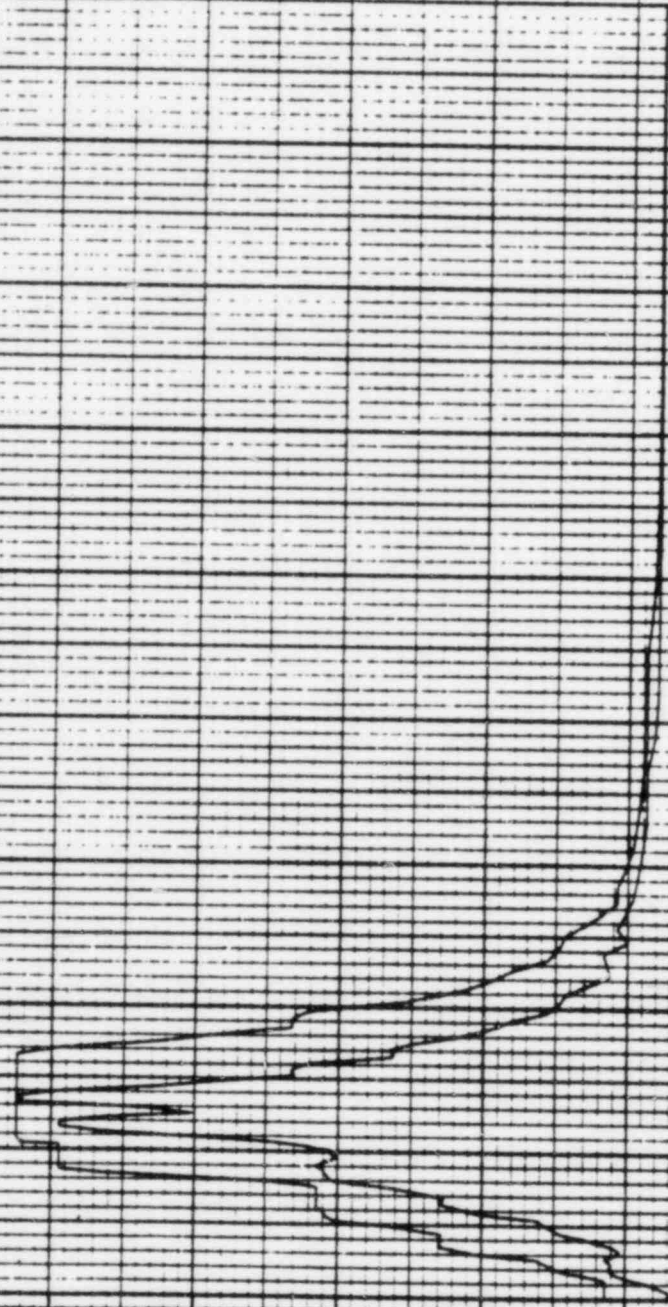
DAMPING VALUE = D-DNO

K. KRY

22 APR 1982

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RES UNIT 1-CALC12210-NM(C)-80E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=117.00.MASS=19 SETS MODEL-PSW.PEDESTAL
 PEAK SPREAD -20Z.+25Z
 08E

DISK CURVE SET NO.35

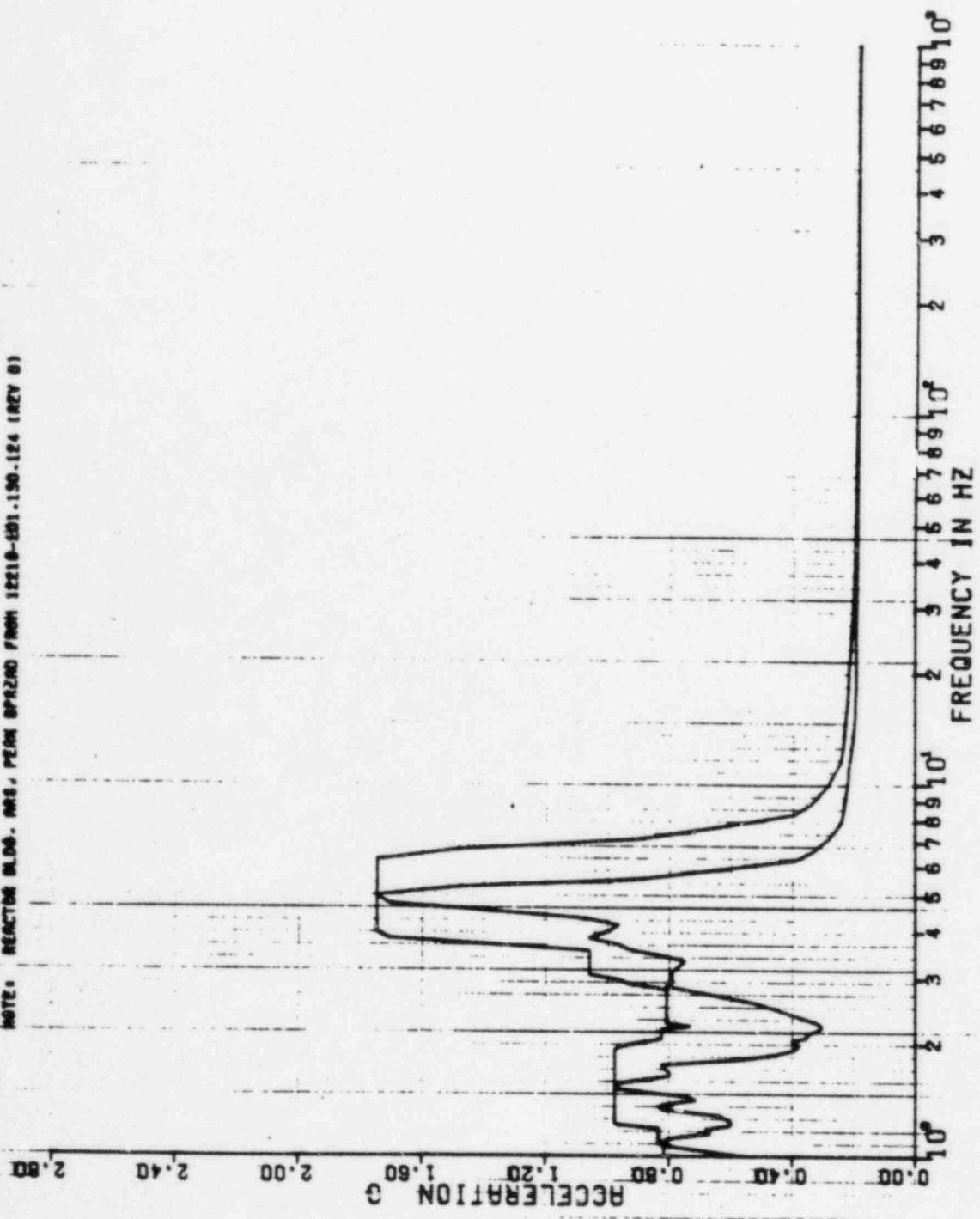
0.5 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-1231.150-124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RDS UNIT 1-CALC12210-NH(C)-SGE-1909 REV(0)
 RRS OF ACC.-REACTOR BLDG.-EL=117.00.MASS=19 SETS MODEL-PSM,PEDESTAL
 PEAK SPREAD -20%+25%

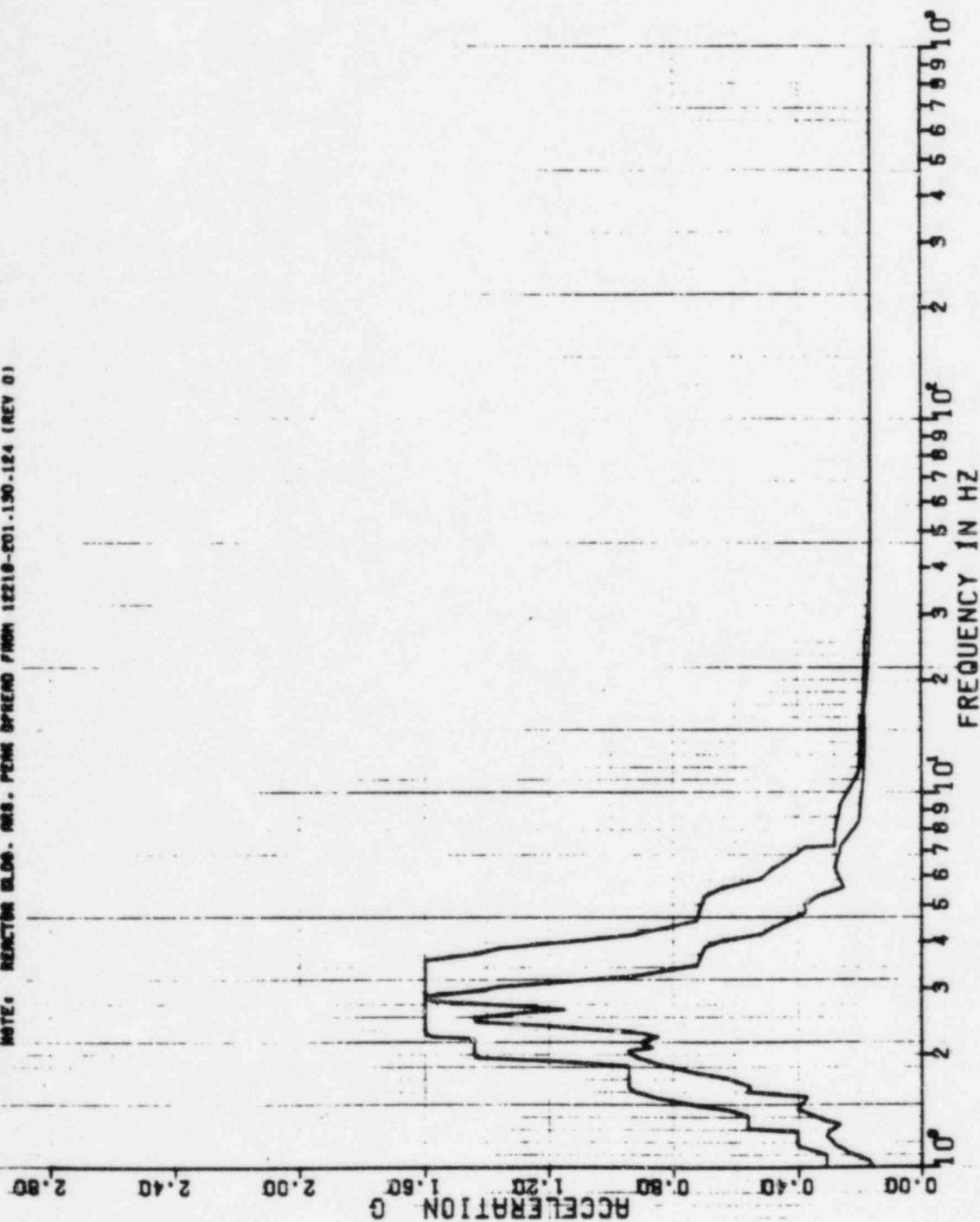
DISK CURVE SET NO.35

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEMS SPREAD FROM 12210-201.150-124 (REV 0)



22 APR 1982

2.170

K.KAY

8 FEB 1983

K. KRY

DAMPING VALUE = 0.020

UNIT 1-CALCIC2210-MM(C)-SDE-1983 REV11

RRS OF ACC.-REACTOR BLDG.-EL-117.00, HAS66-19 SE16 MODEL-76W

55E

PEAK SPREAD -20Z +25Z

1.0 55E HDR DIRECTION

DISK CURVE SET NO.36

NOTE: REACTOR BLDG. HAS, PEAK SPREAD FROM 1210-101.150-124 (REV D)

3.50

3.00

2.50

2.00

1.50

1.00

0.50

0.00

ACCELERATION

FREQUENCY IN HZ

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PSPECTRA VER 01 LEV 08

CULF STATES UTILITIES-RBS
RRS OF ACC. - REACTOR BLDG.
PEAK SPREAD - 20% +25%

DISK CURVE SET NO. 36

NOTE:

REACTOR BLDG. RBS

PEAK SPREAD FROM 12210-101.150.124 (REV D)

1.0 SSE

VER DIRECTION

SSE

K. KRY

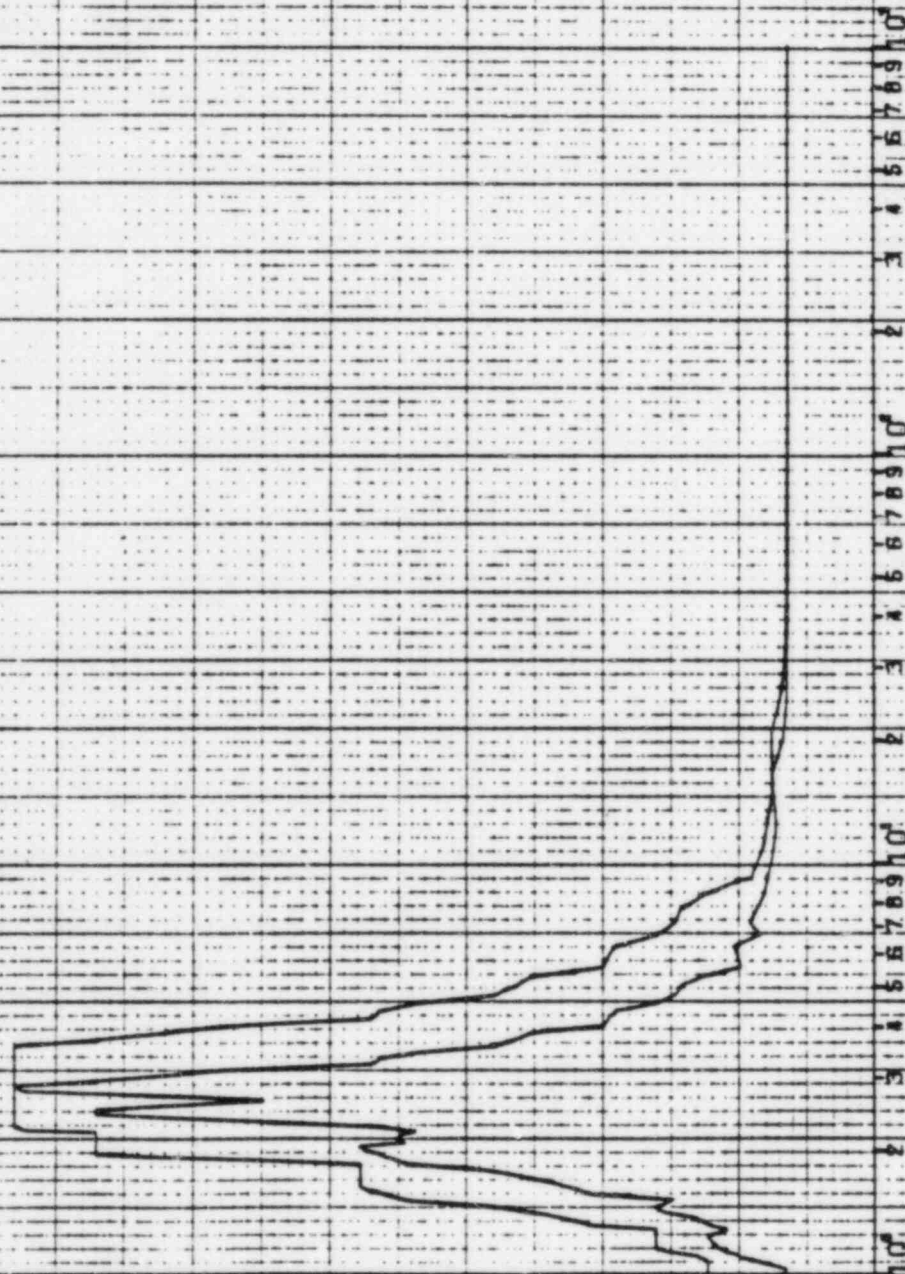
DAMPING VALUE = 0.020

8 FEB 1983

2.5A

ACCELERATION

FREQUENCY IN HZ



22 APR 1992

370 A

K. KAY

DAMPING VALUE = 0.090

1
PBPCLN VER 01 LEV 07
DUL STATE UTILITIES-RDS UNIT 1-CALC12210-WHIC1-SGE-1003 REV(0)
NRS OF REC-NEXTOR 81.00-EL-117.00-MASS-19 SEIS MODEL-P4M-PEDESTAL
PEAK SPEED - FOL-25Z SSE

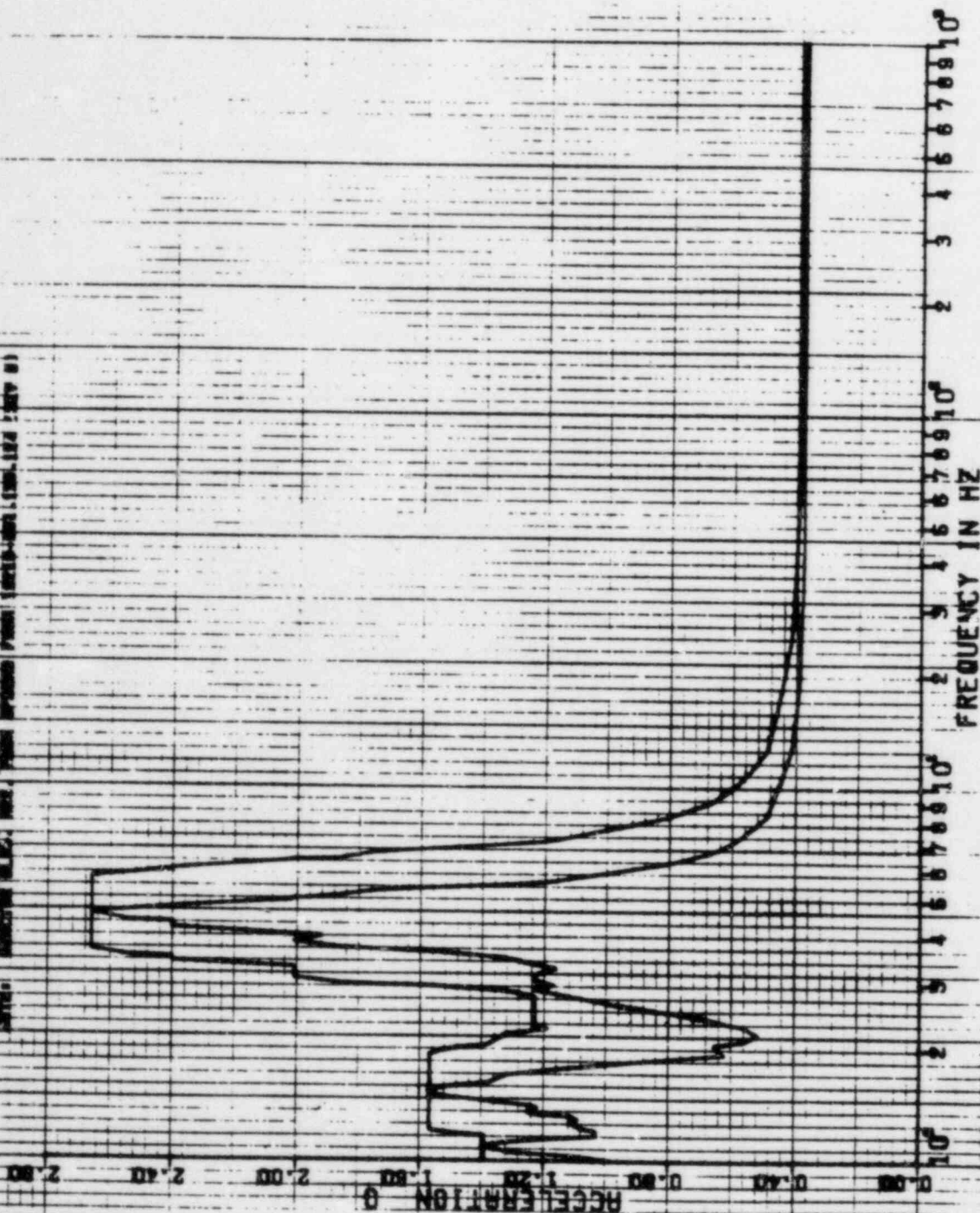
423

FOR DIRECTION

1.0 SSE

DISK CURVE SET NO. 98

一、二、三、四、五、六、七、八、九、十、十一、十二、十三、十四、十五、十六、十七、十八、十九、二十、二十一、二十二、二十三、二十四、二十五、二十六、二十七、二十八、二十九、三十、三十一、三十二、三十三、三十四、三十五、三十六、三十七、三十八、三十九、四十、四十一、四十二、四十三、四十四、四十五、四十六、四十七、四十八、四十九、五十、五十一、五十二、五十三、五十四、五十五、五十六、五十七、五十八、五十九、六十、六十一、六十二、六十三、六十四、六十五、六十六、六十七、六十八、六十九、七十、七十一、七十二、七十三、七十四、七十五、七十六、七十七、七十八、七十九、八十、八十一、八十二、八十三、八十四、八十五、八十六、八十七、八十八、八十九、九十、九十一、九十二、九十三、九十四、九十五、九十六、九十七、九十八、九十九、一百。



PSECTRA VER 01 LEV 07

DUL STATE UTILITIES-RBB UNIT 1-CMLC12219-RHIC)-SEE-1903 REV(0)
 RRS OF N.C.-REACTOR BLDG-EL-117.00, RRB5-19 SEE MODEL-PSM, PEDESTAL
 PERC SPEND -202.65X

DISK CURVE SET NO.36

1.0 SEC

VER DIRECTION

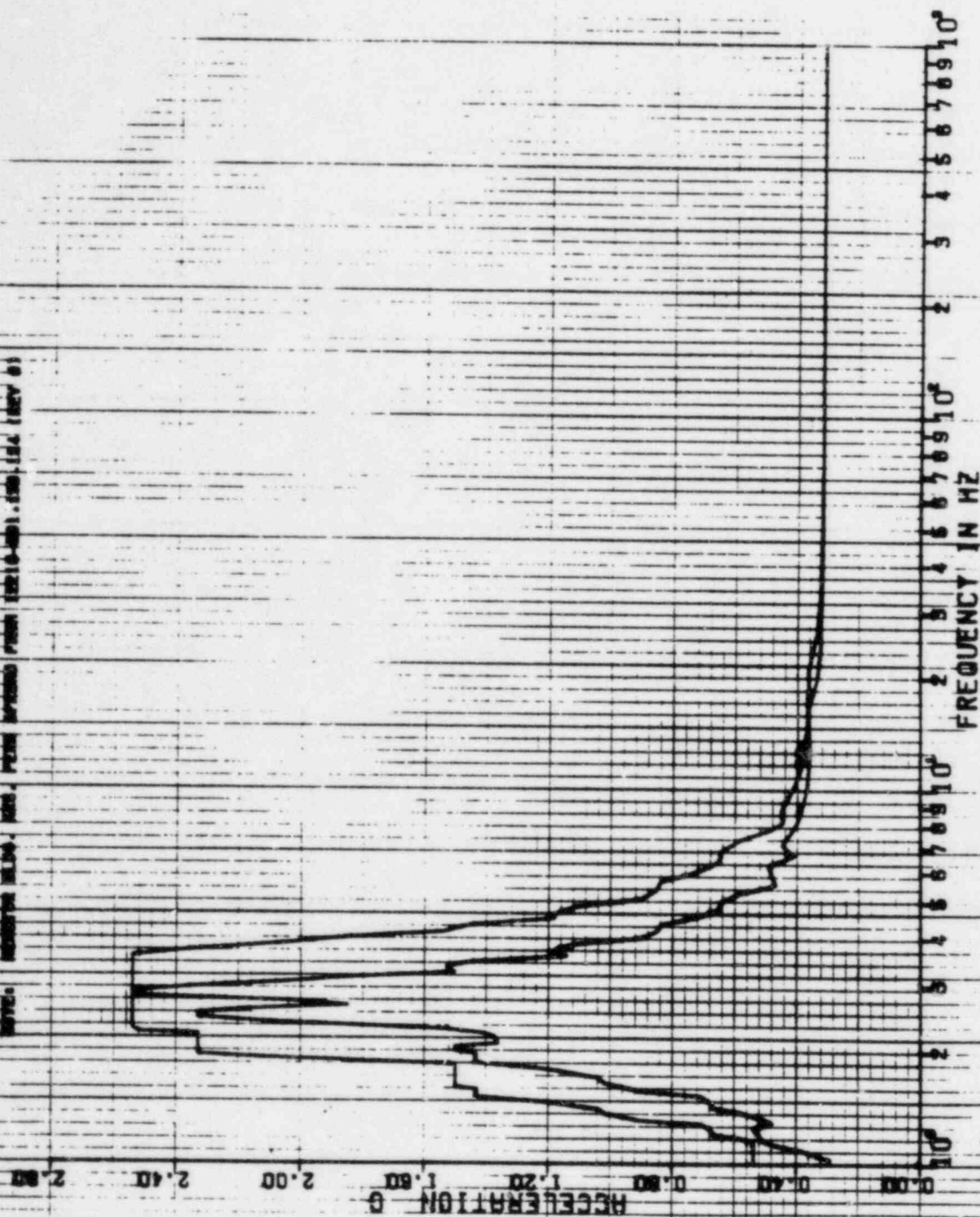
NOTE: MODIFIED BLDG. RRS. PERC SPEND FROM 1910-191.130, 154 (REV 0)

DAMPING VALUE = 0.030

K.KAY

22 APR 1982

211A



SPECTRA VER 01 LEV 07

CULY STATE UTILITIES-KBS UNIT 1 CALL 12710-NA 17-SOE-1905 REV 01
 RMS OF ACC. REACTOR BLOC. EL. 17.00, MASS 9 SEIS. MODEL PSM/PEDESTAL
 PEAK SPREAD 20% 1.57

DISK CURVE SET NO. 36

1.0 55E HDR DIRECTION

DATE: REACTOR BLOC. HAS. PLAK SPREAD FROM 12210-20, 1301 14 REV 0

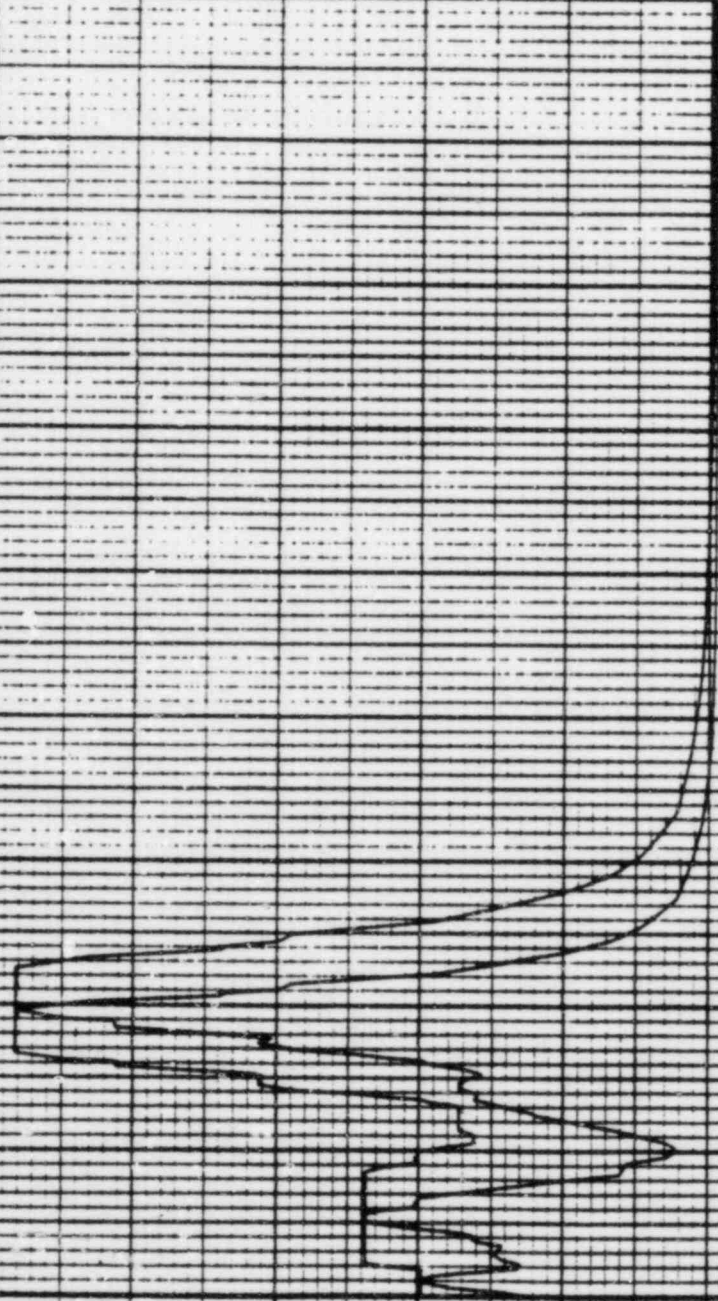
DAMPING VALUE = 0.010

K-KAY

22 APR 1982

4.04

ACCELERATION G



FREQUENCY IN HZ

22 APR 1982

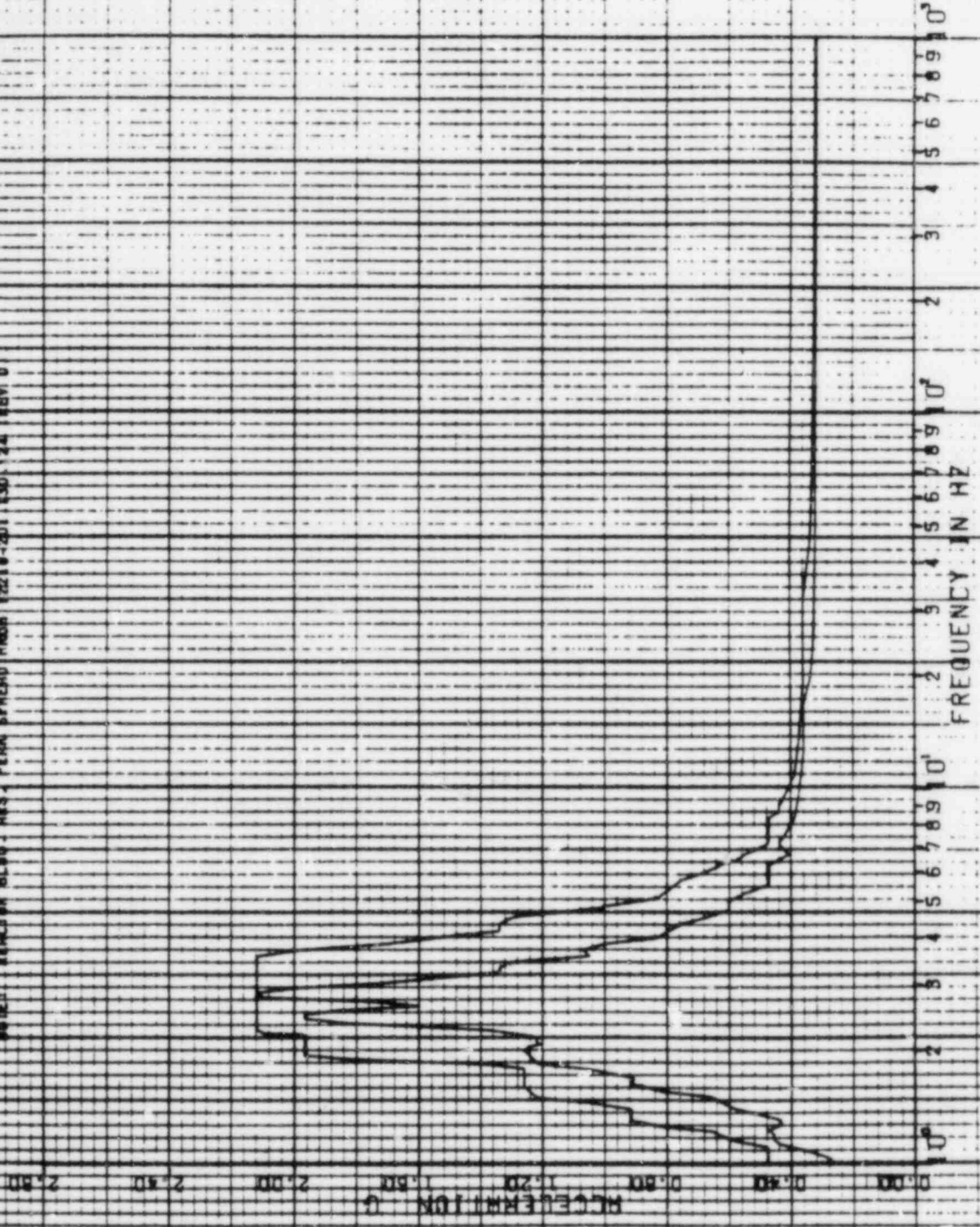
K-KAY

DAMPING VALUE = 0.010

PSPECTRA VER 01 LEV 07
 CULF STATE UTILITIES-RBS UNIT - ONLY (22.0 UNIT) - SOL-1903 REV 01
 RMS OF ACC. REACTOR BLOCK EL-17.00, MASS-19 SE 5 MODEL-PSM, PENESTAL
 PEAK SPREAD -207.952
 DISK CURVE SET NO.36

1.0 SSE VER DIRECTION

NOTE: REACTOR BLOCK RMS, PEAK SPREAD FROM (22.0-20) (30) (24) REV 0



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC(12210-MM(C)-S02-1903 REV(0)
RBS OF ACC.-REACTOR BLDG. EL-133.00, MASS=20 SEIS MODEL-PSM, PEDESTAL
PEAK SPREAD -20%, +25Z

K.KAY

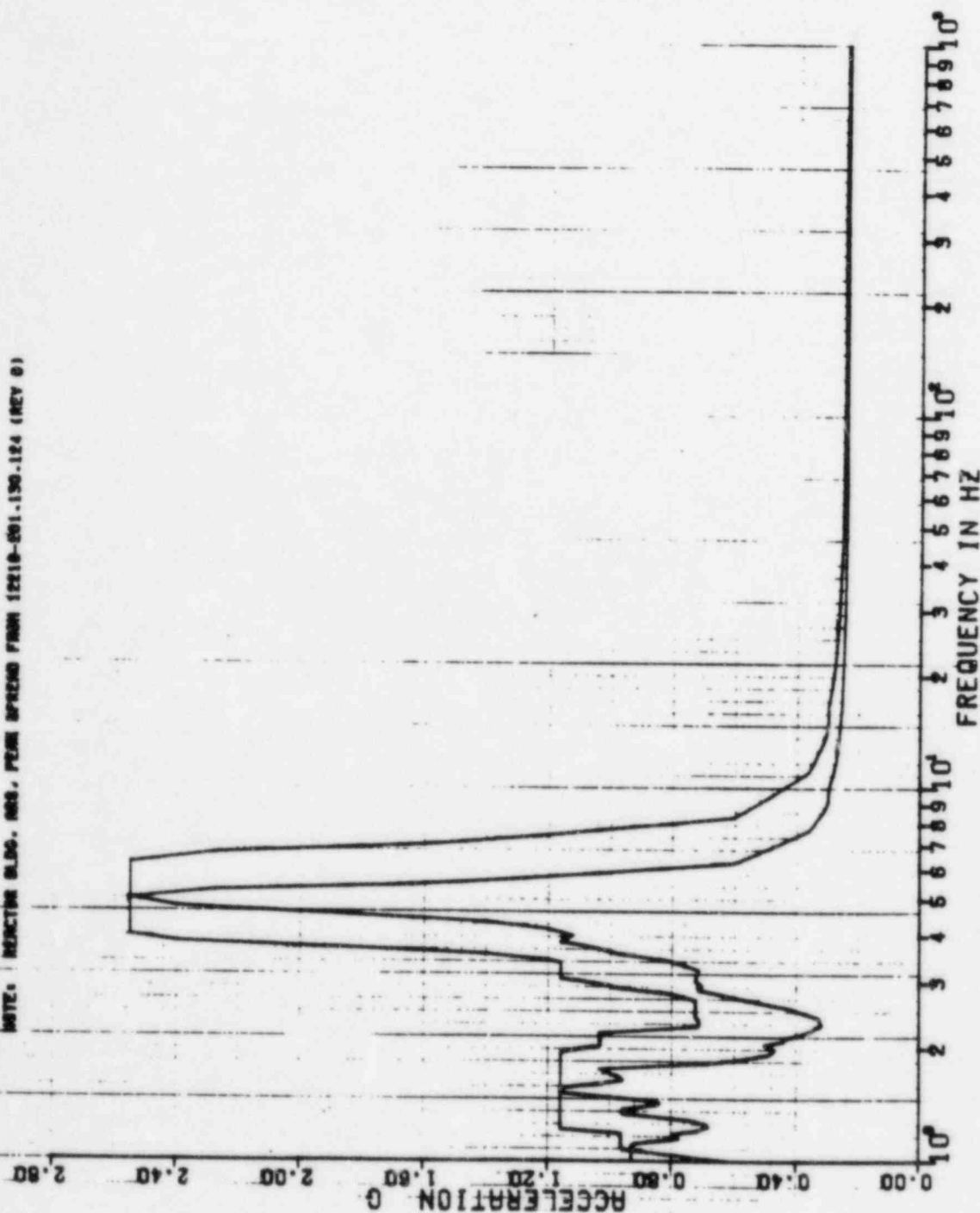
DAMPING VALUE = 0.020

HOR DIRECTION

G.5 SSE

DISK CURVE SET NO.37

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-001.130.124 (REV 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBB UNIT 1-CALC12210-NH(C)-50E-1909 REV10)
 RRS OF ACCL-REACTOR BLDG-EL=199.00.MASS=20 SCIS MODEL-PSM.PEDESTAL
 PEAK SPREAD -20%+25Z

DISK CURVE SET NO.37

0.5 SSE

VER DIRECTION

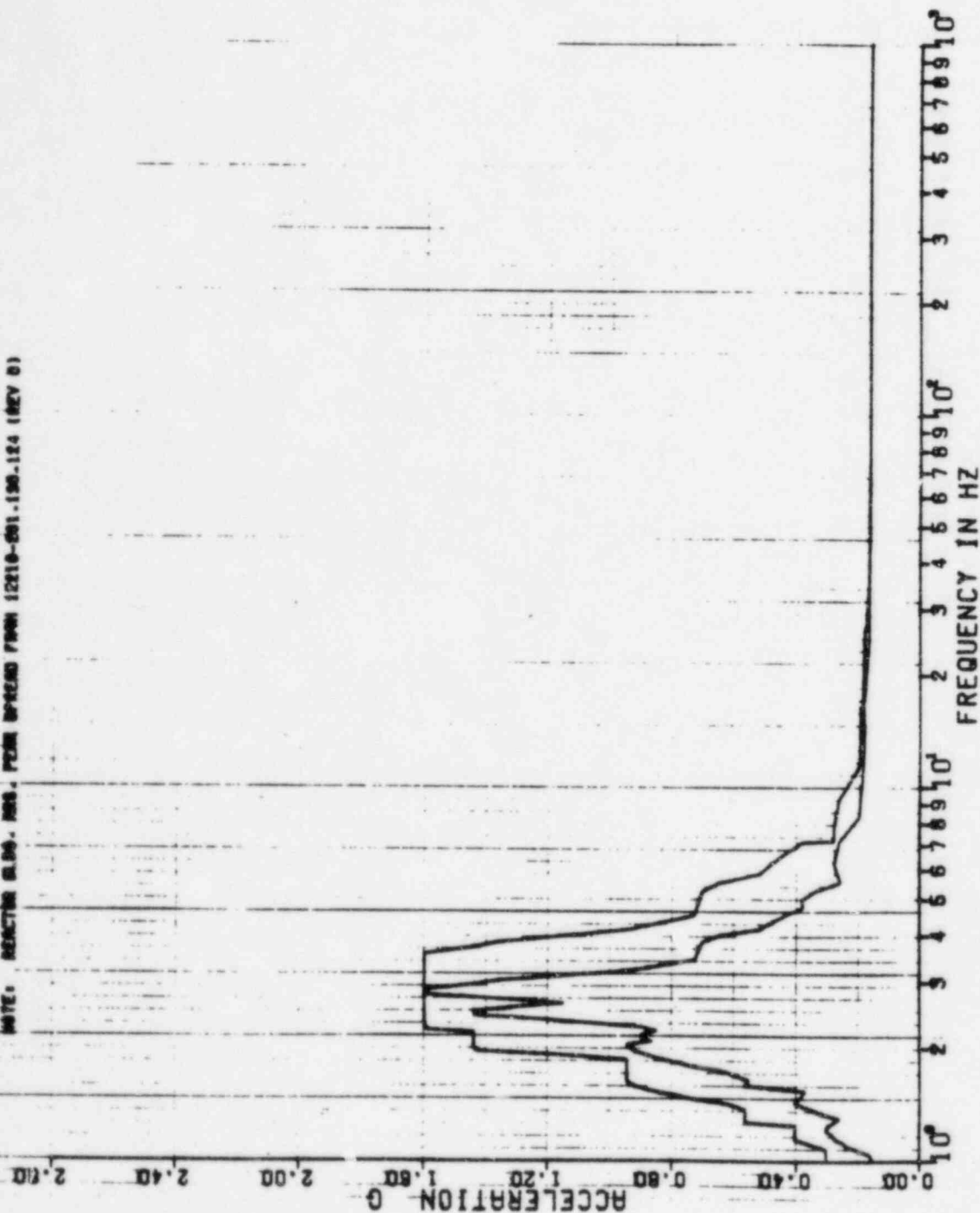
NOTE: REACTOR BLDG. MASS. FROM SPREAD FROM 12210-001.199-124 (REV 0)

22 APR 1962

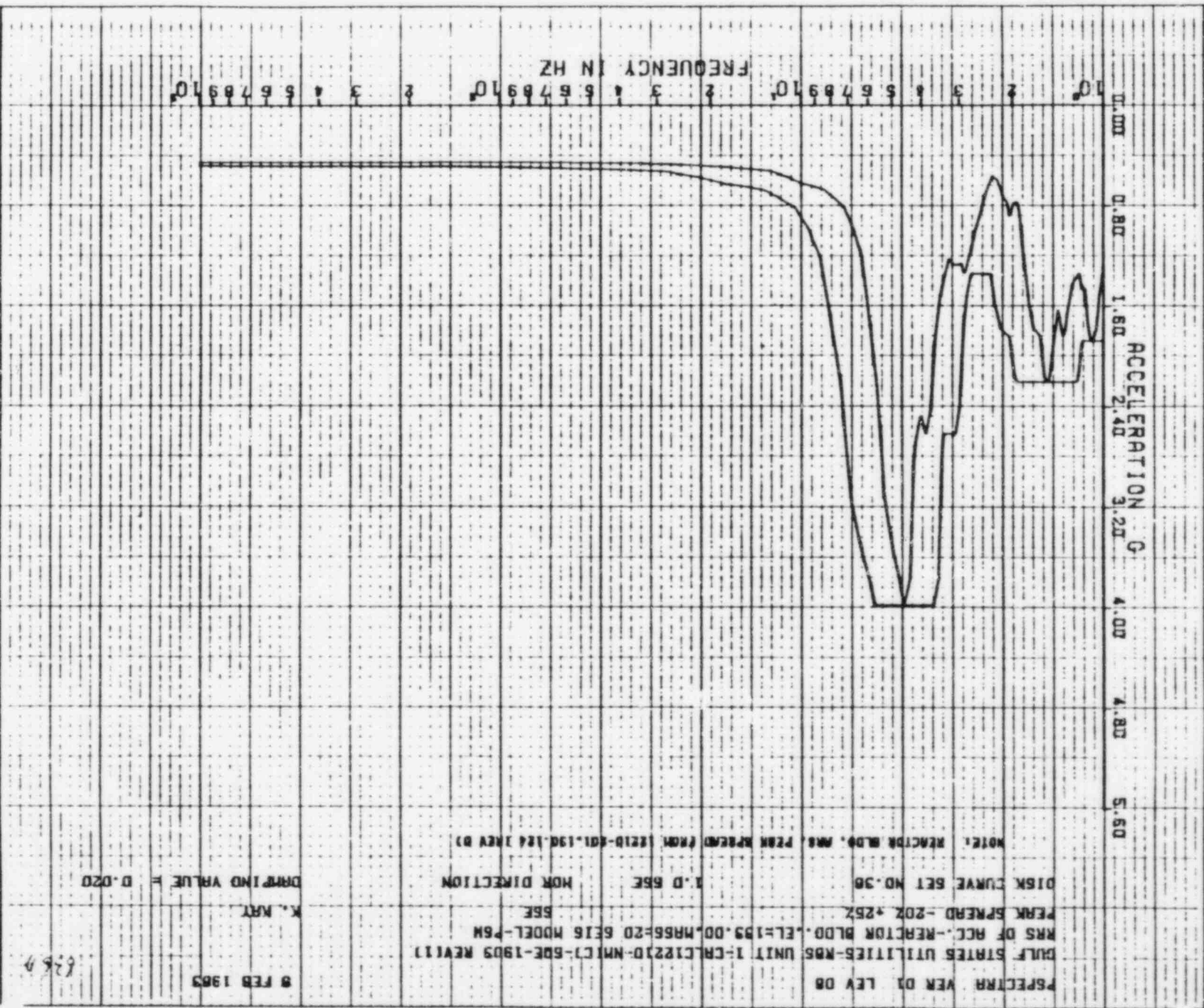
2.41A

K.KAY

DAMPING VALUE = 0.020



REF 89



SPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C1-5DE-1905 REV11
 RMS OF ACC.-REACTION BLDG.-EL=193.00, MR56=20 6E16 MODEL-PM
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO. 36
 1.0 55E
 MOR DIRECTION
 NOTE: REACTION BLDG. RMS, PEAK SPREAD FROM (2E10-501.190, 124 1REV 0)
 9 FEB 1983
 K. MAY
 DRAWING VALUE = 0.020

237A

6 FEB 1965

K. KRY

DAMPING VALUE = 0.020

76 SPECTRA VER 01 LEV 08

DULF STATES UTILITIES-RBS UNIT 1-CALC12210-WMICJ-SWE-1803 REV11

RKS OF ACC.-REACTOR BLDG.-EL=155.00-NR56E20 6E16 MODEL-76W

PEAK SPREAD -20% ±25%

55E

DISK CURVE SET NO.38

1-D 55E

VER DIRECTION

NOTE: REACTOR BLDG. NBS. PEAK SPREAD FROM 12210-201.150-124 18CV D1

3.50

3.00

2.50

2.00

1.50

1.00

0.50

0.00

ACCELERATION G

FREQUENCY IN HZ

10⁰

2

3

4

5

6

7

8

9

10¹

2

3

4

5

6

7

8

9

10²

22 APR 1982

3/4

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-WHIC-502-1983 REV(0)
 RBS OF REC-REACTOR BLDG-EL-139.00, MASS=20 SEIS MODEL-PSY, PEDESTAL
 PEAK SPEED -20%, 25Z

K-KAY

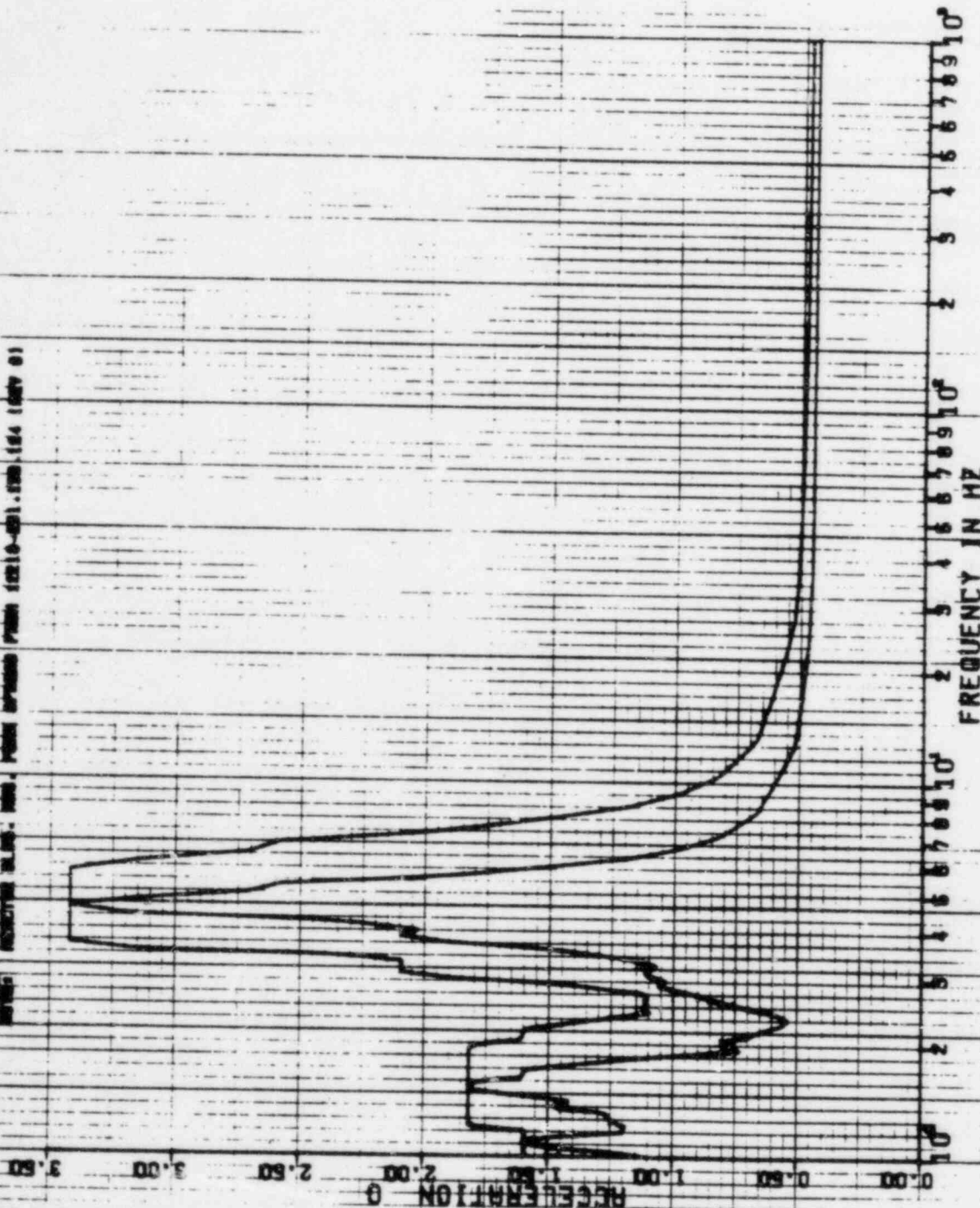
DAMPING VALUE = 0.030

HOR DIRECTION

1.0 SSE

DISK CURVE SET NO. 36

NOTE: REACTOR BLDG. HAS BEEN SHOWN FROM 12210-501.000 (64 INCH 0)



22 APR 1962

K.KAY

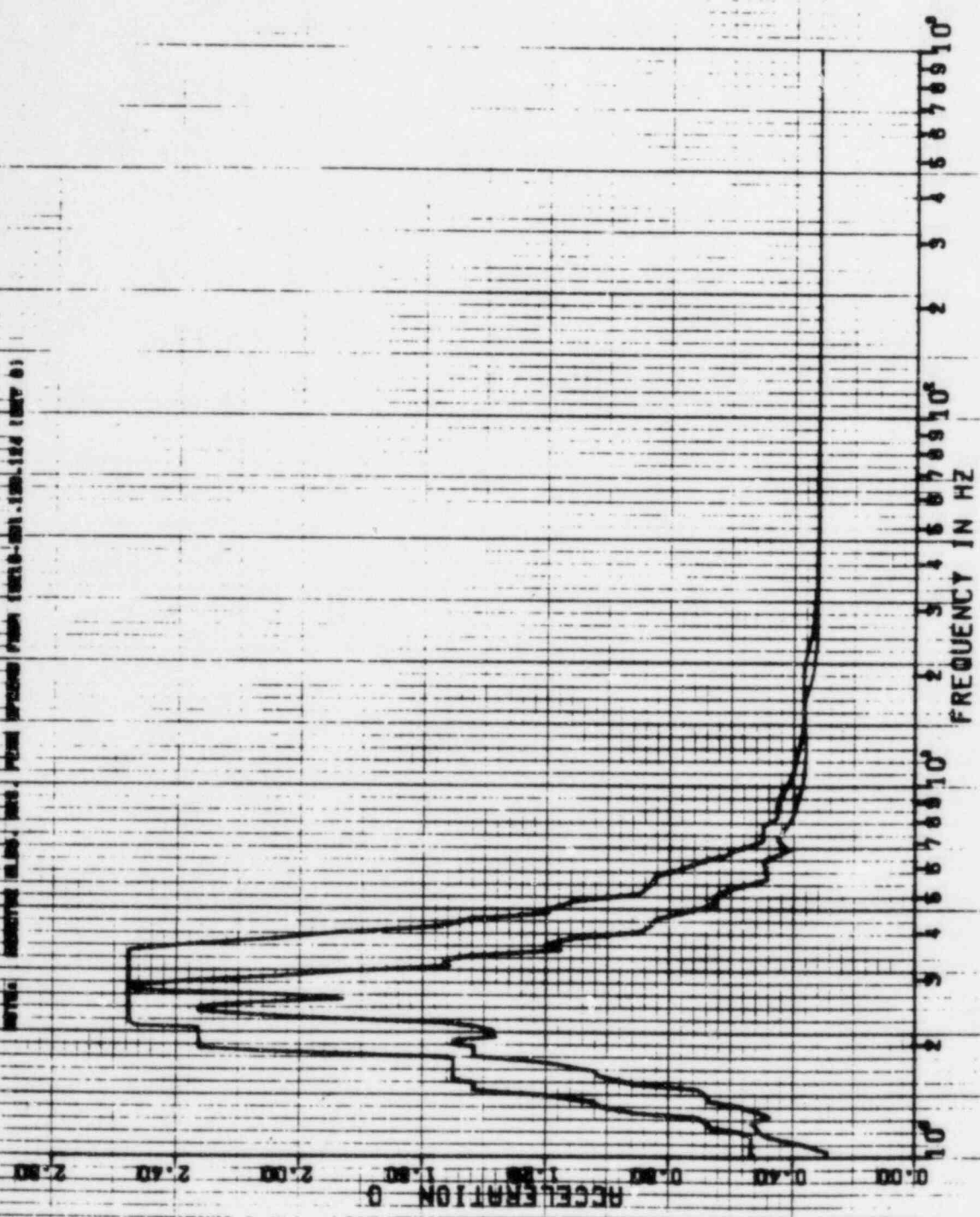
DAMPING VALUE = 0.030

PERCENTAGE VER 01 LEV 07
 GULF STATE UTILITIES-RBB UNIT 1-CALC12210-WHIC-80E-1903 KEY 01
 RRS OF REC-RECTOR BLDG-EL-193.00. MASS-20 SEIS MODEL-PSW.PEDestal
 PERK SPEND-EDX-752

1.0 SSE VER DIRECTION

NOTE: MONITORING IN THE 1000 PERK SPEND FROM 1000-2001.100.100 (REV 8)

DISK CURVE SET NO. 58



$$= 1 - \rho = 0.0001$$

22 APR 1982

kay

DAMPING VALUE: = 0.010

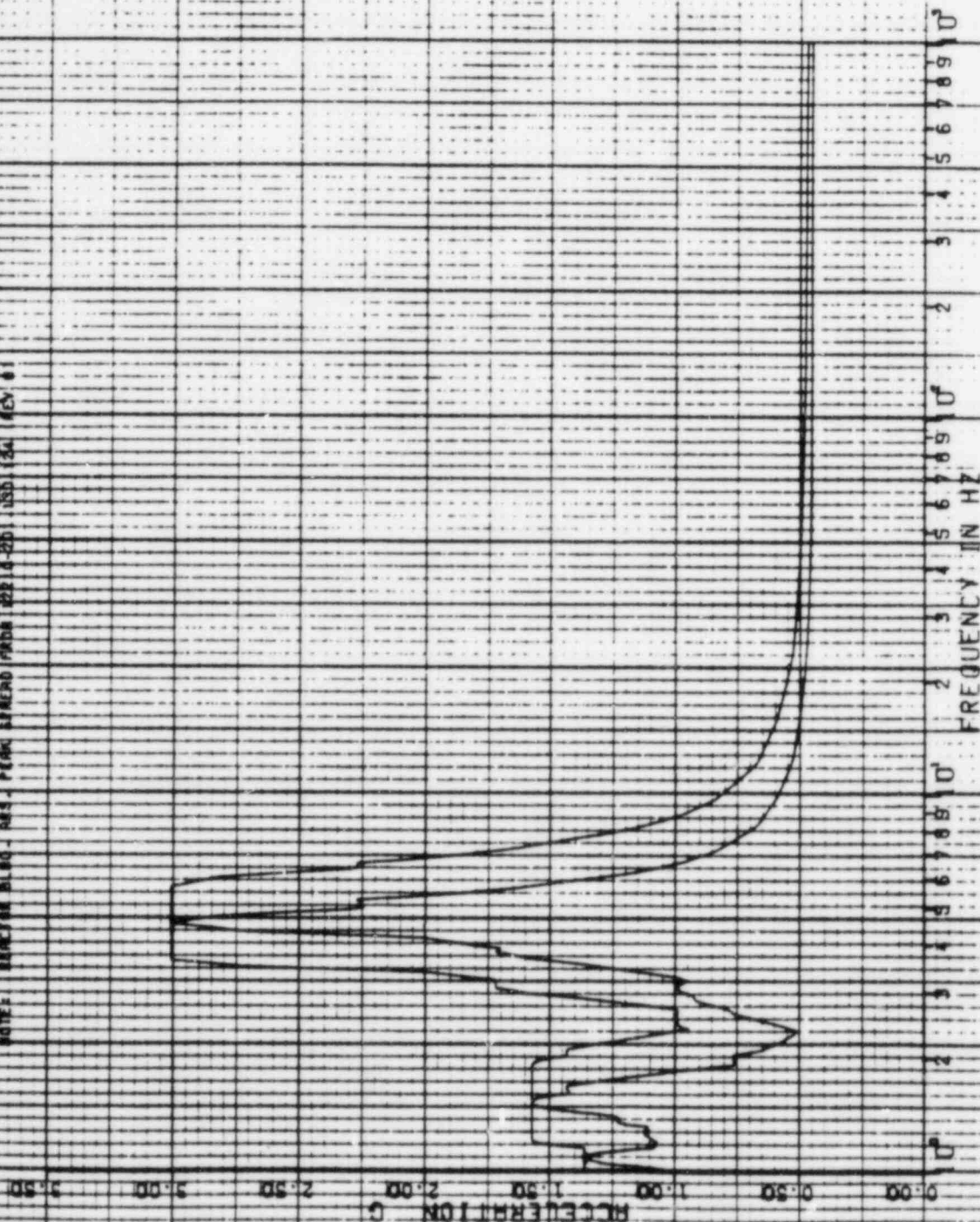
SPECTRA VER 0.15V 07

[illegible]

DISK CURVE SET NO. 38

LOSSE
NOR DIRECTION

DATE: _____ PAGE: _____



PSPECTRA VER D1 LEV 07

CULT STATE UTILITIES-BBS UNIT 1-CALCUTTA-DHIC-505-1908 REV 00
 WRS OF ACC-RECTOR B.DG. EL-188 DD. MASS-20 SEIS MODEL-PSM PEDESTAL
 PEAK SPREAD 1.0V. 25V

DISK CURVE SET NO. 38

N-D SEE VER DIRECTION

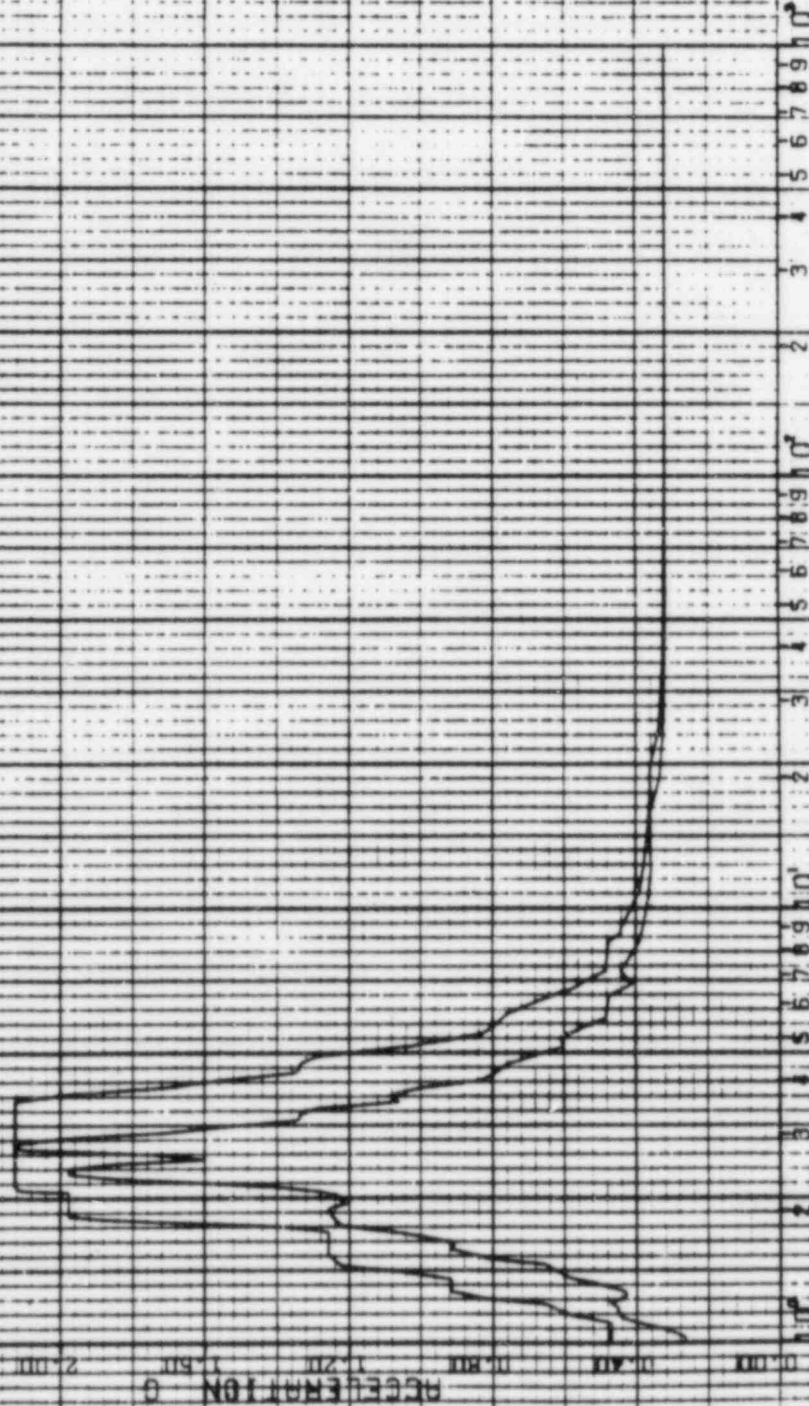
DATA: REACTOR ALSO HAS PEAK SPREAD FROM 220-400 (SD 124 INCH D)

DAMPING VALUE = 0.040

K. KRY

22 APR 1982

7.7



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-WH(C)-SQE-1903 REV10)
 RRS OF ACC.-REACTOR BLDG-EL-147.00.MASS-21 SEIS MODEL-PSM.PEDESTAL
 PEAK SPREAD -201.426Z

DISK CURVE SET NO.39

0.5 SSE

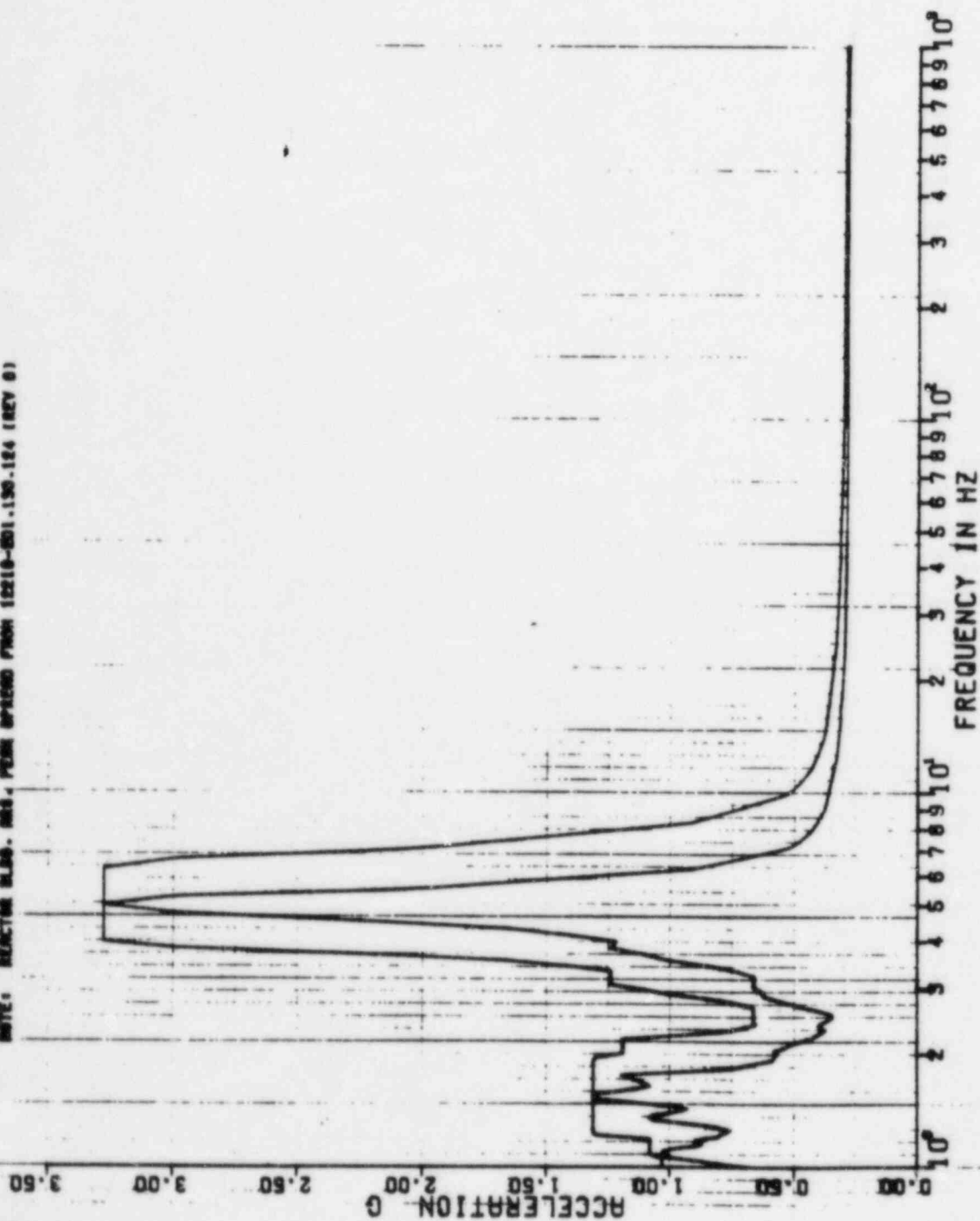
HOR DIRECTION

NOTE: REACTOR BLDG. MASS FROM SPREAD FROM 12210-201.130-124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG.EL=147.00.MASS=21 SEIS MODEL-PSW.PEDESTAL
PEAK SPREAD -20%.+25% OBE

K.KAY

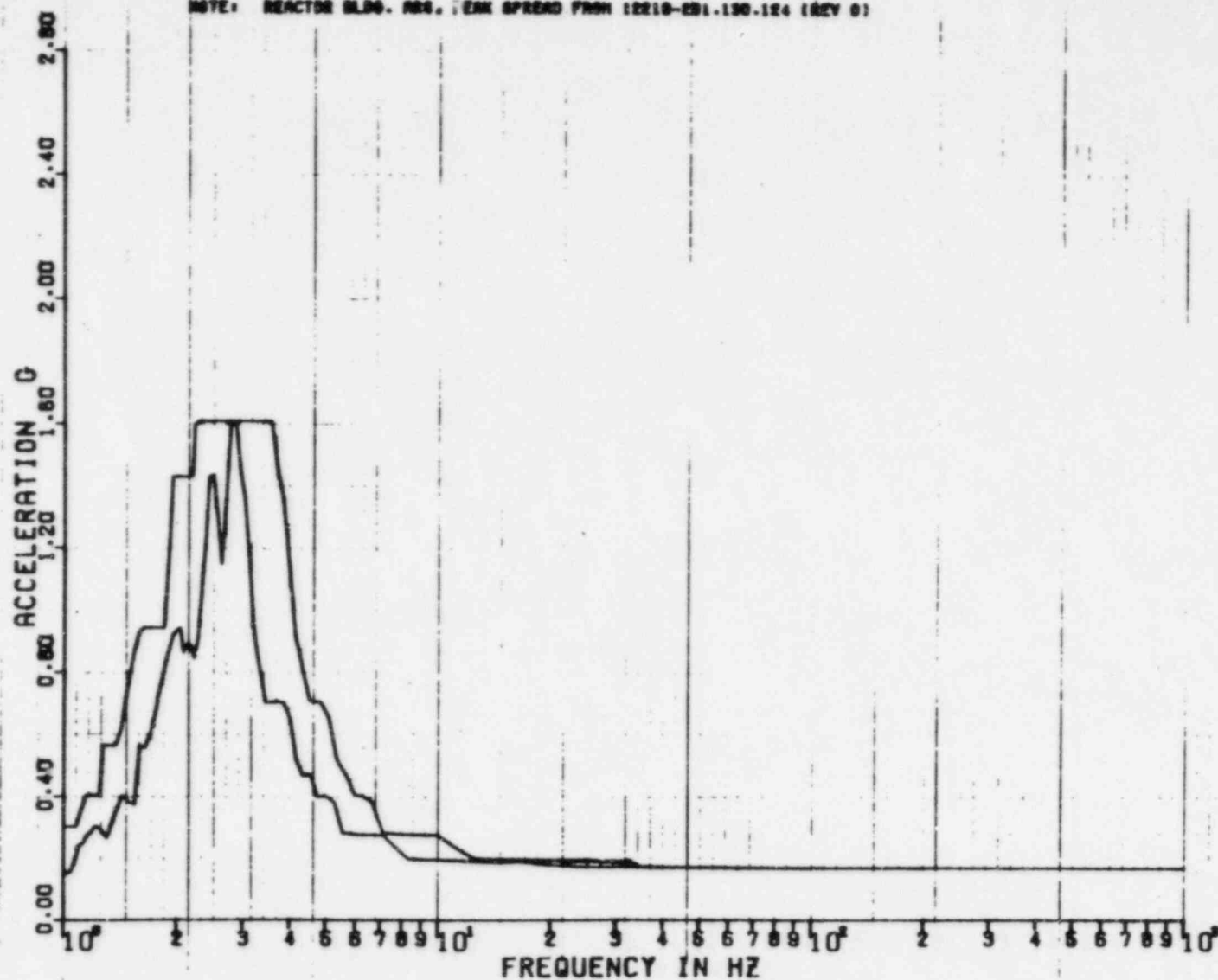
DISK CURVE SET NO.99

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.130.124 (REV 0)



REF 90

PSPECTRA VER 01 LEV 06

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMIC1-50E-1905 REV11)
 RRS OF ACC.-REACTOR BLDG.-EL-147.00, RAS66-21 SE16 MODEL-P6M
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.40

1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-130-124 1REV D1

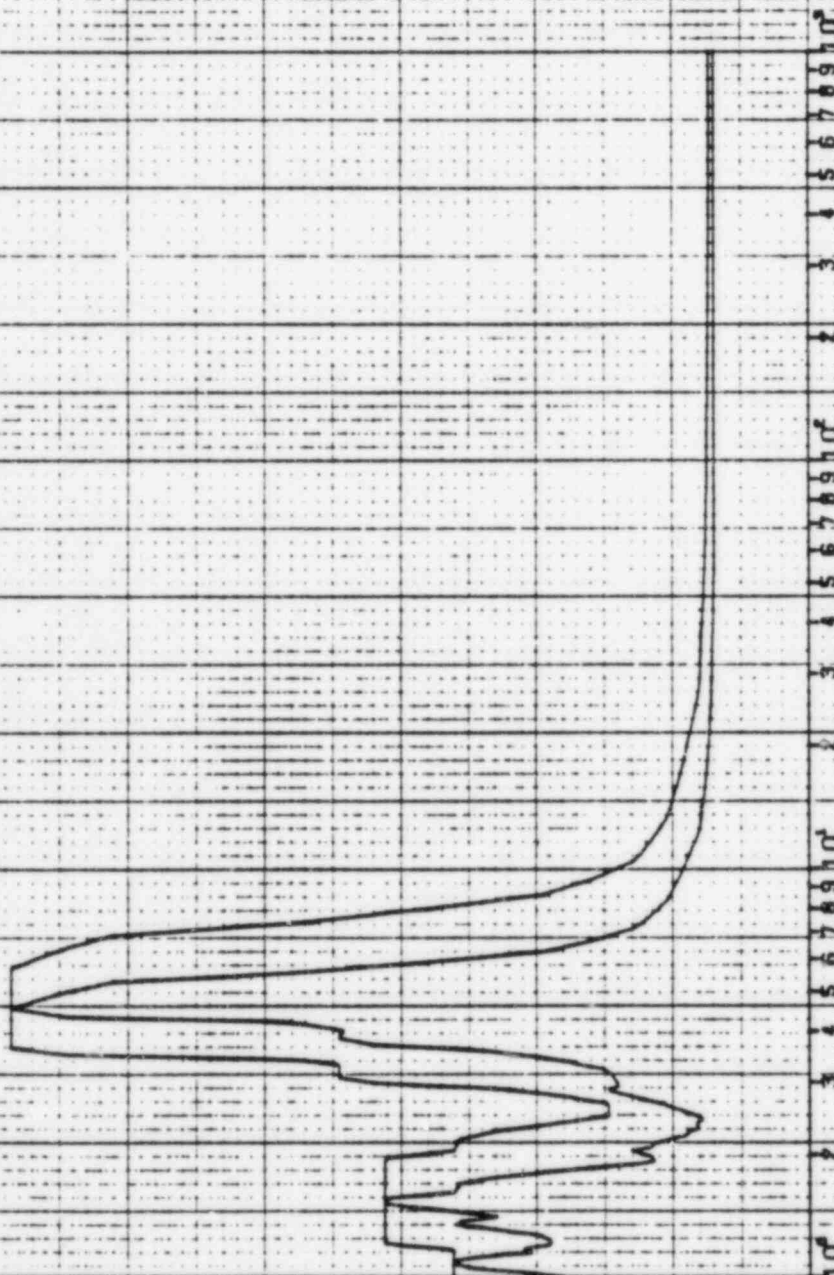
8 FEB 1963

K. KAY

DAMPING VALUE = 0.020

ACCELERATION

FREQUENCY IN HZ



634A

8 FEB 1963

K. KRY

DAMPING VALUE = 0.020

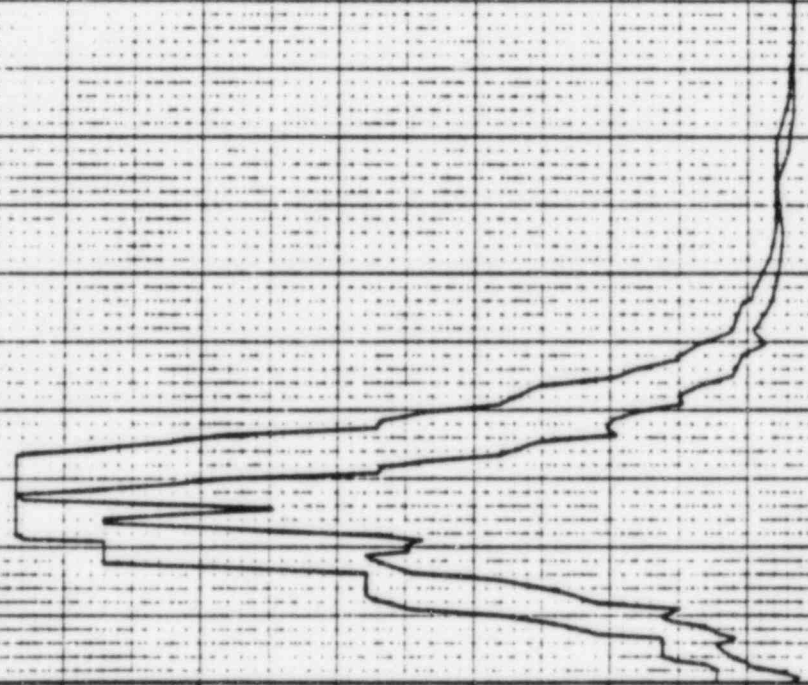
PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C7-5DE-1903 REV11)
 RRS OF ACC.-REACTOR BLDG.-EL=147.00, NR66=21 SE16 MODEL-PSM
 PEAK SPREAD -20Z +25Z
 5SE

DISK CURVE SET NO.40
 1.0 5SE
 VER DIRECTION

NOTE: REACTOR BLDG. NR66 PEAK SPREAD FROM 12210-501.150-124 (REV D)

ACCELERATION G

FREQUENCY IN HZ



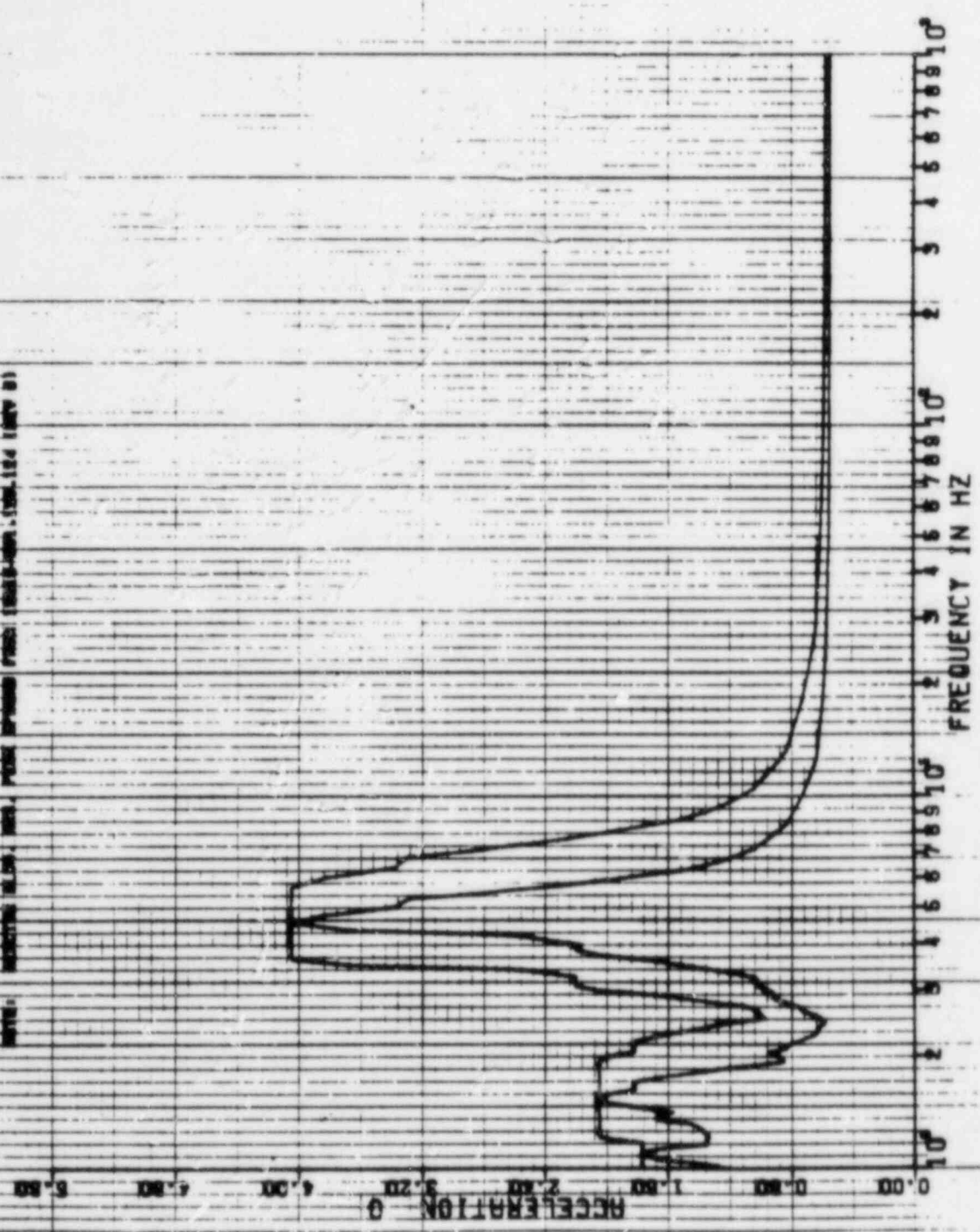
22 APR 1982

3744

K.MAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07
GULF STATE UTILITIES-RSS UNIT 1-CALC12210-NMIC1-SDE-1803 REV10)
RMS OF ACC. REACTOR BLDG. EL-147-00. RMS-21 SEIS MODEL-PSH.PEDESTAL
PERK REPEND - EDEL-25Z
DISE CURVE SET NO.40
NOTE: REACTOR BLDG. RMS. PSH REPEND RMS (EDEL-21.106.124 100V 8)
1.0 SSE
NOR DIRECTION
SSE



22 APR 1962

K.KAY

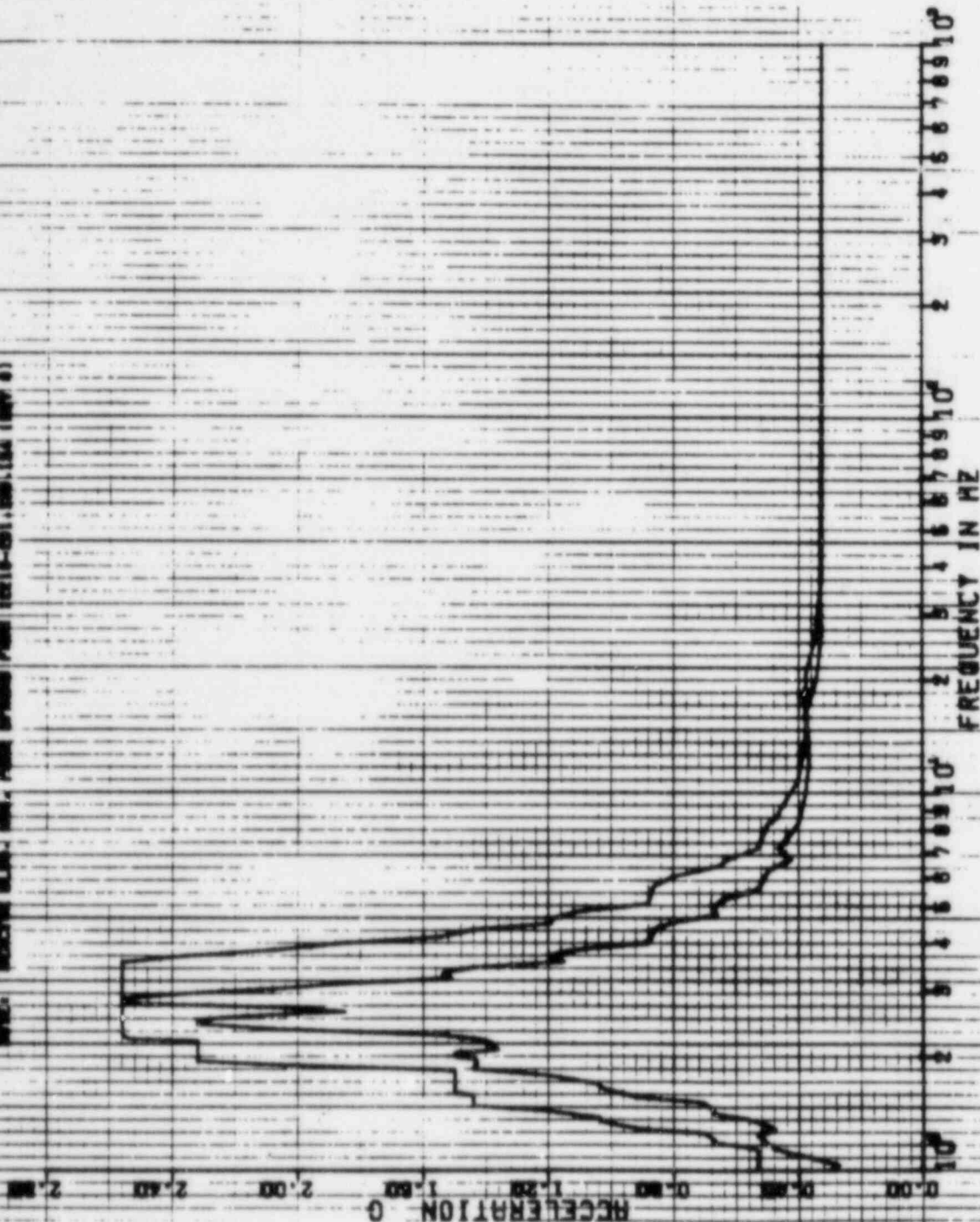
DAMPING VALUE = 0.030

PERFECTION VER 01 LEV 07
 SELF STATE UTILITIES-KOS ONLY 1-CALC12210-MIC1-50E-1803 REV 01
 KRS OF MCI-RECTOR BL09-CL-147.00-NAS8-21 9214 MODEL-P68.P68CSTAL
 PENC SPEND. -EOL-252
 DISK CURVE SET NO.40

SEE
 VER DIRECTION

1.0 50E

NOTE: RECORD BLANK. 100. FROM SPREAD FROM (210-01) 100. (210 100V 01)



SPECTRA VER DA LEV D7

GULF STATE UTILITIES-RBS UNIT 1-CALCIPROD-UNIT 1-SSE-1908 REV D)
 RRS OF ACC. REACTOR BLDG. EL=147.00. MASS=RA SENS MODEL P6W. PEDestal
 PEAK SPREAD 1.00K. 25K

DISK CURVE SET NO. 140

N. D. SSE

HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 140.00-147.00. (SEE 147.00)

DAMPING VALUE = 0.040

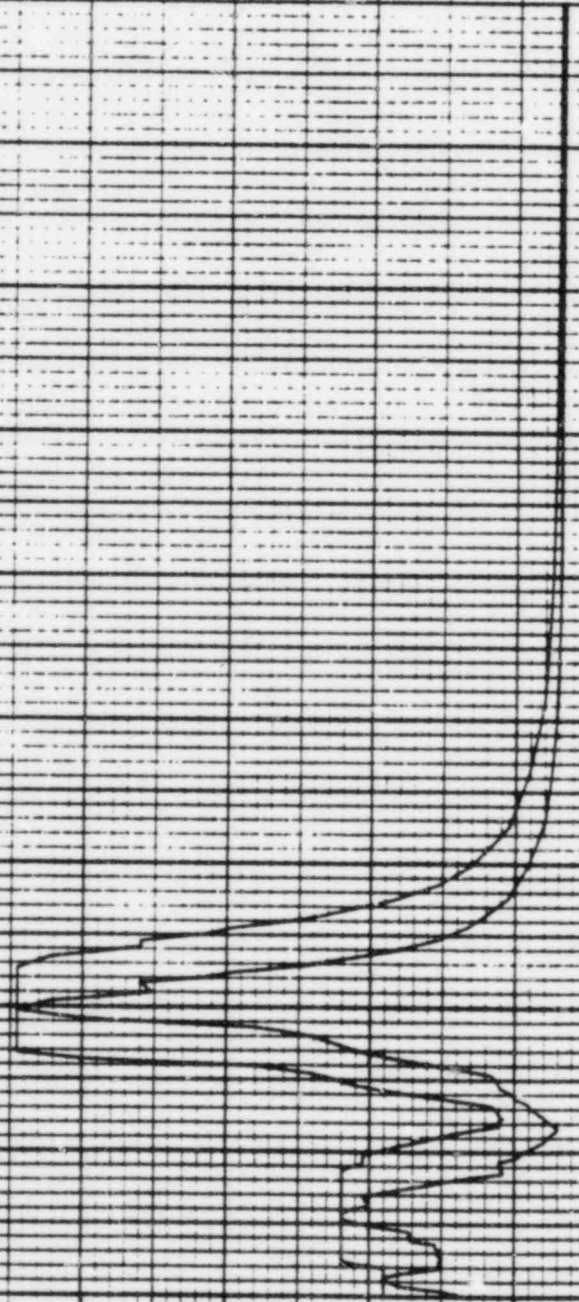
K. KRY

22 APR 1982

7 - 14

ACCELERATION G
 0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00

FREQUENCY IN HZ
 10⁰ 2 3 4 5 6 7 8 9 10¹ 10² 10³ 10⁴



11A

22 APR 1982

K. KRY

DAMPING VALUE = 0.040

PSPECTRA VER 01 LEV 07
 CULF STATE DUTY LINES RB5 UNIT 1 CALC 121210-NH1 C3-5DE-1908 REV D3
 RRS OF ACC. REACTOR BLOC ELE 147.001 MASS 21 SEIS MODEL PSM PEDESTA
 PEAK SPREAD 20V 25V
 DISK CURVE SET NO. 140

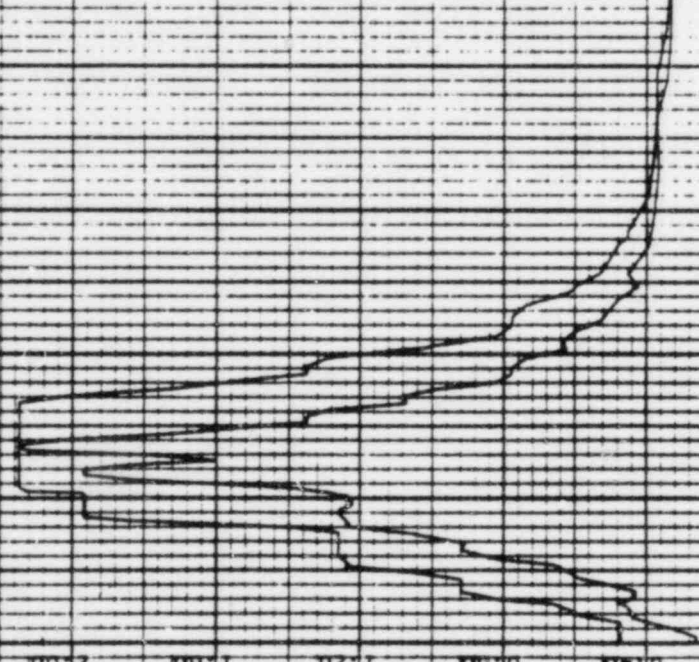
VER DIRECTION

A.D. 55E

NOTE: REACTOR IN 10. RB5. PEAK SPREAD FROM 420.0-200.150.124.14V (b)

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50

10⁰ 2 3 4 5 6 7 8 9 10¹
 FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

DULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-80E-1803 REV10)
 RRG OF ACC.-REACTOR BLOO.EL=96.000.MASS=22 SE18 MODEL-DAYNELL
 PEAK SPREAD -20Z.+25Z

DISK CURVE SET NO.41

0.5 SSE

HOR DIRECTION

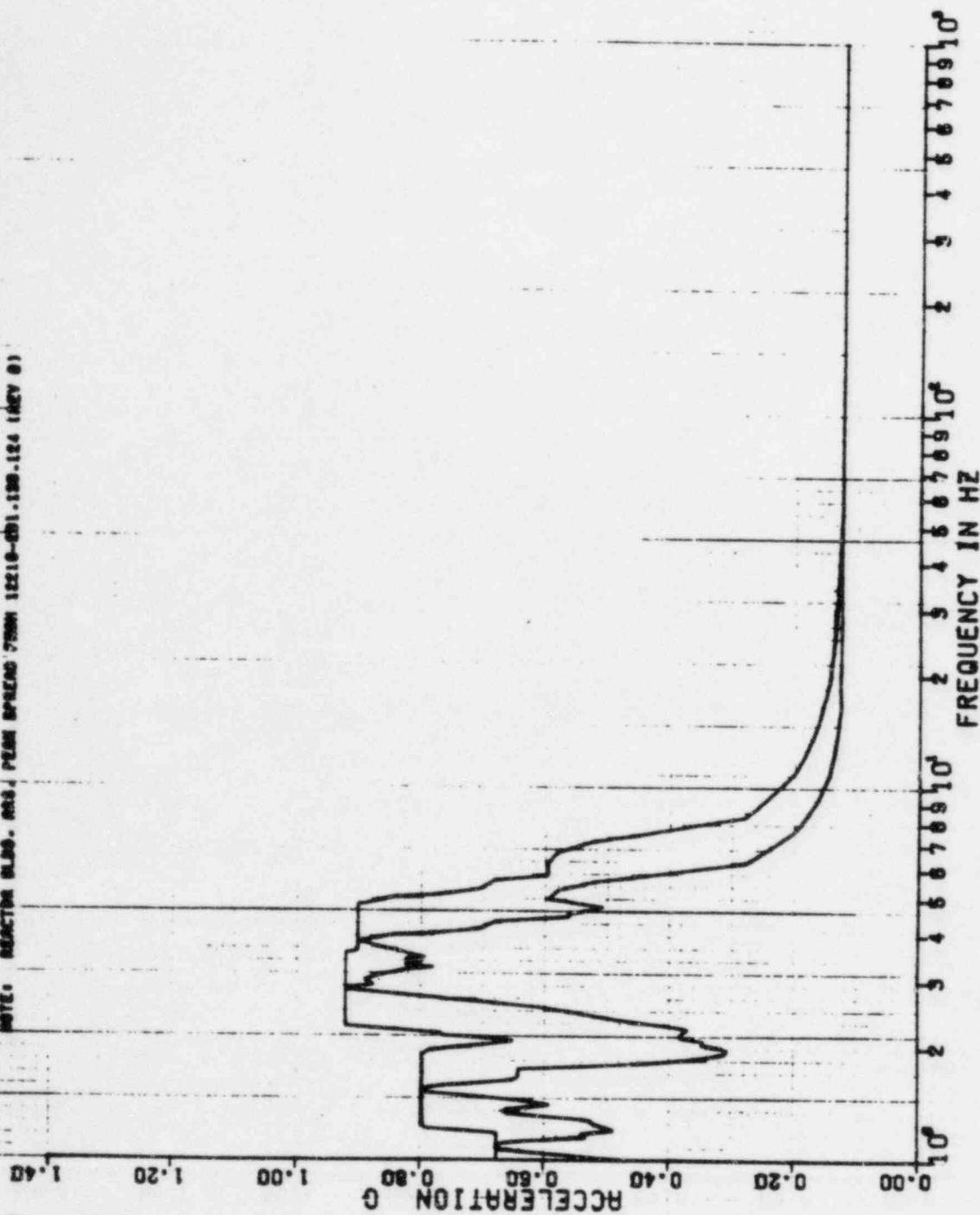
NOTE: REACTOR BLOO. RRG. PEAK SPREAD 7MM 12210-201.120-124 (REV 0)

22 APR 1982

2.11A

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-80E-1903 REV(0)

RRS OF ACC.-REACTOR BLDG.EL=96.000.MASS=22 SEIS MODEL-DRYWELL

PEAK SPREAD -20%.+25%

OBE

K.KAY

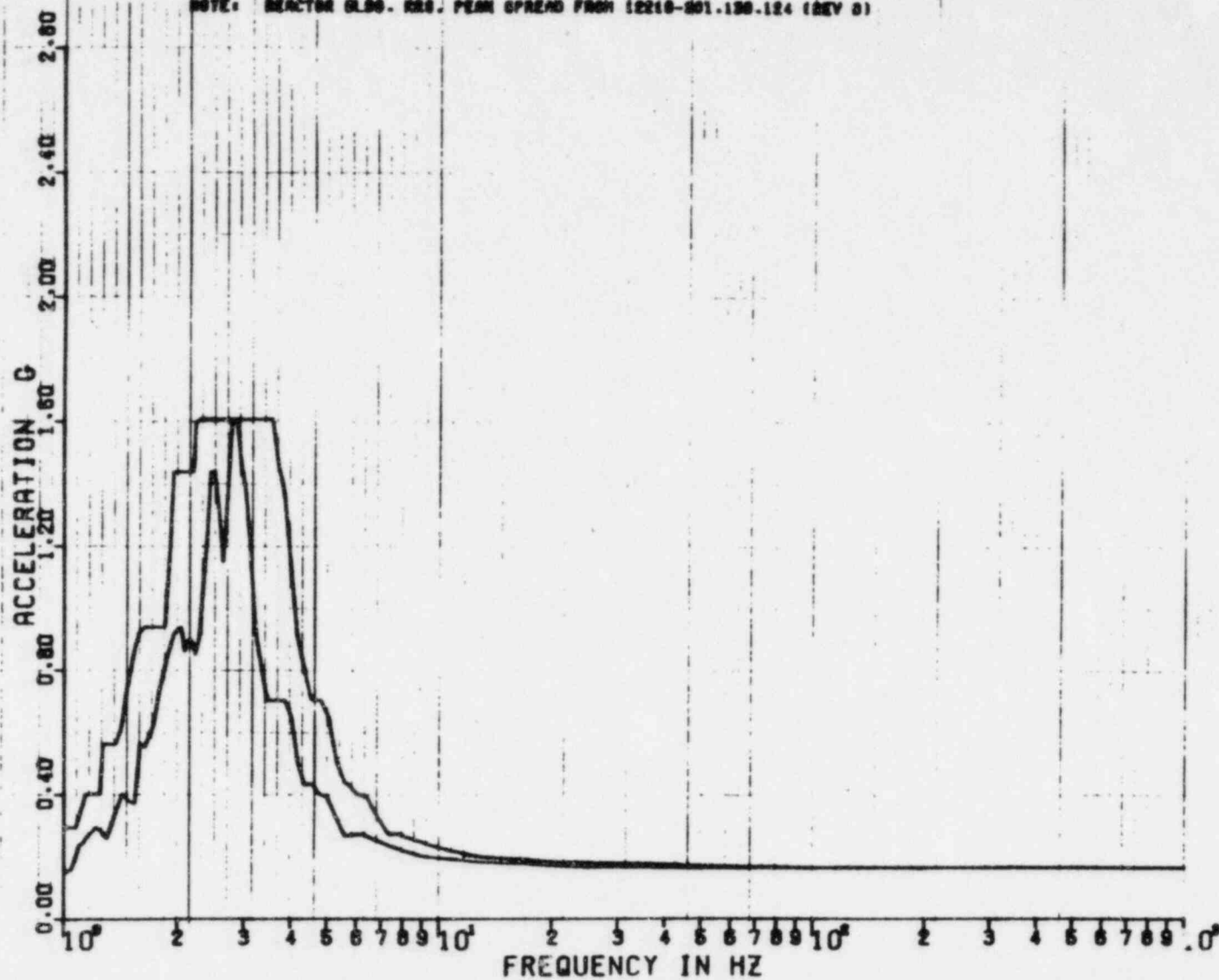
DISK CURVE SET NO.41

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS, PEAK SPREAD FROM 12210-801.130.124 (REV 0)



REF 91

6 FEB 1983

K. MRY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NMCI-5DE-1903 REV(1)
 RBS OF ACC.-REACTOR BLDG.-EL-96.000, MASS-22.5E16 MODEL-DRYWELL
 PEAK SPREAD -20% +25%
 5SE

DISK CURVE SET NO.42
 1.0 5SE HOR DIRECTION

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 1210-101.130.124 (REV D)

2.80

2.40

2.00

1.60

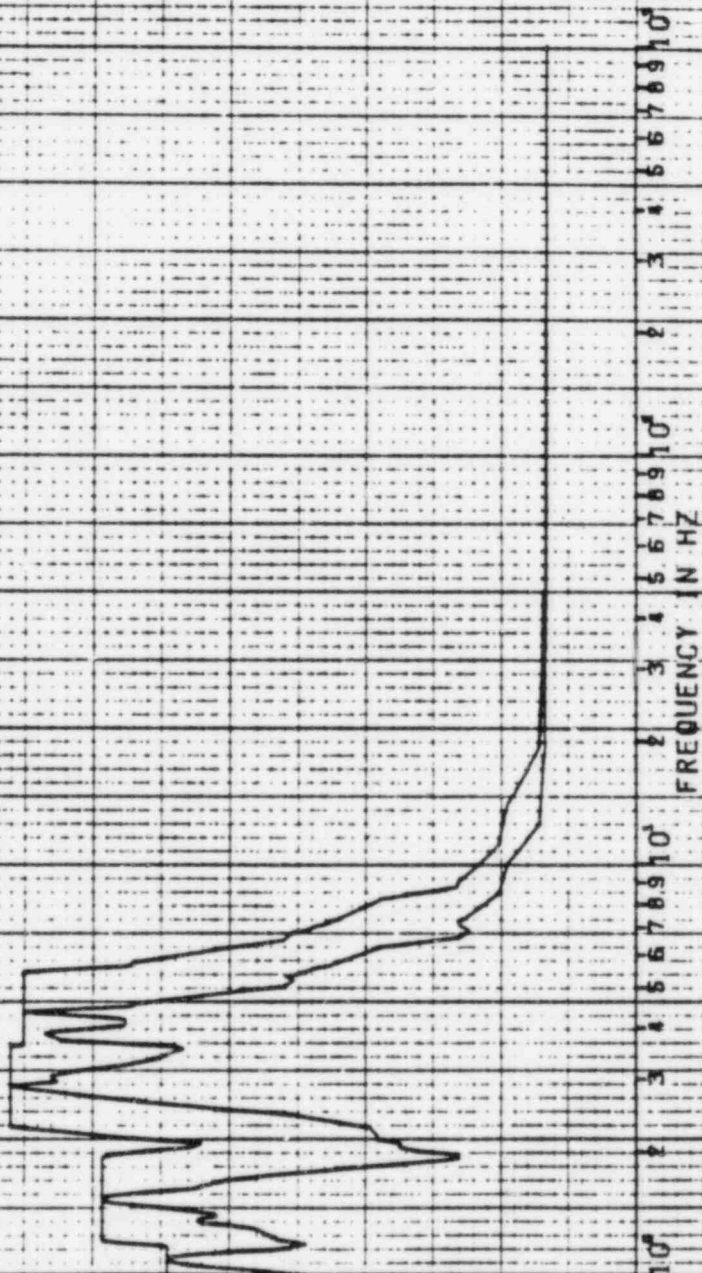
1.20

0.80

0.40

0.00

ACCELERATION



10⁰ 10¹ 10² 10³ 10⁴
 FREQUENCY IN HZ

64A

8 FEB 1965

K. MAY

DAMPING VALUE = 0.020

PSPEC:RA VER 01 LEV 08
 GULF STATES UTILITIES-RRS UNIT 1-CALC12210-MMIC7-SQE-1903 REV(1)
 RRS OF ACC.-REACTOR BLDG.-EL-96-000, MASS-22 SE16 MODEL-DRYNELL
 PEAK SPREAD -20% +25%

DISK CURVE SET NO.42

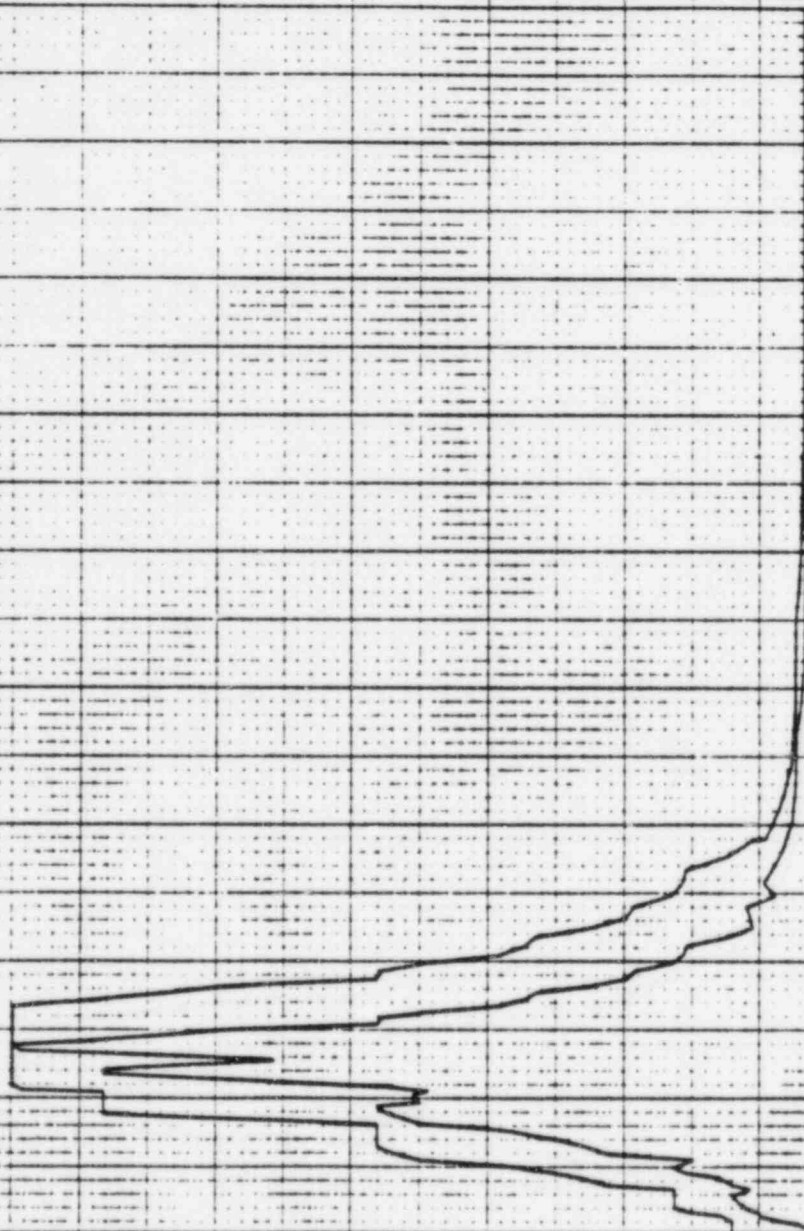
1.0 SSE

VER DIRECTION

NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM 12210-001-130-124 (REV 01)

ACCELERATION -G

FREQUENCY IN HZ



REF 91

PAPER TUB VER 01 LEY 07

[illegible]

NO. OF BELL - REMINGTON 3600. FL-98.000. PRICE-22.82 IS MODEL - DAYWELL

PEAK SPEED - 201, 202

Size

DISK CURVE SET NO. 32

1.0 sec

FOR DIRECTION

19 APR 1967 08:01 AM

22 APR 1982

3717

K. MAY

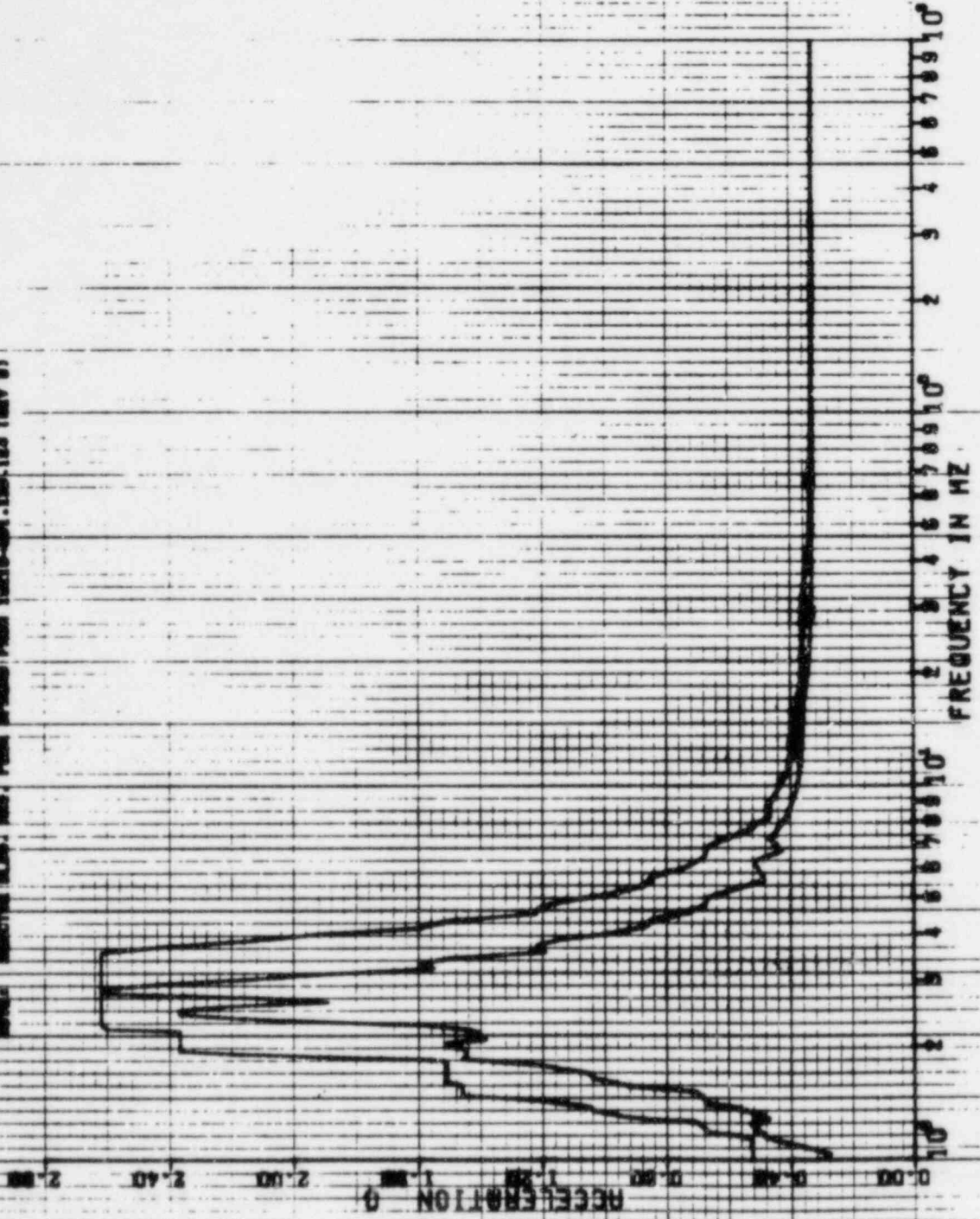
DAMPING VALUE = 0.030

PROJECTION VER 01 LEV 07
 SLP STAGE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-ONE-(1003 REV(D))
 RDS OF REC.-RECTOR BLDG-EL-99.000.N88822 SE18 N8821-08YMWELL
 PEEK SPENDL-RIDE-252

1.0 SEC VER DIRECTION

MODE: INERTIAL ALPH. 1000. PEEK SPENDL-RIDE-252-001.120.100 (REV 01)

DISK CURVE SET MS-42



11/4

22 APR 1982

K-KBY

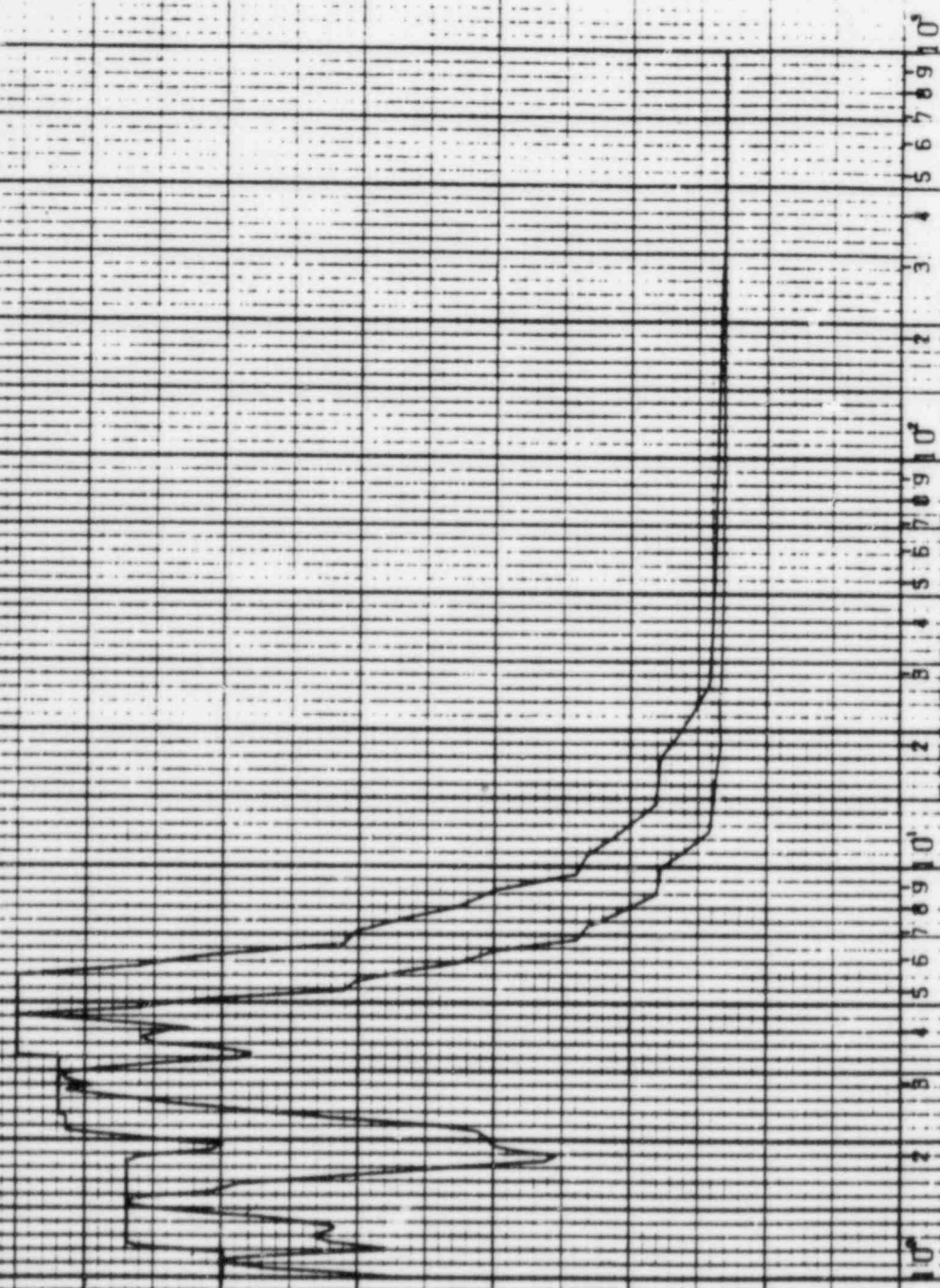
DAMPING VALUE = 0.040

PSPECTRA VER D1 LEV 07
CULF STATE UTILITIES-RBS UNIT 1-CALC 12210-UNIT 1-SOE-1908 REV D3
RBS OF ACC-REACTOR BLOC-FL-96.000-HASS-22 SETS MODEL-DRYNELL
PEAK SPEED 120V.25V
55E

DISK CURVE SET NO.12
1-D 55E HDR DIRECTION

NOTE: REACTOR BLOC, RBS, PEAK SPEED (MON 2218-20) (SOL 14 144W D)

ACCELERATION 0
0.000 0.200 0.400 0.600 0.800 1.000 1.200 1.400 1.600 1.800 2.000



10^0 10^1 10^2
FREQUENCY IN HZ

PSPECTRA VER D1 LEV D7

CULF SYSTE UTILITIES-RBS UNIT 1-CAL 12210-WR117-SOE-1909 REV D
 RBS OF ALL-REACTOR BLOC-EL-96.000-MASS-22 SEIS MODEL-DRYWELL
 PEAK SPREAD 1.20K-1.25K

DISK CURVE SET NO. 12

1.0 55E VER DIRECTION

NOTE: REACTION BLOC. RES. PEAK SPREAD FROM 12210-201 130.14 165V D1

22 APR 1982

K-KRY

DAMPING VALUE = 0.040

2.80

2.40

2.00

1.60

1.20

0.80

0.40

0.00

ACCELERATION G

10⁰ 2 3 4 5 6 7 8 9 10¹
 FREQUENCY IN HZ



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM1C1-80E-1903 REV10)
RMS OF ACC.-REACTOR BLDG.FL=114.00.MASS=23 SEIS MODEL-DRYWELL
PEAK SPREAD -20%+25% OBE

DISK CURVE SET NO.43

0.5 SSE

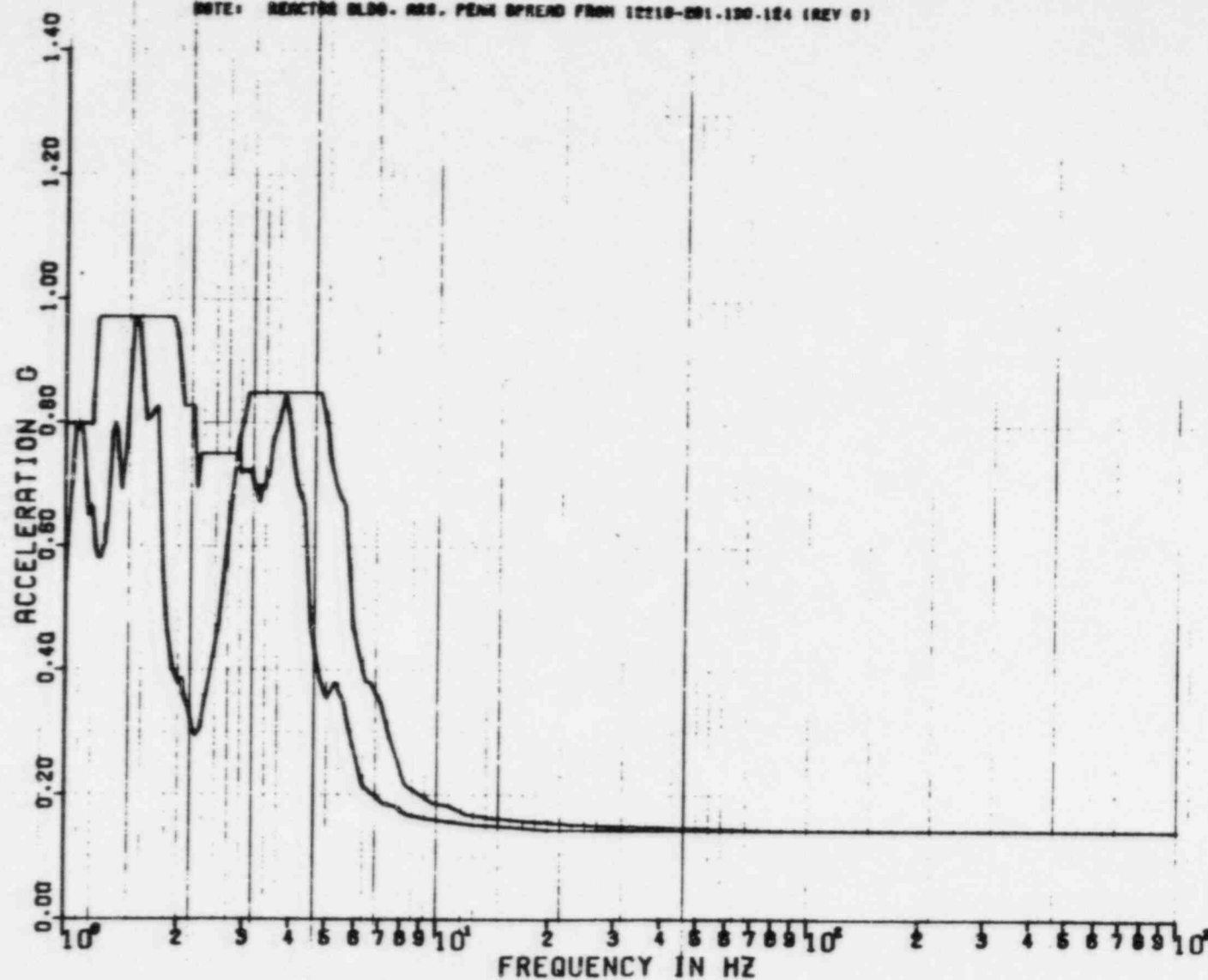
NOR DIRECTION

22 APR 1982

K.KAY

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201-130-124 (REV 0)



REF 92

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC1210-MH(C)-S0E-1903 REV(0)
 RBS OF ACC.-REACTOR BLDG-EL-114.00.M088-23 SEIS MODEL-DRYWELL
 00E
 PEAK SPREAD -20%+25%

DISK CURVE SET NO.43

0.5 S0E

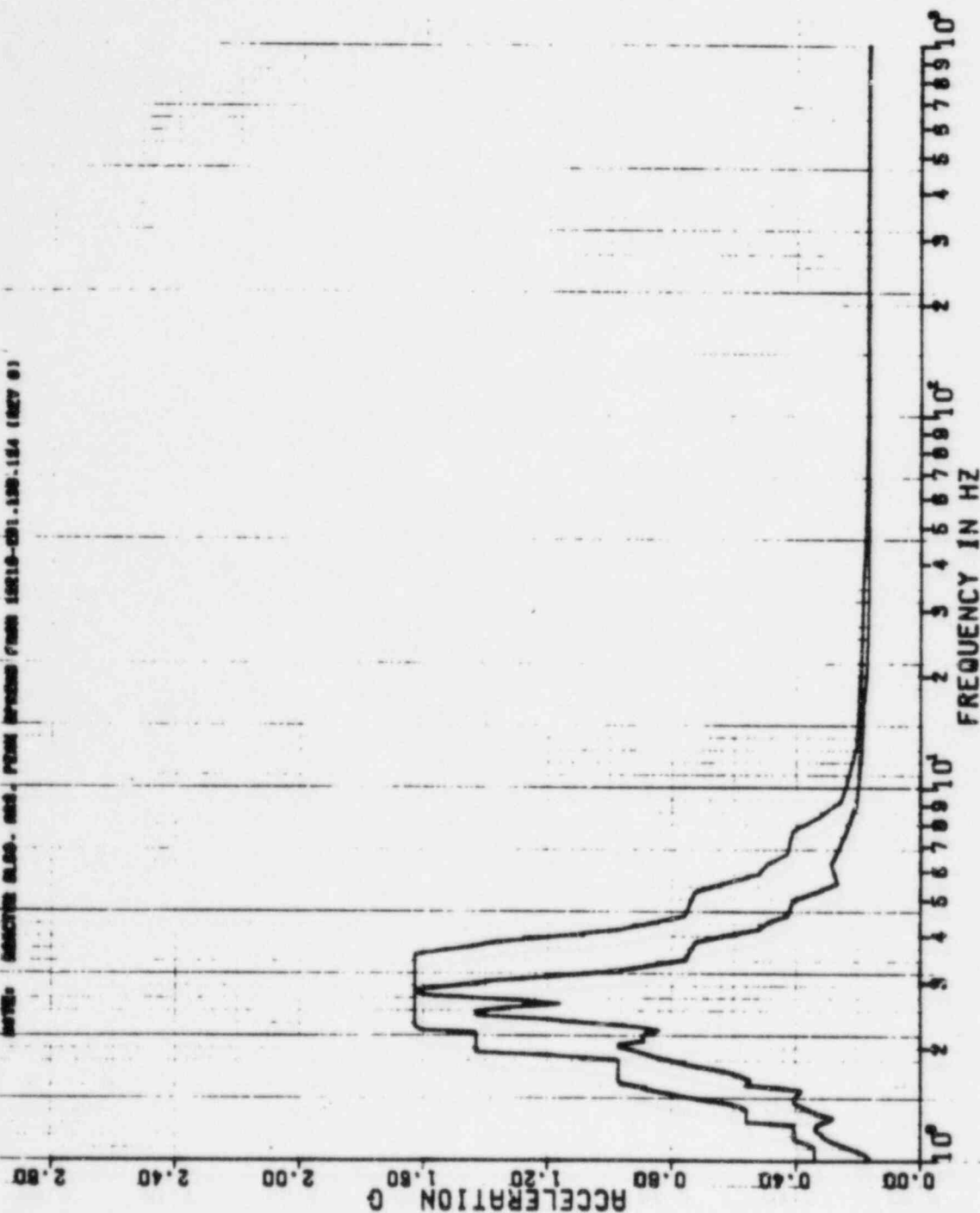
VER DIRECTION

NOTE: ANALYZED BLDG. NO.3 FROM SPREADS FROM 10010-091.100-104 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



6410

0 FEB 1965

K. KAY

DAMPING VALUE = 0.020

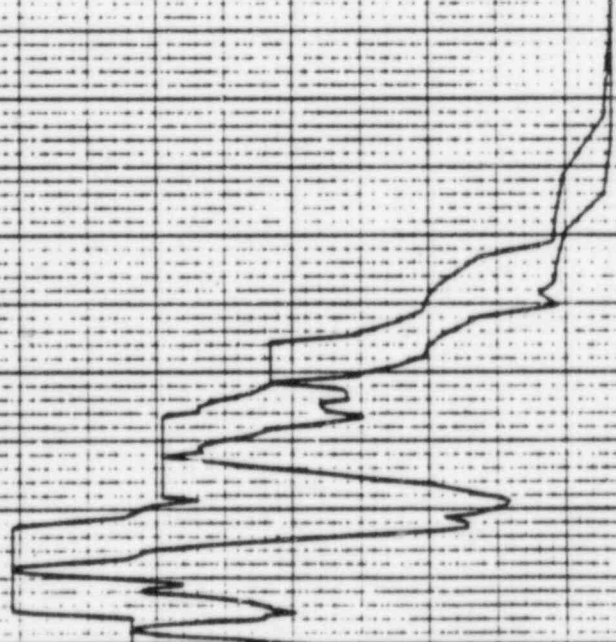
PSPECTRA VER 03 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MM1C7-60E-1903 REV11)
 RAS OF REC.-REACTOR BLDG.-EL-114.00, MASS-23 SEIS MODEL-DRYWELL
 PEAK SPREAD -20% +25%

MCR DIRECTION

1.0 SSE

NOTE: REACTOR BLDG. RBS PEAK SPREAD FROM 2210-001-150-104 (REV B)

DISK CURVE SET NO. 44



FREQUENCY IN HZ

10⁰ 10¹ 10²

5439

6 FEB 1965

K. KRY

DAMPING VALUE = 0.020

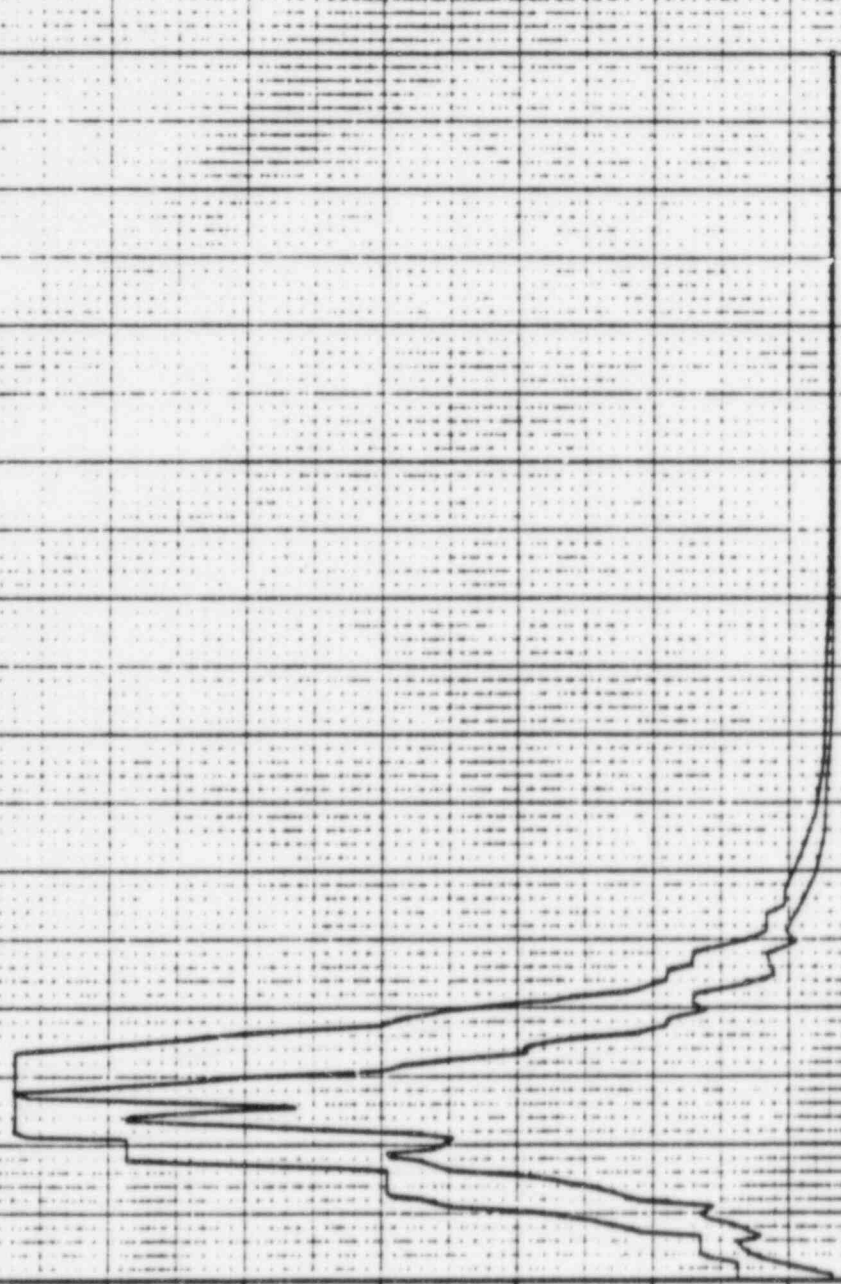
PSPECTRA VER 03 LEV 08
DULF STATES UTILITIES-RBS
MRS OF ACC--REACTOR BLDG.
PERK SPREAD -20Z +25Z
UNIT: 1-CALC12210-NM1C7-5DE-1CD3 REV(1)
FL=114.00, MARS=23 SE16 MODEL-DRYWELL
55E

VER DIRECTION

1.0 55E

DISK CURVE SET NO.44

NOTE: REACTOR BLDG. MRS. PERK SPREAD FROM 12210-001-130-124 (REV D)



10⁰ 10¹ 10²
FREQUENCY IN HZ

22 APR 1962

3714

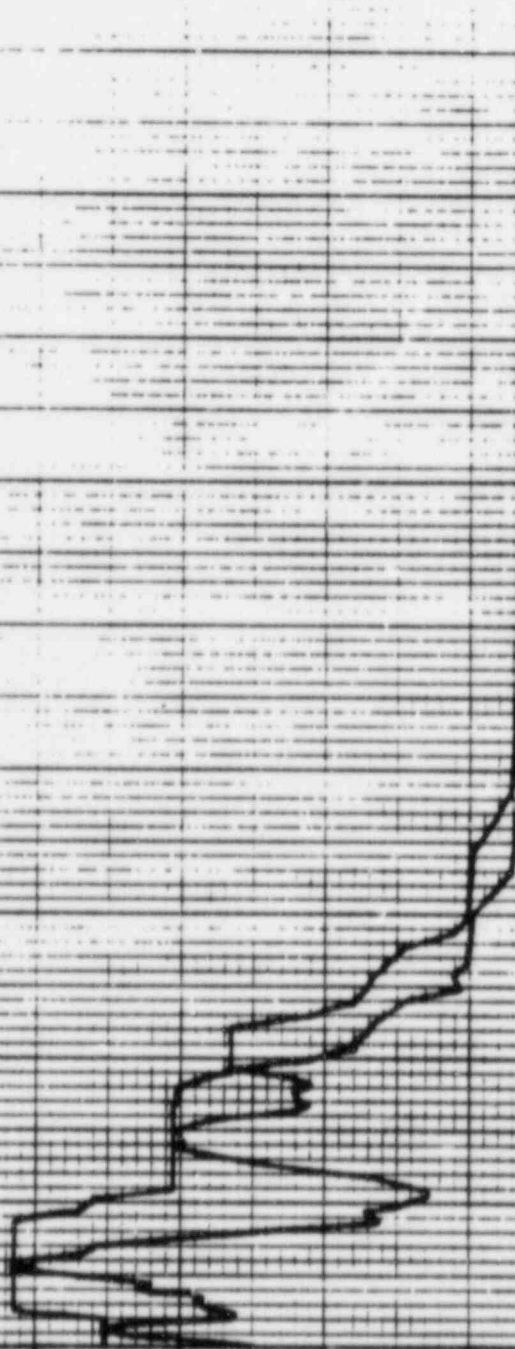
K. RAY

DAMPING VALUE = 0.0750

PIPELINE VER D3 LEV 07
 ONLY STATE UTILITIES-AMT UNIT 1-CALCITID-MIC)-EVE-LIND REV(0)
 RES OF REC-RECTOR BLDG-EL-119.00-INDUS-23 SEIS MODEL-CRYWELL
 PEAK SPKEM-1-201.1-RES
 DISK CLOVE MET MD.43
 1.0 HZ
 FOR DIRECTION
 WPT. WINDS 0.10 HZ. FROM WINDS FROM (100-104 REV 0)

REGISTRATION

FREQUENCY IN HZ



22 APR 1962

3.0

K.MAY

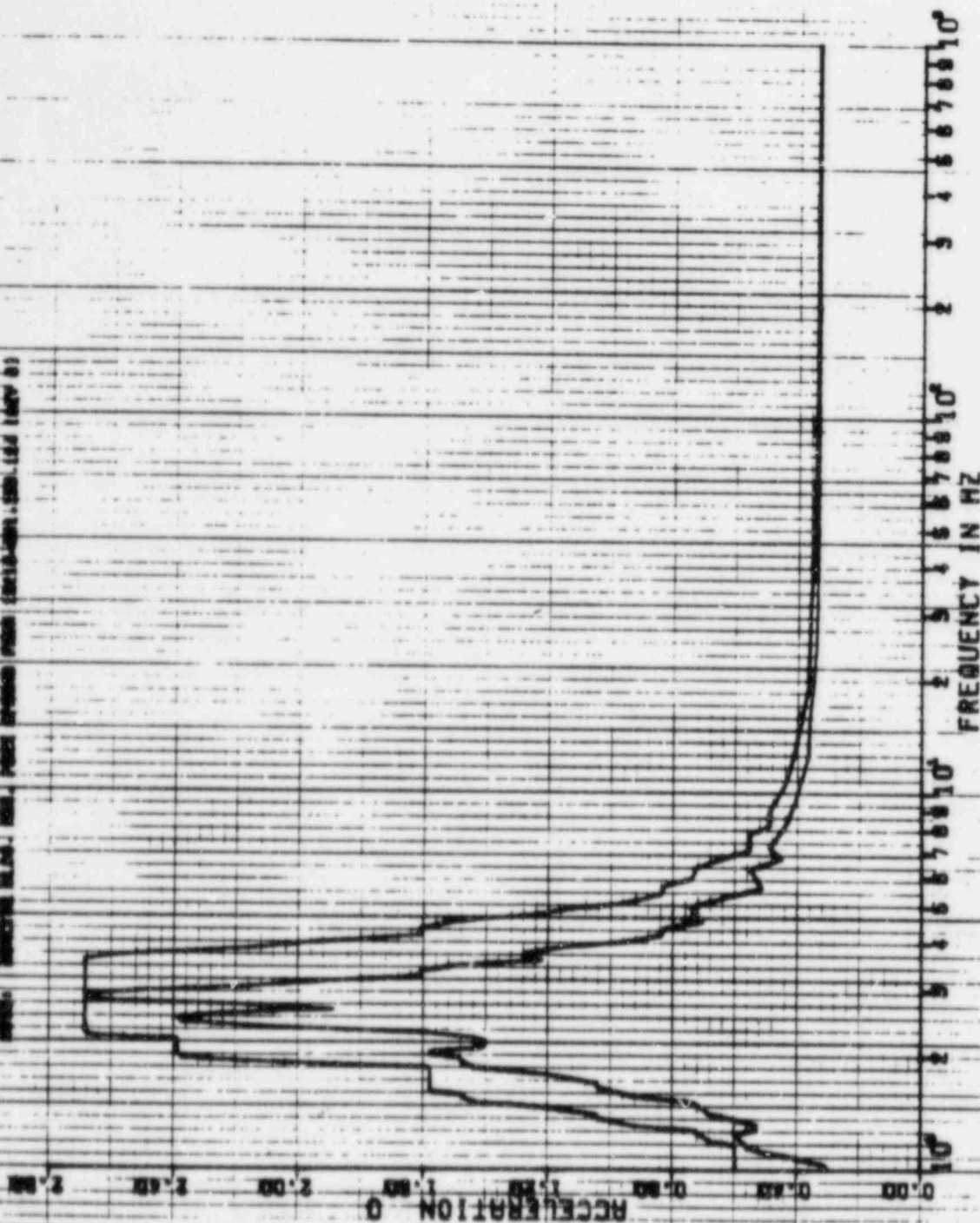
DAMPING VALUE = 0.050

SPECTRUM VER 01 LEV 07
 GULF STATE UTILITIES-NEW UNIT 1-CALC1210-WN171-SEE-1963 REV 01
 END OF M.C.C. -RECTOR MLOW-EL-114.00-MASS-23 9218 MODEL-OWELL
 PEAK SPEED 1.000.0257

DISK CURVE SET NO. 14

1.0 GSE PER DIRECTION

WIND: WINDING MLOW. NEW. PEAK SPEED 1.000.0257 (REV 01)



444

22 APR 1982

K KBY

DAMPING VALUE = 0.000

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT -2000 22 0 0000 500 1000 REV 01
 PPS OF REC-REACTOR BLOC ELI 1.00 MASS-23 SE S MODEL-001WELL
 PPSR SPRING-200 1000
 DISK CURVE SET NO. 22

0.55C HOR DIRECTION

NAME: REACTOR BLOC, PPS, PPSR SPRING (22 10 00) 1000 100 1000 100 1000

ACCELERATION G

FREQUENCY IN HZ



PROFTRAL VER D1 LEV 07

GULF STATE UTILITIES-RBB UNIT 1-CALL 1210-FM (11-50E-100 REV 0)
 RES OF ACC-REACTOR BLOC.ELE IN OOL-HASSLE-23 SE 15 MODEL-DAYNELL
 PEAK SPEED 1207.125K

DISK CURVE SET NO. 111

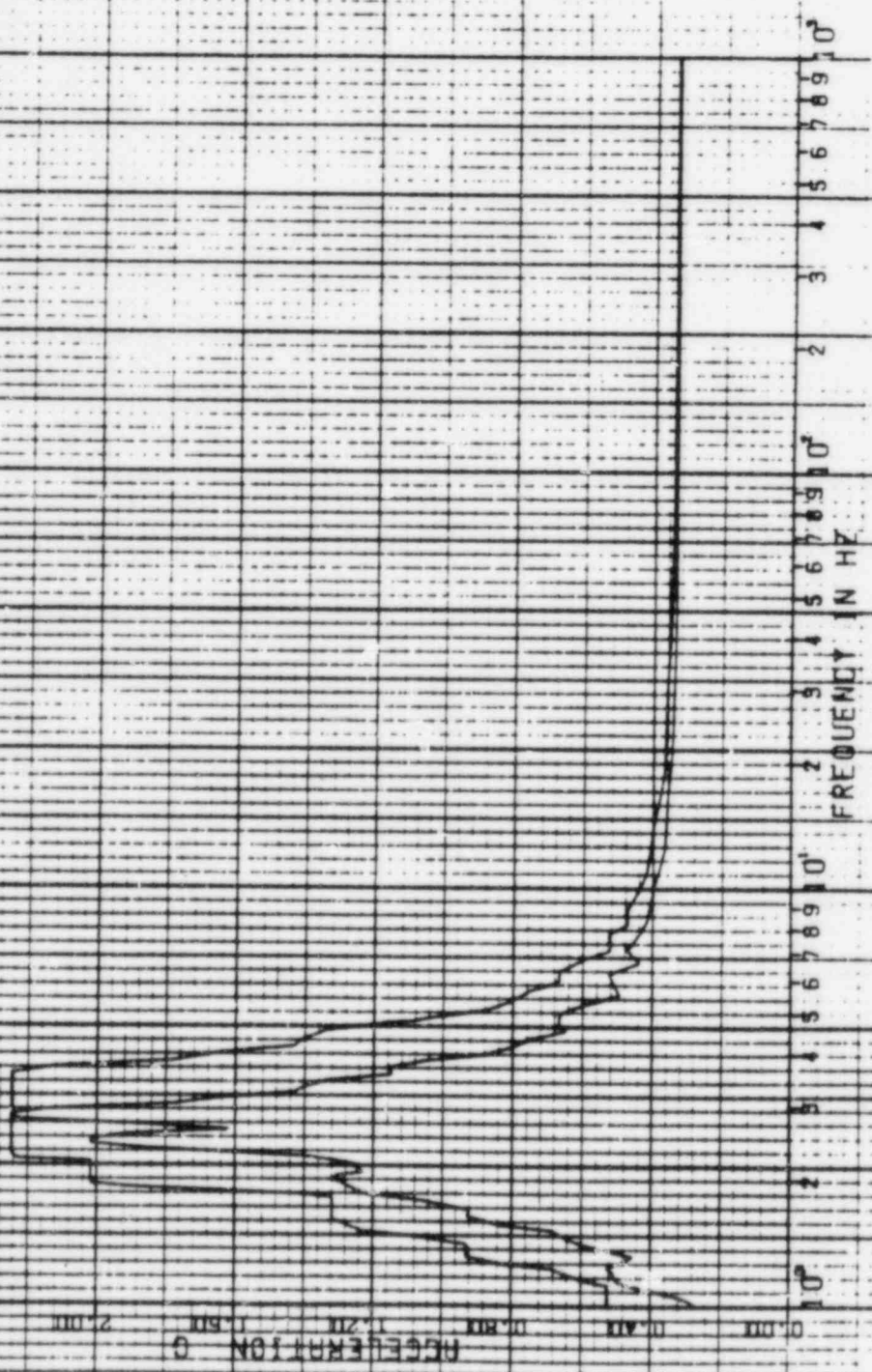
1.0.55E VER DIRECTION

NOTE: REACTOR ALDO. RES. PEAK SPEED FROM (2210.50) (30.14 100V. 6)

22 APR 1982

K-KAY

DAMPING VALUE = 0.000



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RDS UNIT 1-CALC12210-WHIC1-80E-1903 REV101
RMS OF ACC.-REACTOR BLDG-EL-133.00.MASS=24 SEIS MODEL-DATWELL
PEAK SPREAD -20%+25%

DISK CURVE SET NO.45

0.5 SSE

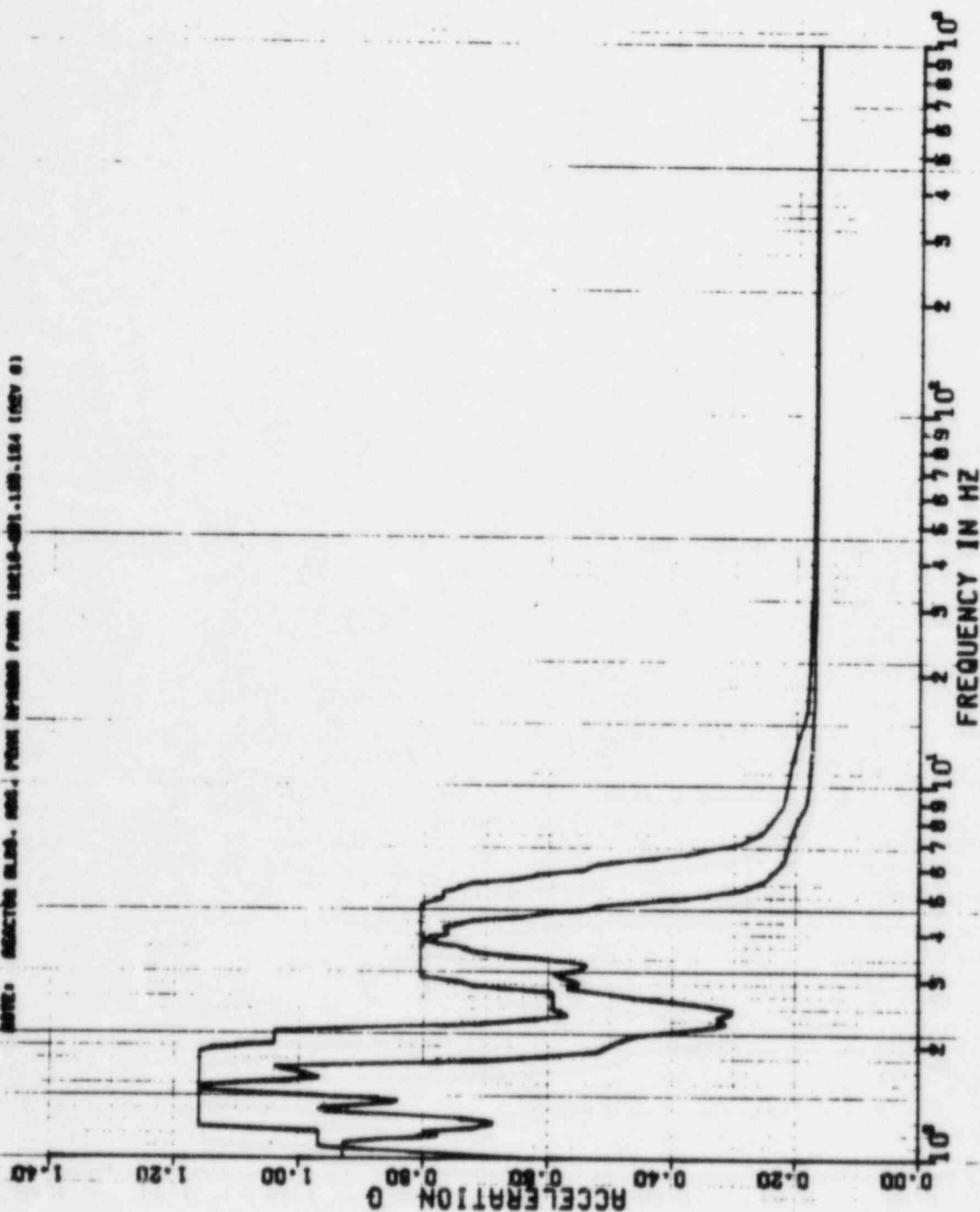
HOR DIRECTION

NOTE: REACTION BLDG. RMS. FROM SPREAD FROM 10010-001.100-104 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-WHIC1-SOE-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL-133.00. MASS-24 SEIS MODEL-ORYNELL
 PEAK SPREAD -201.+25Z

DISK CURVE SET NO.45

0.5 SSE

VER DIRECTION

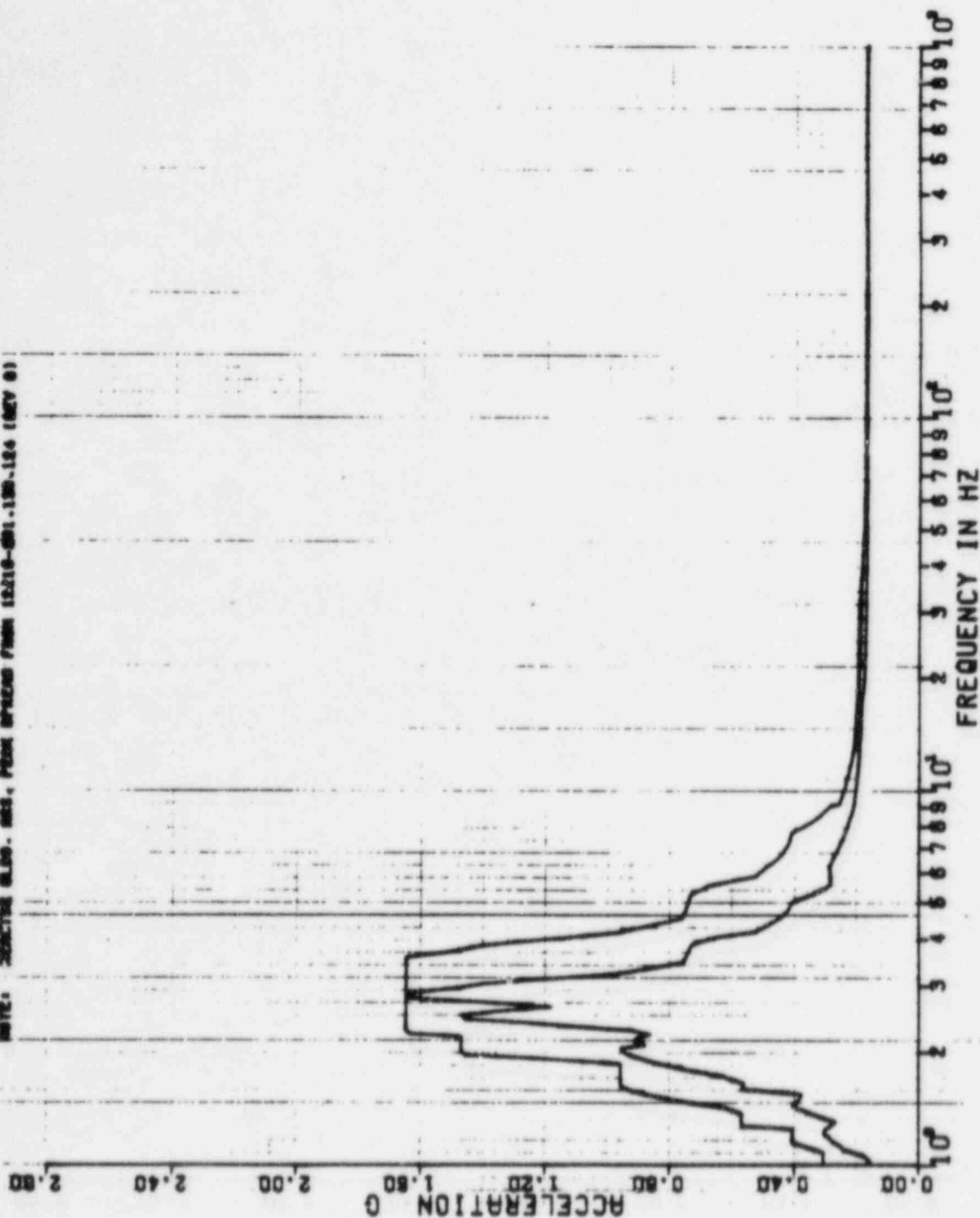
NOTE: 20ACTIVE BLDG. RES. FROM SPREAD FROM 12210-001.130-134 (REV 0)

22 APR 1982

2.4.4

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 08
GRAF STATES UTILITIES-RGS
RRS OF ACC.-REACTOR BLDG.
PEAK SPREAD -20K +25K

DISK CURVE SET NO. 45

| ACCELERATION | 1.00 | 2.00 | 2.40 | 2.80 |
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| 1 | 0.80 | 1.20 | 1.60 | 2.00 |

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FROM: 2210-001, 150-124 (REV D)

0 FEB 1983

K. KUPY

DAMPING VALUE = 0.020

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SPECTRA VER 01 LEV 08

DULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C7-SQE-1903 NEW11)
RBS OF ACC.-REACTOR BLDG.-EL-193.00, MASS-24 SEIS MODEL-DRYWELL
PEAK SPREAD -20% +25%

DISK CURVE SET NO.46

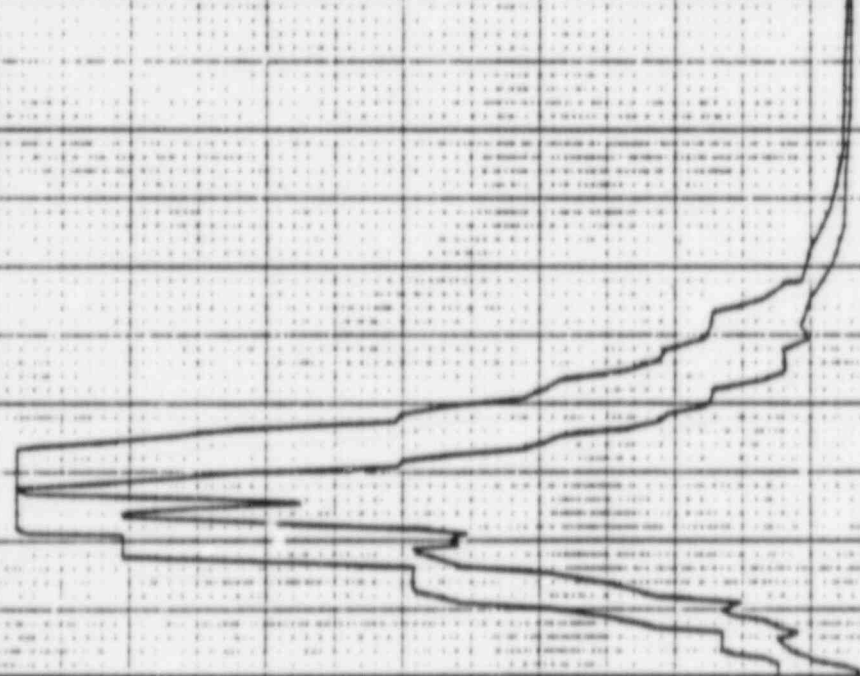
1.0 SSE VER DIRECTION

NOTE: REACTION BLDG. RBS PEAK SPREAD FROM 12210-001.150-124 122V D3

ACCELERATION

FREQUENCY IN HZ

8 FEB 1983
K. MAY
DAMPING VALUE = 0.020



22 APR 1962

380A

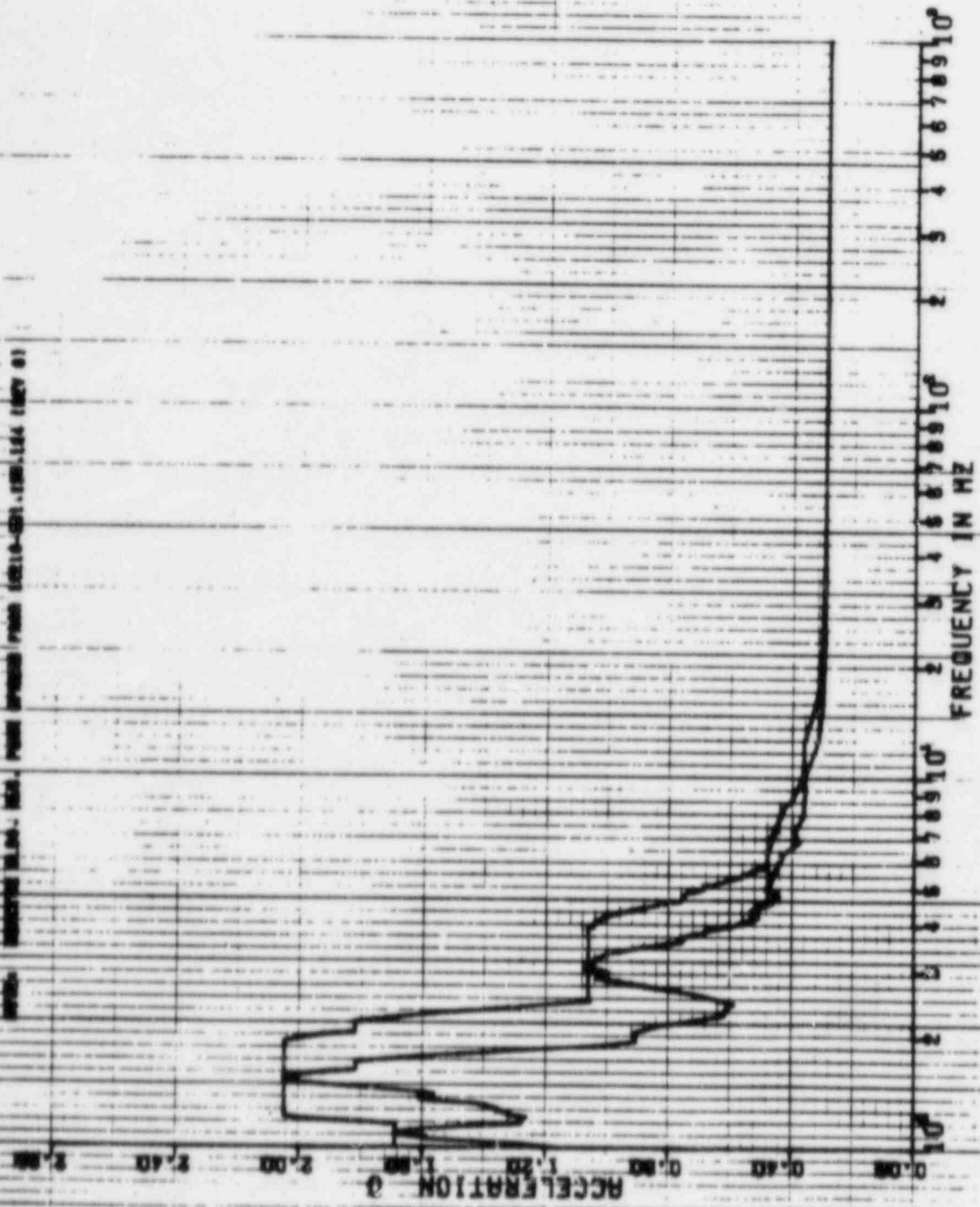
R. MAY

DAMPING VALUE = 0.030

PROJECTION PER 01 LEV 07
SULF STATE UTILITIES-KOS UNIT 1-CALC12210-WHIC-1-302-1903 REV101
RES OF REC-RESECTION BL00-EL-139.00, WMS-24 SE18 MONEL-DEWELL
PEAK APPREX 1-200.565Z

DISK CURVE DET NO.48
1.0 SSE NON DIRECTION

WMS- MONEL BL00- EL-139.00, WMS-24 SE18 MONEL-DEWELL (REV 01)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SDE-1903 REV(0)
KRS OF ACC.-REACTOR BLDG. EL=199.00. MASS=24 SEIS MODEL-DRYWELL
PEAK SPREAD=20% 25% SDE

DISK CURVE SET NO. 45

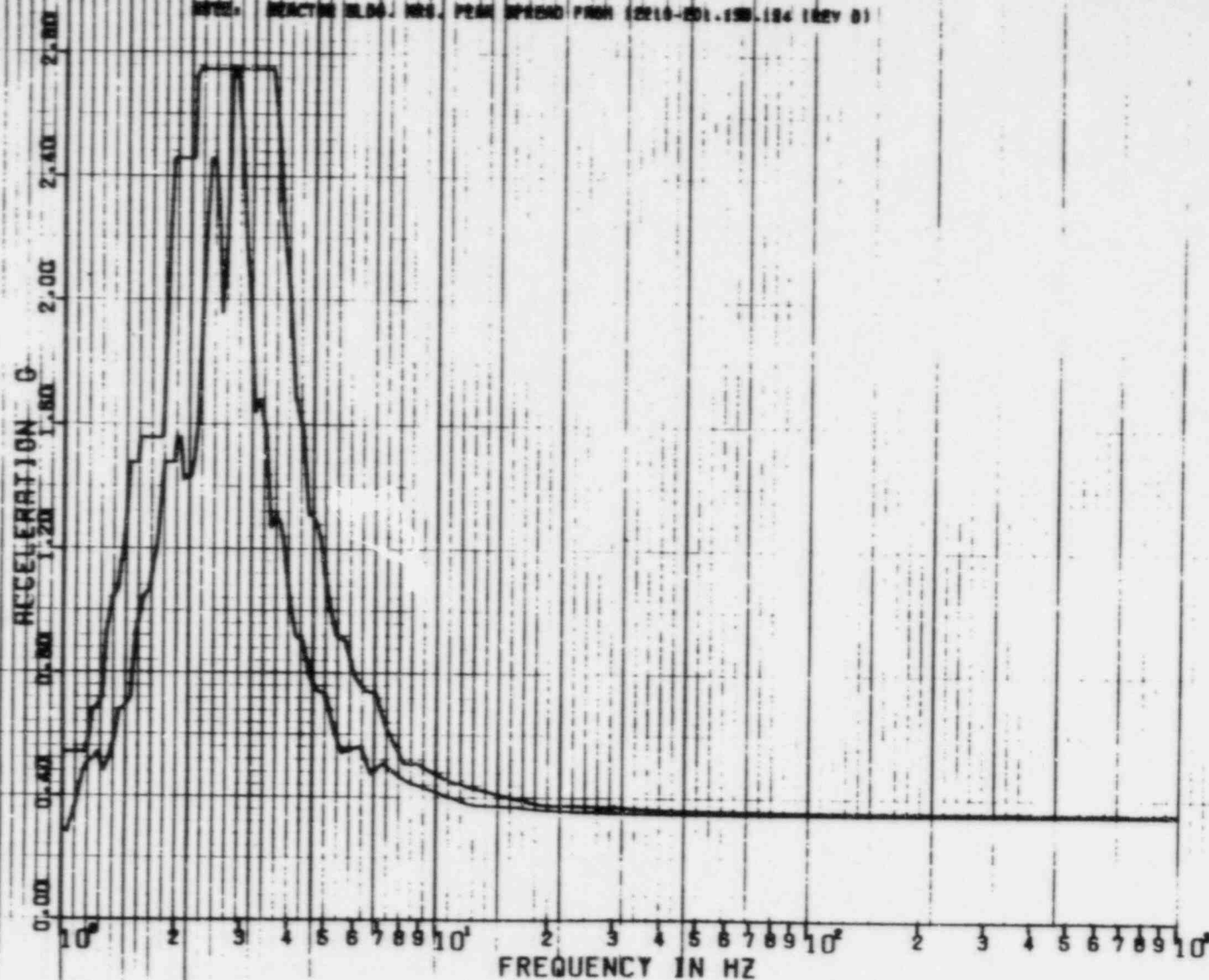
1.0 SDE

VER DIRECTION

K.KAY

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-201.199.124 (REV 01)



REF 93

CONF STATE UTILITIES - RPS UNIT 1 - CALCIUM HYDROXIDE - SEP-1993 REVD
RPS OF RCC - REACTOR BLOOD - 133.00. MASS=2.4 SEIS MODUL-DRAWNELL
230055000-103422

REGD 908800 207 1957

97 ON 155 BAND MFC

ISSN 0013-788X

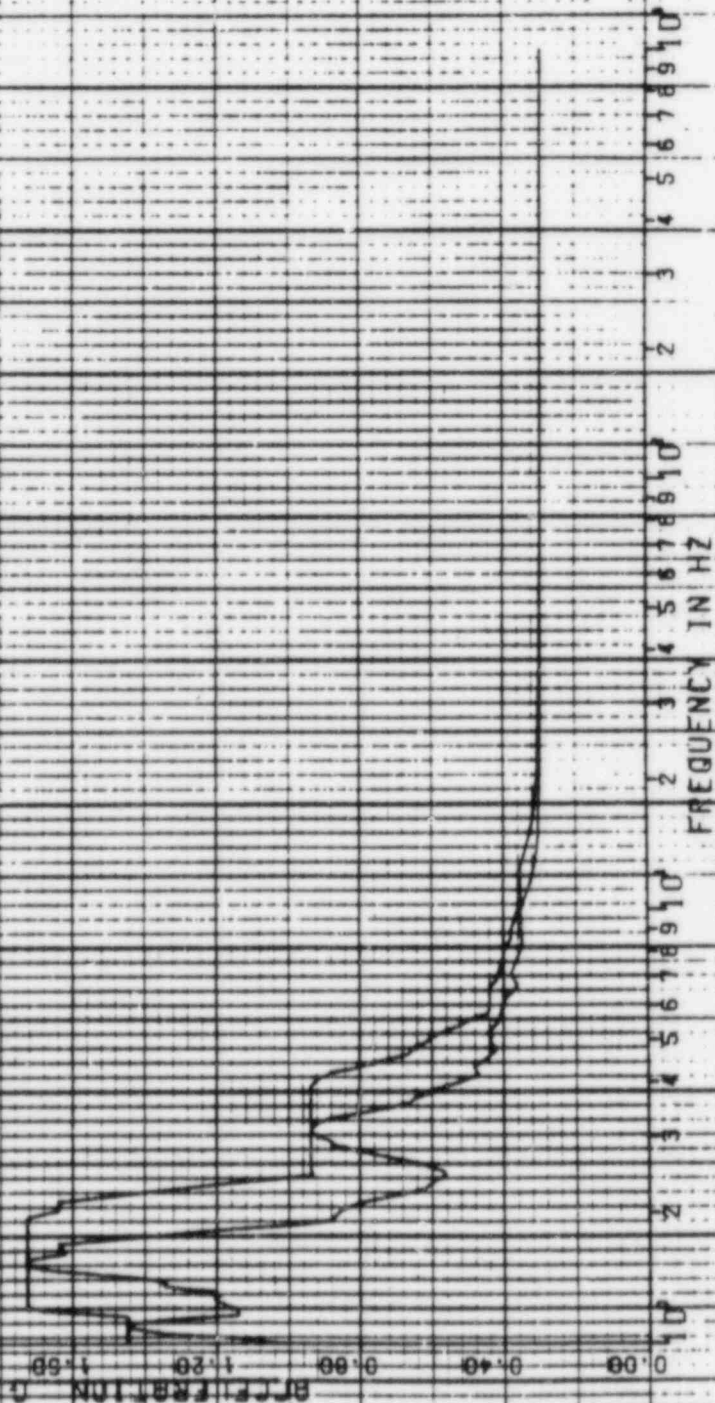
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22 APR 1982

K. Kay

DAMPING VALUE = 0.040



PSPEC10A VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC 12210 WHICH-SOL 1989 REV 03
 RPS OF ACC-RECTOR BLOC 11-139.00, MASS-01 SETS MODEL-DRYWELL
 PEAK SPREAD 1.000.152

DISK CURVE SET NO. 16

1-D SSE

VER DIRECTION

NOTE: REACTION BLOC HAS BEEN SPREAD FROM 12210-201 (50.24 144V 0)

DAMPING VALUE = 0.010

22 APR 1989

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PSPECTRA VER 01 LEV 07

22 APR 1982

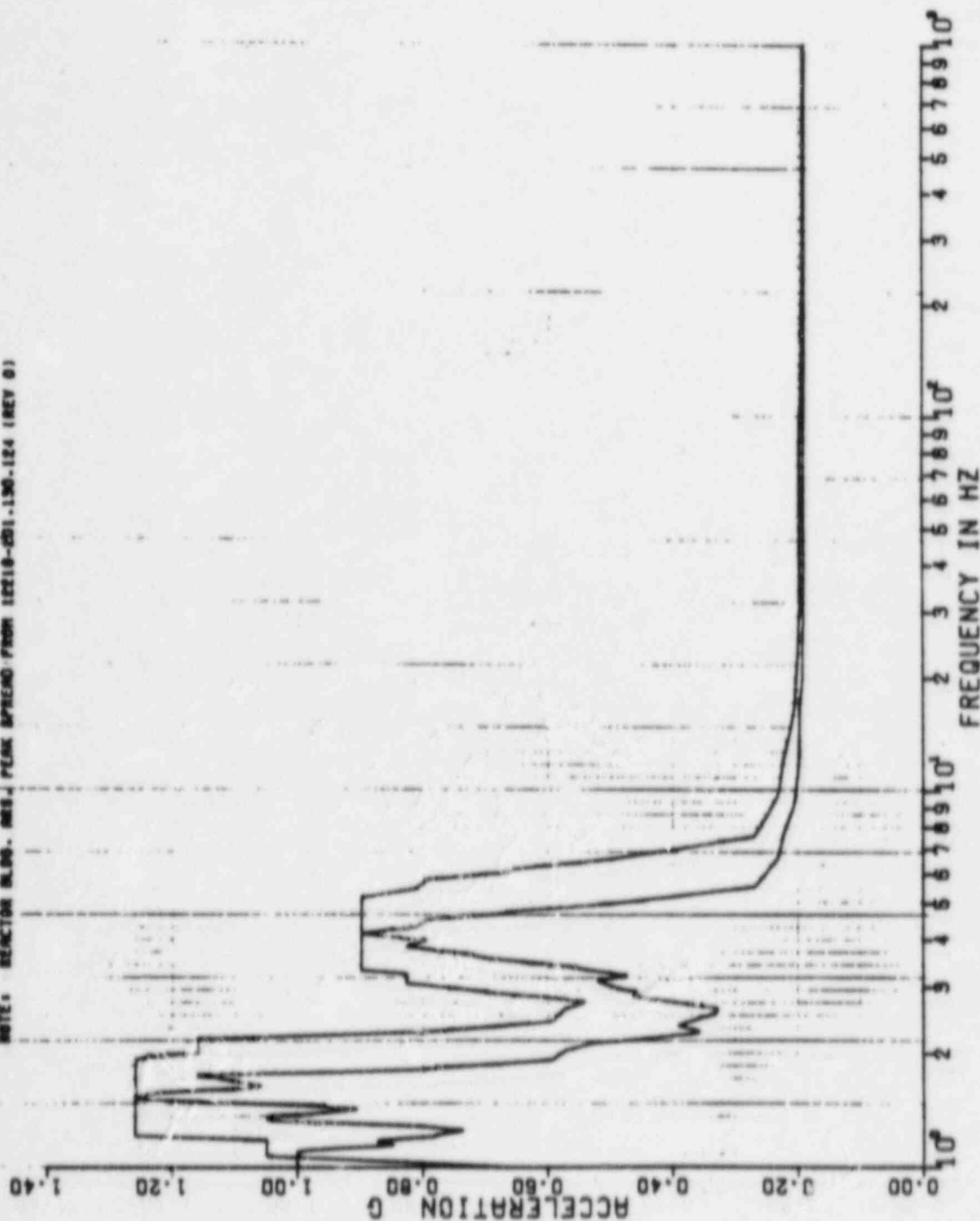
DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SQE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG. EL=143.00, MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20Z,+25Z

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.47 0.5 SSE HOR DIRECTION

NOTE: REACTOR BLDG. MES. PEAK SPREAD FROM 12210-201-130-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12710-NM(C)-SQE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG-EL=143.00.MASS=25 SEIS MODEL-DRYWELL
PEAK SPREAD -20%+25%

08E

K.KAY

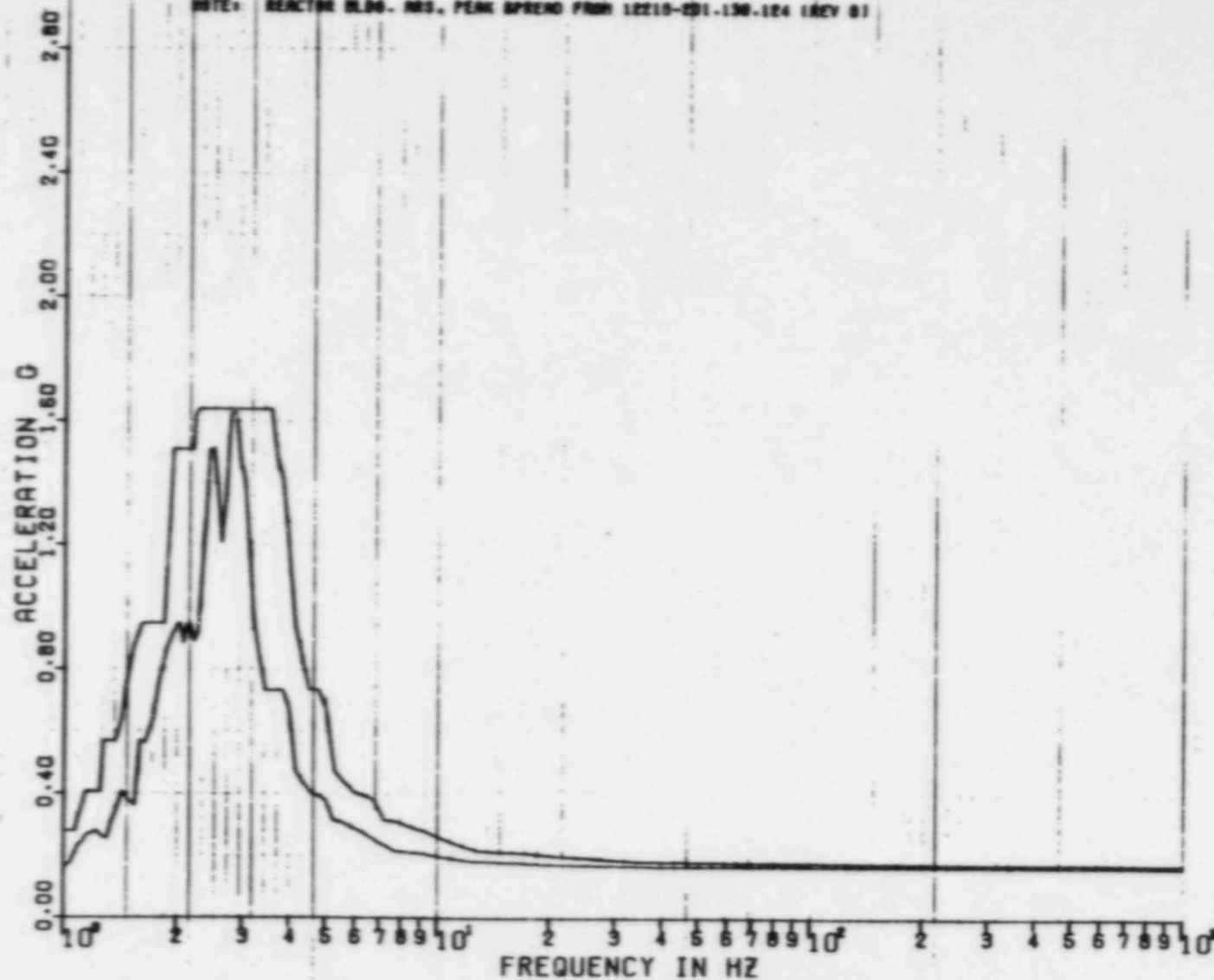
DISK CURVE SET NO.47

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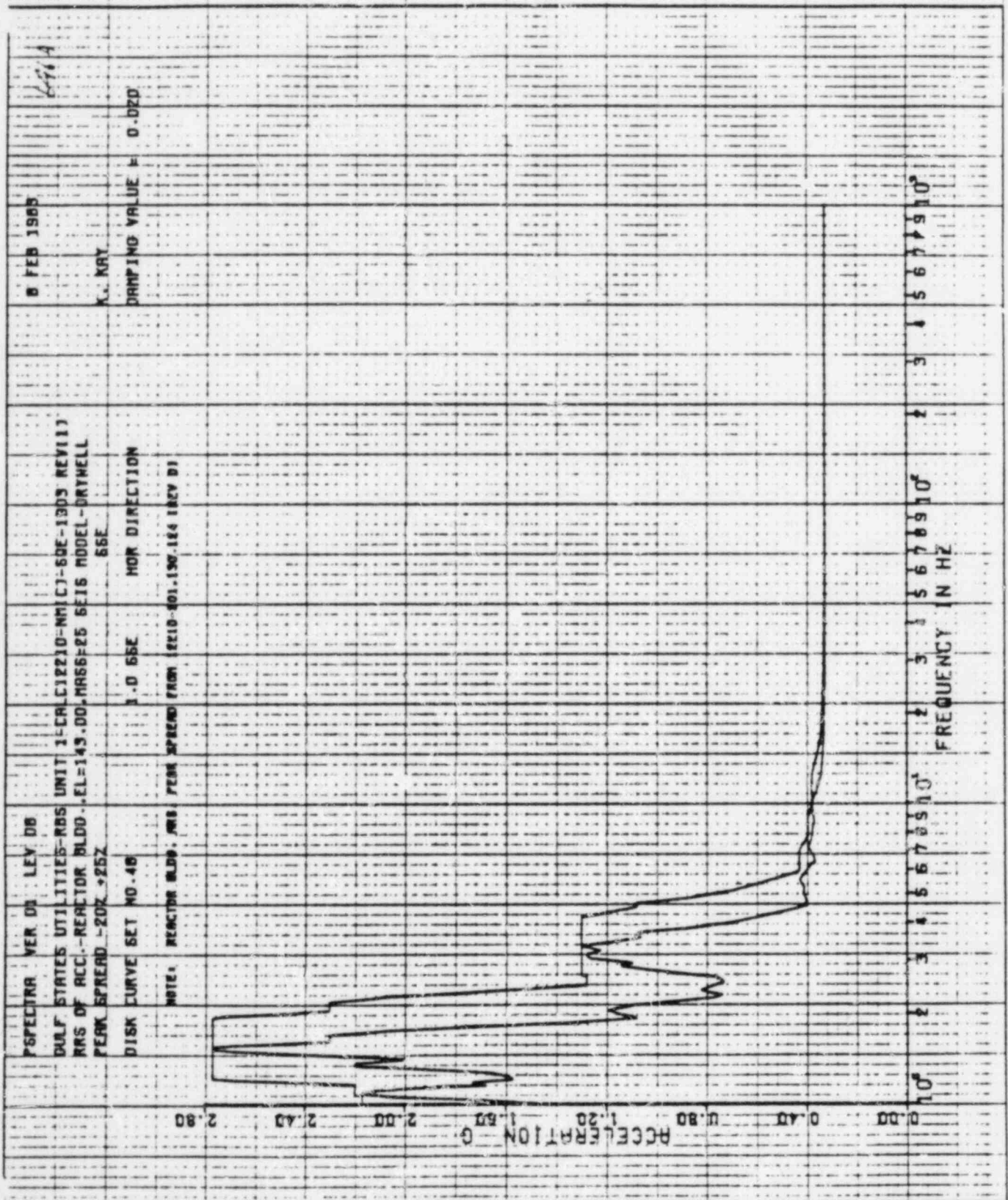
VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-201.130-124 (REV 01)



REF 94



6474

8 FEB 1965

K. MAY

DRAWING VALUE = 0.020

PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CRCL12210-NMIC1-50E-1903 REV111
RMS OF ACC.-REACTOR BLDG.-EL-143.00/MRSS-25 5E16 MODEL-DRYNELL
PEAK SPREAD -20% +25%
55E

VER DIRECTION

1.0 55E

DISK CURVE SET NO. 48

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-101-136.124 INEV 07

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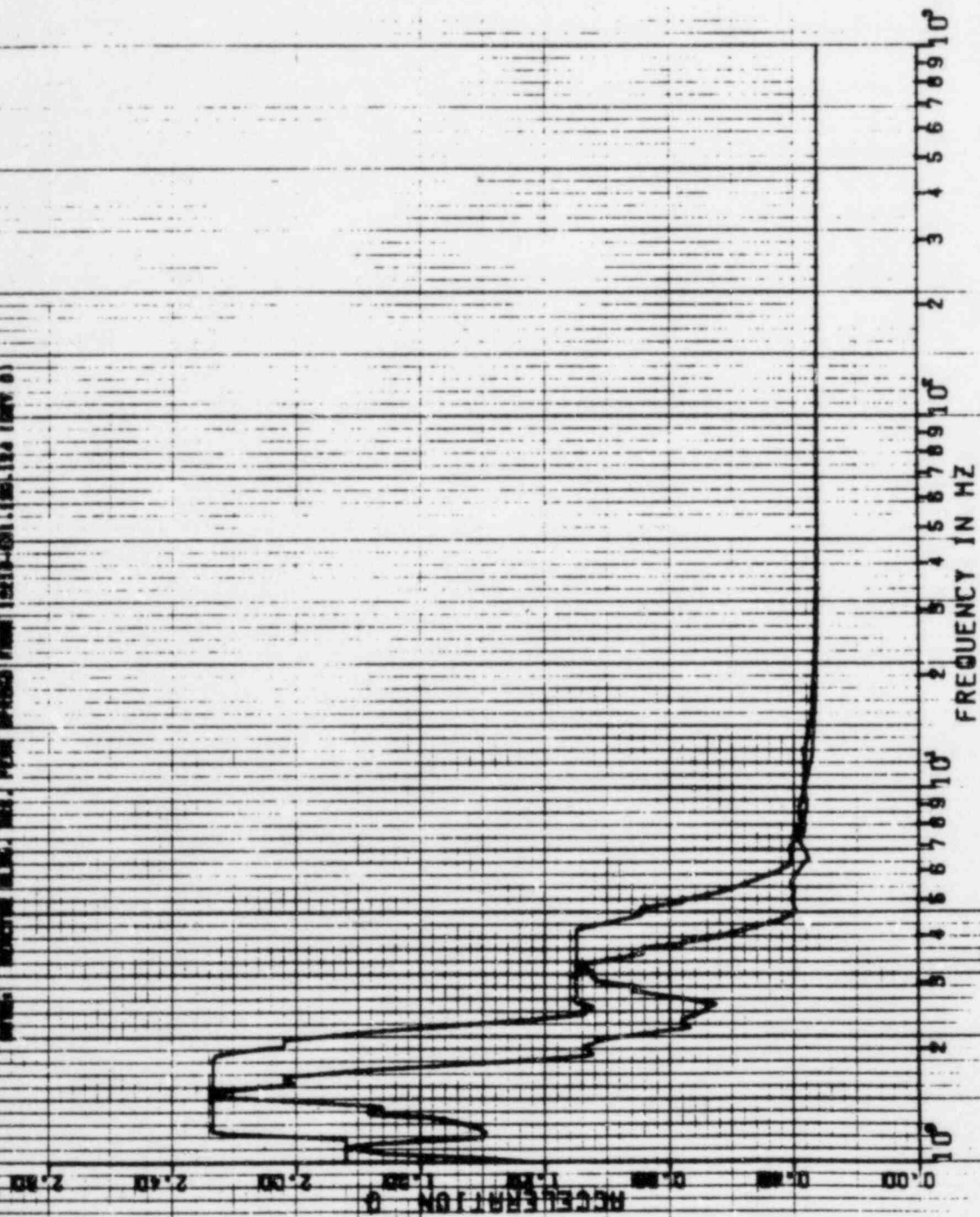
36 1

22 APR 1982

K-KAY

DAMPING VALUE = 0.050

PSPECTR VER 01 LEV 07
 GULF STATE UTILITIES-RSS UNIT 1-CALC12210-WHICJ-SSE-1903 REV 01
 RSS OF ACC.-REACTOR BLDG-EL-143.00, MAGS-25 SEIS MODEL-DRYWELL
 PERK SPEED -202.625X
 DISK CURVE SET NO.48
 1-D SSE HOR DIRECTION
 DATA MONITORING MAG. FROM 1512-001 (00.124 (REV 0)



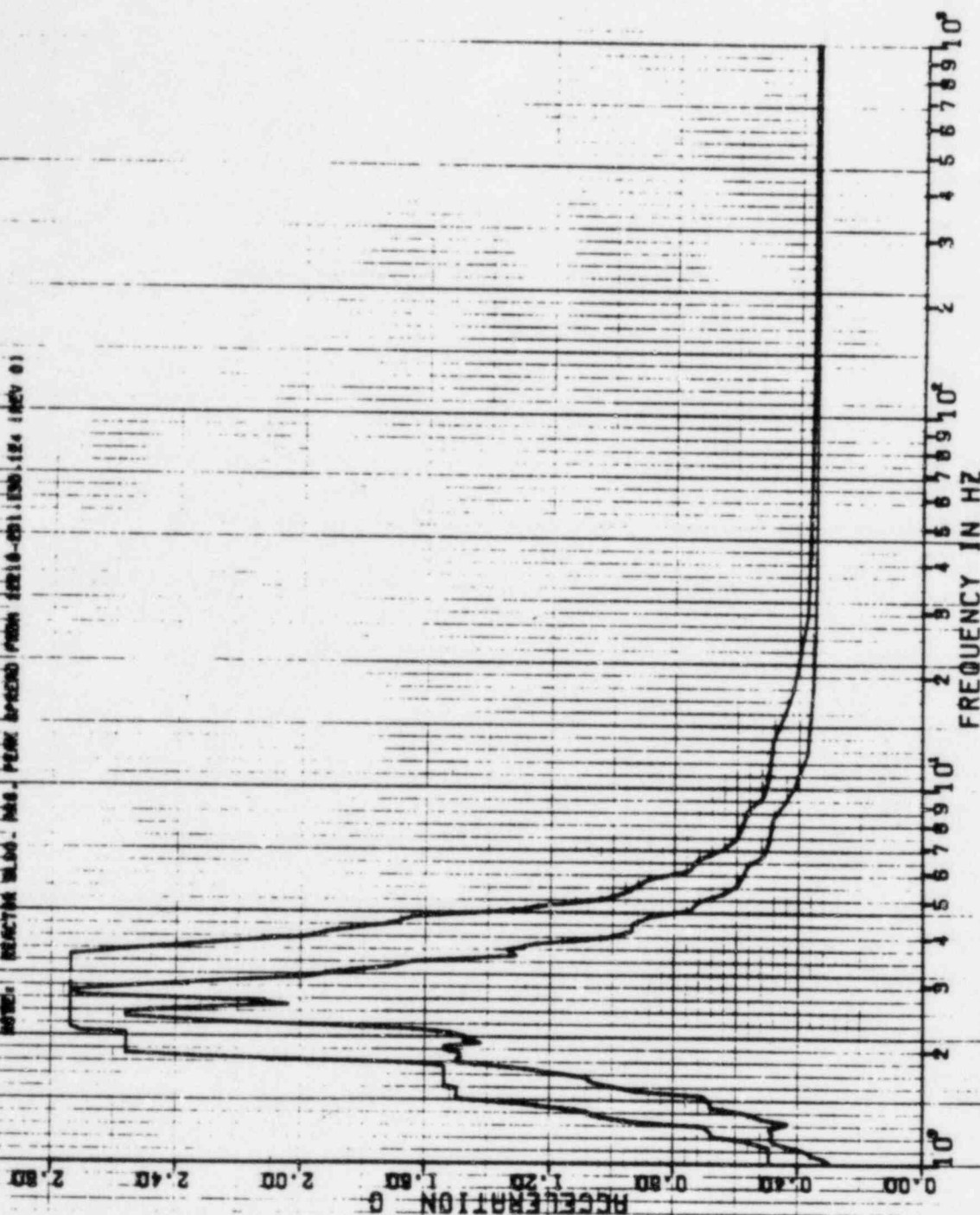
22 APR 1982

3-2-A

K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NN(C)-SDE-1903 REV10)
 RRS OF ACC.-REACTOR BLDG.-EL-143.00.MASS=25 SE16 MODEL-DRYWELL
 PERK SPEED-1.201.25Z
 SEE
 DISK CURVE SET NO.48
 1.0 GSE VER DIRECTION
 NOTE: REACTOR BLDG. HAS PERK SPEED FROM 12210-251.150.124 (REV 0)



SPECTRA VER 01 LEV 07

CULF STATE UTILITIES WBS UNIT 1 - CRLL 12219 - UNIT 1 - SDE - 1903 REV 01
RES OF REC. REACTOR BLOC. EL = 149.00. MASS 25 SETS MODEL ORYNELL
PEAK SPREAD 1.207.1257

DISK CURVE SET NO. 18

1.0.55E

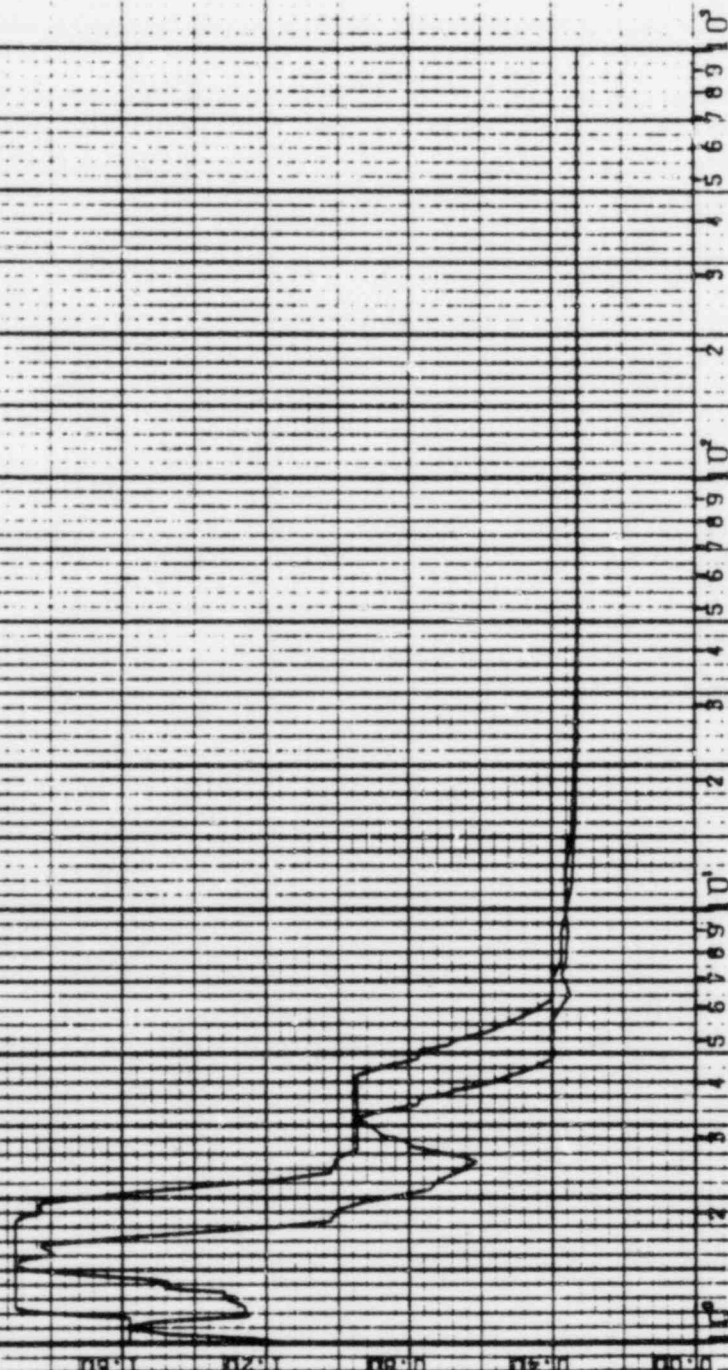
HOR DIRECTION

DAMPING VALUE = 0.010

NOTE: REACTOR BLOC. MASS. PEAK W/PROB FROM 12218-201 130.14 (REV 01)

ACCELERATION

FREQUENCY IN HZ



REF 94

INSPECTOR VER DI LEY 07

GULF STATE UTILITIES-RMS UNIT - CALC 22.0 HZ - SUE - 303 REV (0)
 RMS OF REACTOR BLOC EL-13.00 MASS-25 SE \$ MODEL ORYNELL
 PEAK SPREAD - 202.252
 SUE

DISK CURVE SET NO.10

0.0 SUE

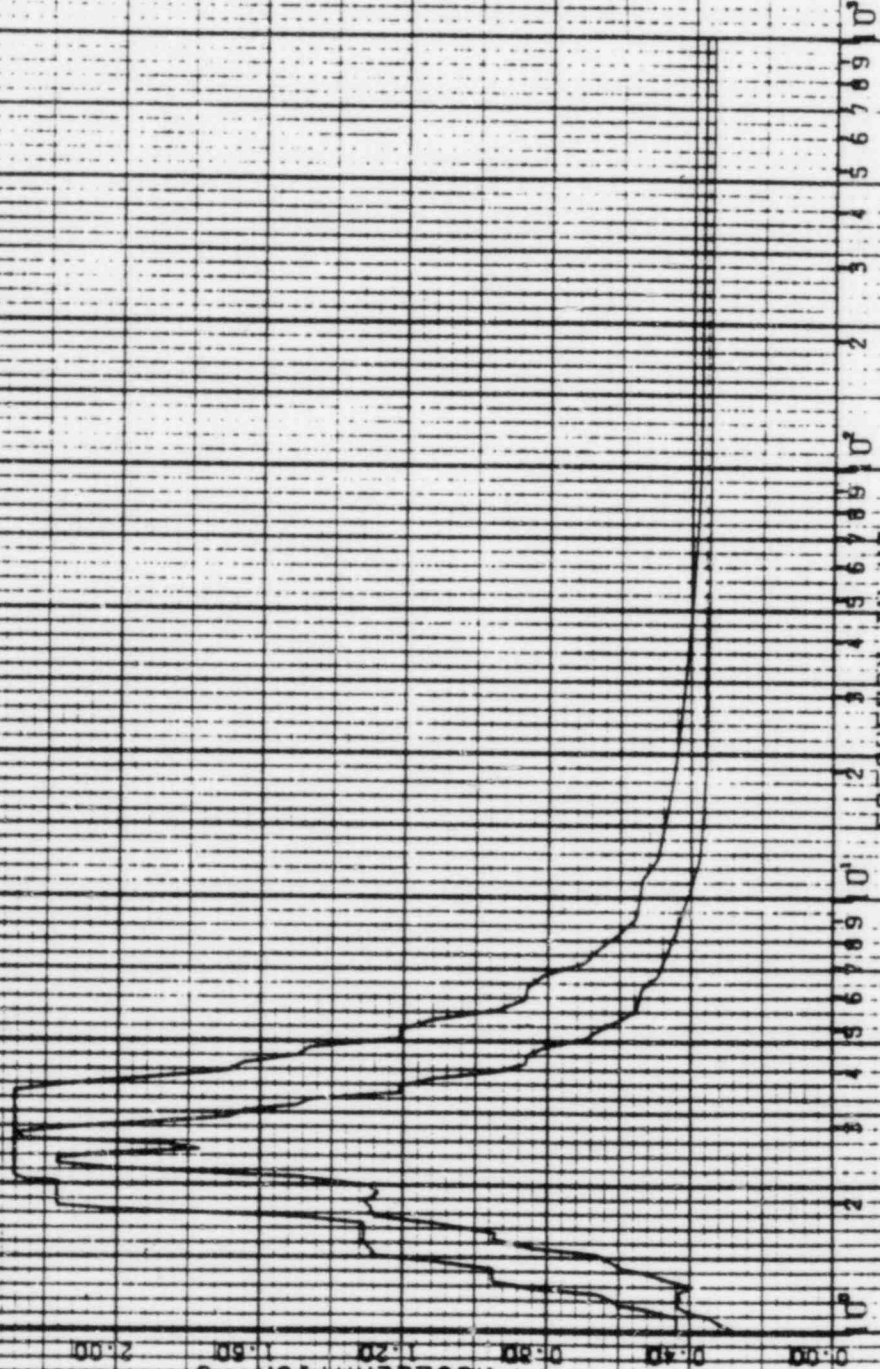
VER DIRECTION

DAMPING VALUE = 0.010

NOTE: REACTOR BLOC RMS PEAK SPREAD FROM 22.0-23.1 HZ 134.124 HZ 0.1

ACCELERATION G

FREQUENCY IN HZ



22 APR 1982

R-KAY

7.174

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-R86 UNIT 1-CALC(12210-NM(C))-SQE-1903 REV(10)
 RRS OF ACC.-REACTOR BLDG. EL=162.00, MASS=26 SEIS MODEL-DRYWELL
 PEAK SPREAD -20%+-25%
 OBE

DISK CURVE SET NO.49

0.5 SSE

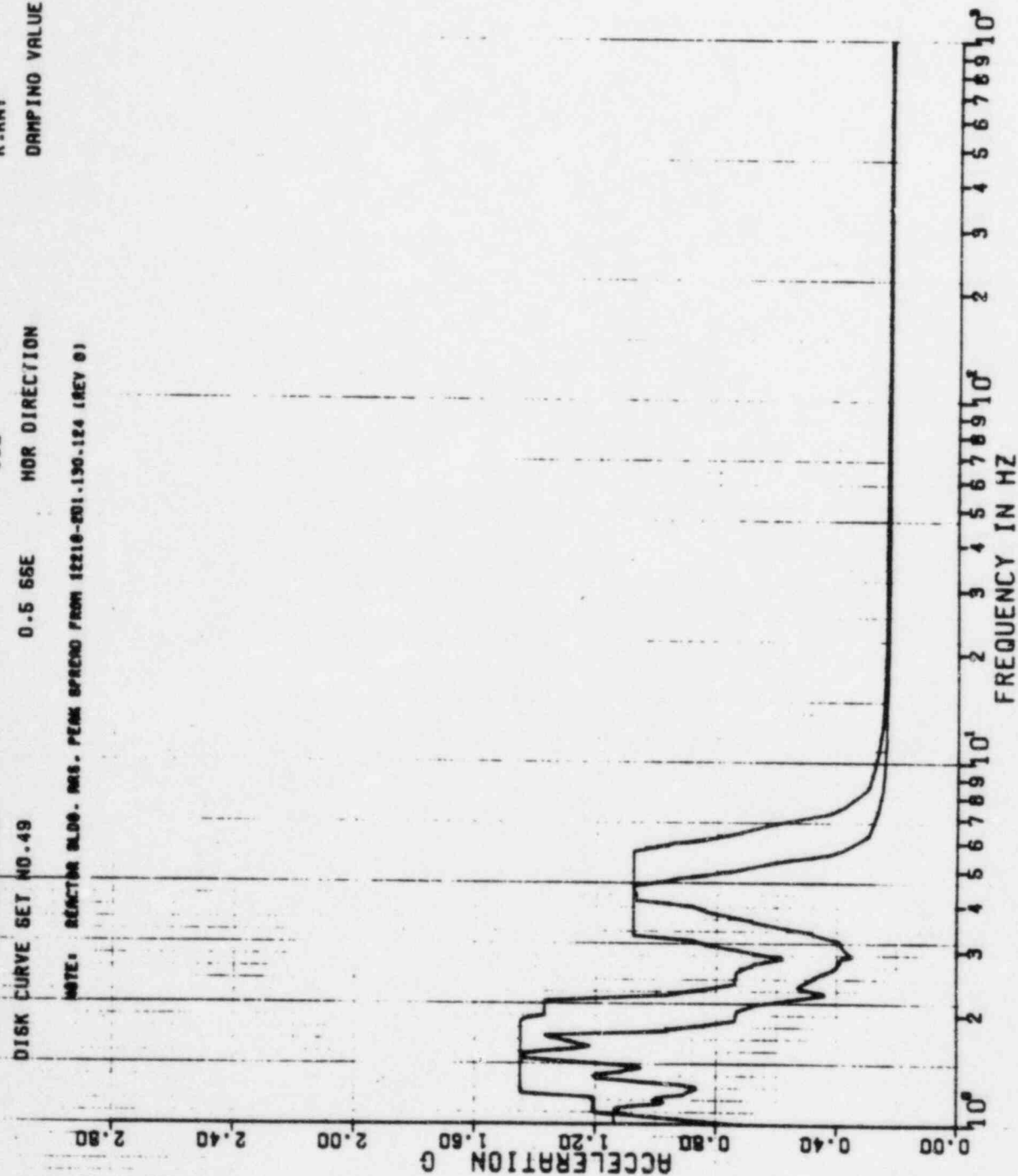
HOR DIRECTION

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.150.124 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MH.1.1)-SDE-1903 REV(0)
RMS OF ACC.-REACTOR BLDG. EL=162.00, MASS=26 SET6 MODEL-DRYNELL
PEAK SPREAD -20%+25%
DBE

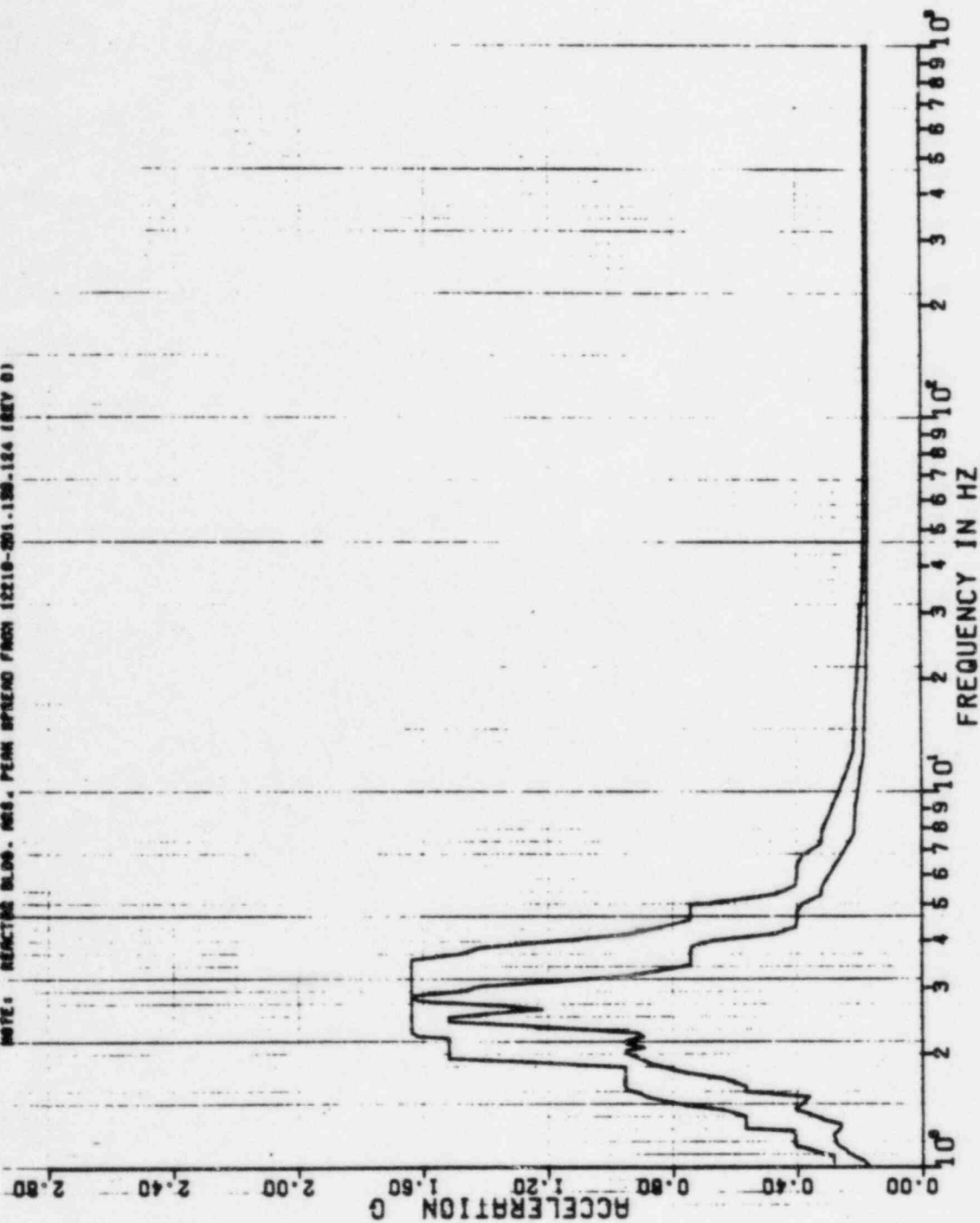
DISK CURVE SET NO.49

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-201.120-124 (REV 0)



6444

6 FEB 1963

K. KRY

DRAWING VALUE = 0.020

PSPECTRA VER 01 LEV 06
 GULF STATES UTILITIES-RSS UNIT 1-CALC12210-NH17-50E-1903 REV11
 RRS OF ACC.-REACTOR BLDG. EL-182.00, MASS-25.5E16 MODEL-DRYWELL
 PEAK SPREAD -20% +25%
 DISK CURVE SET NO.50
 NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 1210-501.192.184 (REV D)
 1.0 55E
 HOR DIRECTION

ACCELERATION

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5-4-74

8 FEB 1965

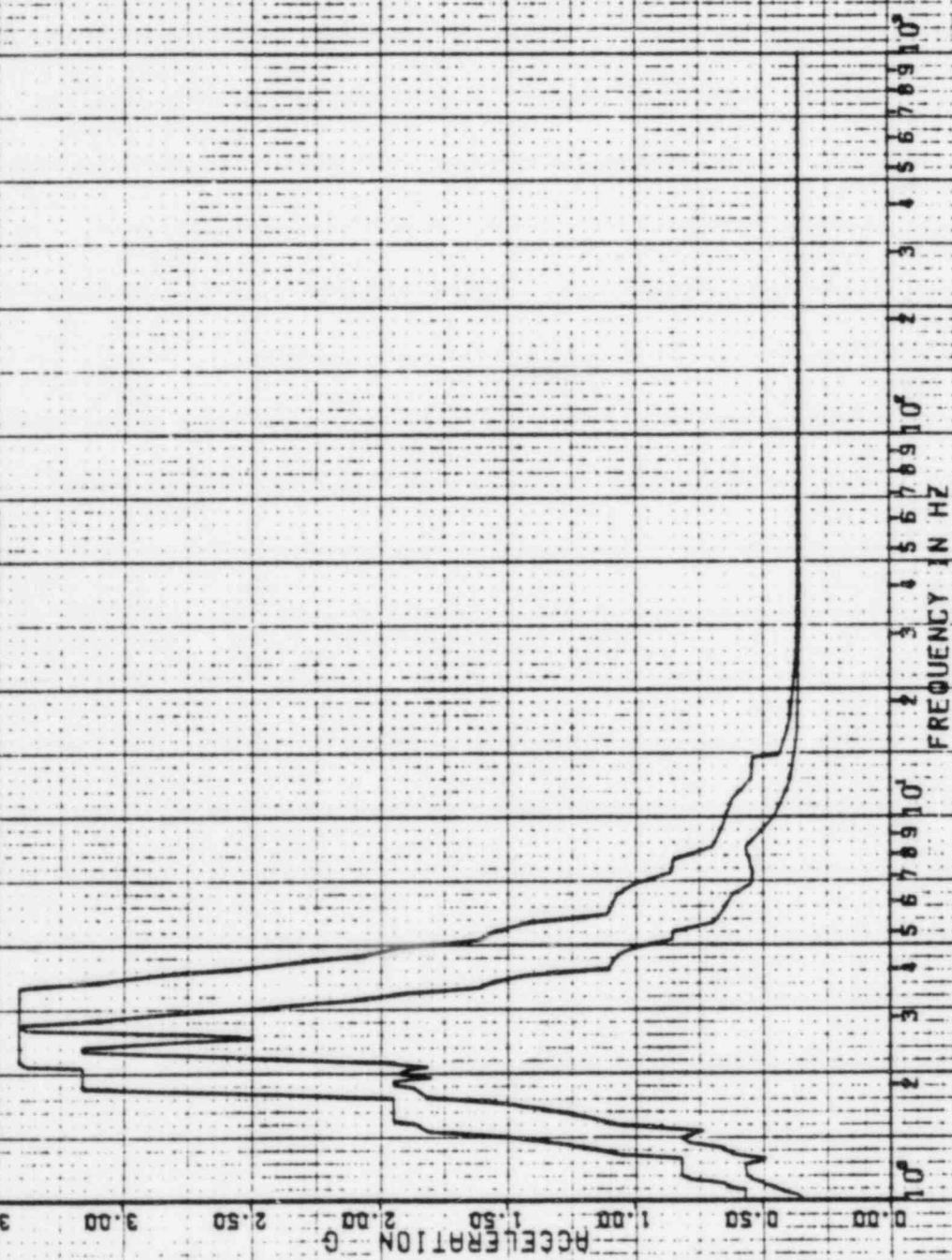
K. KAY

DAMPING VALUE = 0.020

UNIT: 1-CALC12210-MMIC-5DE-1903 REV11)
 GULF STATES UTILITIES-R06
 NRS OF ACC.-REACTOR BLDG.-EL-162.00, MASS-26 5E16 MODEL-DRYNELL
 PEAK SPREAD -20% +25Z
 DISK CURVE SET NO.50

1.0 55E. VER DIRECTION

NOTE: REACTOR BLDG. NRS. PEAK SPREAD FROM 12210-501.130.124 (REV D)



FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

3.14

GULF STATE UTILITIES-RSS UNIT 1-CALL 12210-NAIC1-SSE-1903 REV(0)
RMS OF ACC.-REACTOR BLDG. EL=162.00.MASS=26 SEIS MODEL-DRYNELL
PEAK SPREAD -20%+25% SSE

DISK CURVE SET NO.60

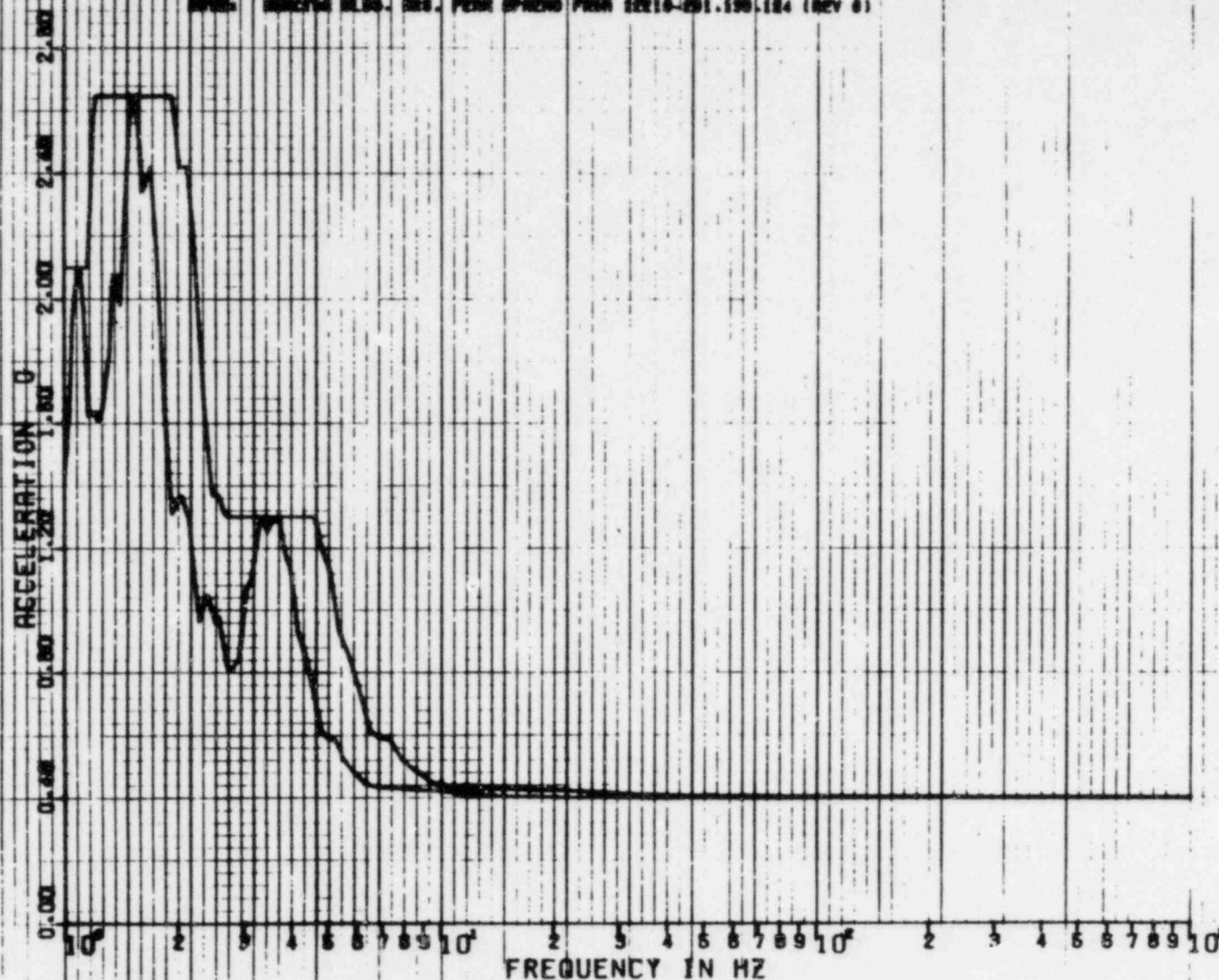
1.0 SSE

HOR DIRECTION

K.KAY

DAMPING VALUE = 0.030

RMSE: RMSE OF BLDG. RMS. PEAK SPREAD FROM 12210-NAIC1.130.124 (REV 0)



REF 95

22 APR 1982

32-A

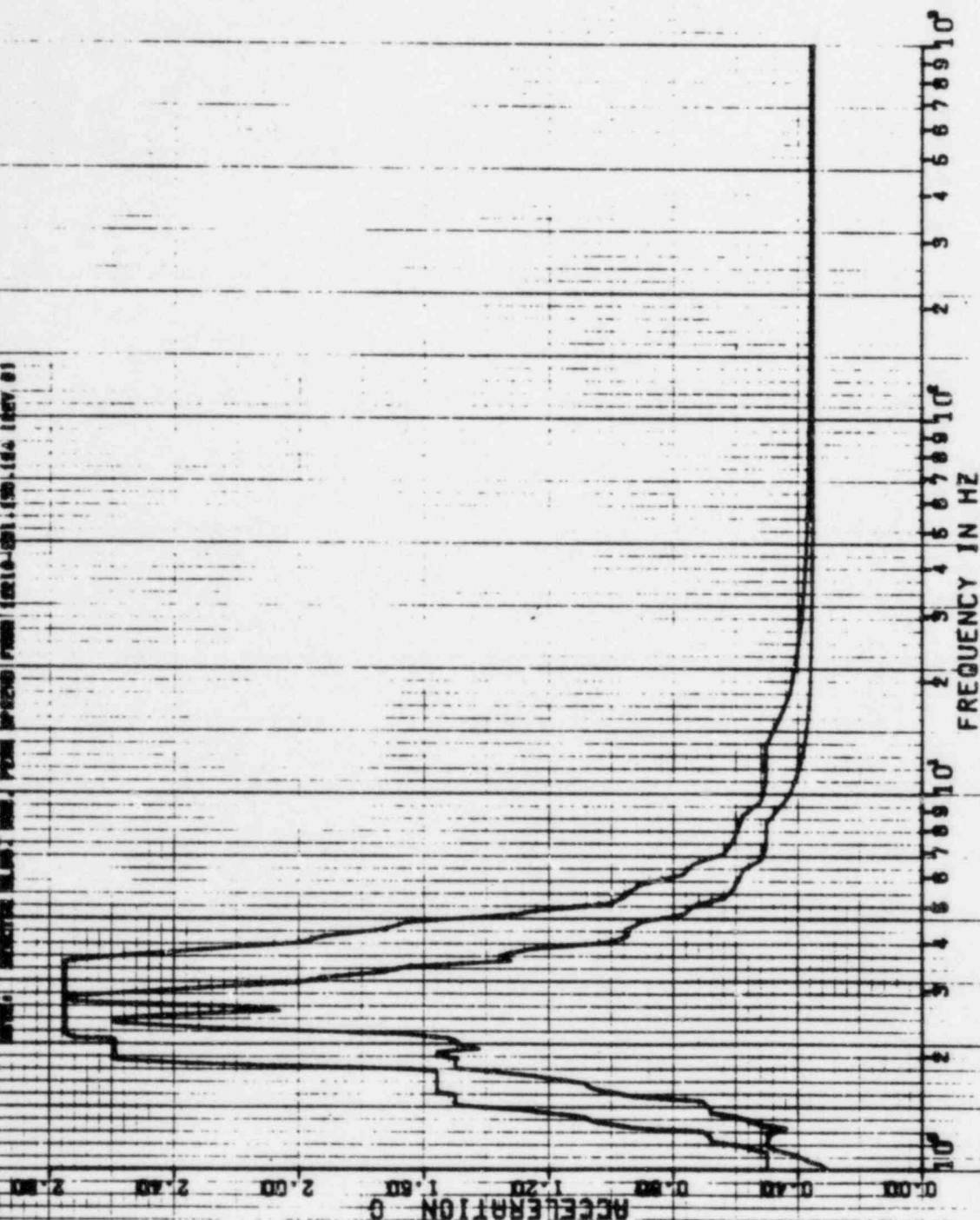
K.KAY

DAMPING VALUE = 0.030

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-KBS UNIT 1-CALC12210-WHIC)-50E-1903 REV10)
 KBS DE REC-REACTOR BLDG-FL-162.00-MAGS-26 SE16 MODEL-ORTWELL
 PERK SPACED -2021-25Z

DISK CURVE SET NO. 50
 1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG. HAS BEEN SPACED FROM (2210-00) (50) (64) (REV. 8)



PEPECTRA VER D8 LEV D7

GULF STATE UTILITIES-RBS UNIT 1-CALL 12210-NH17-501-1909 REV 0
 RBS OF ACC-REACTOR BLDG-ELL-162-00-MASS-26 SEE MODEL DRYWELL
 PEAK SPREAD 120K-25K

DISK CURVE SET NO. 50

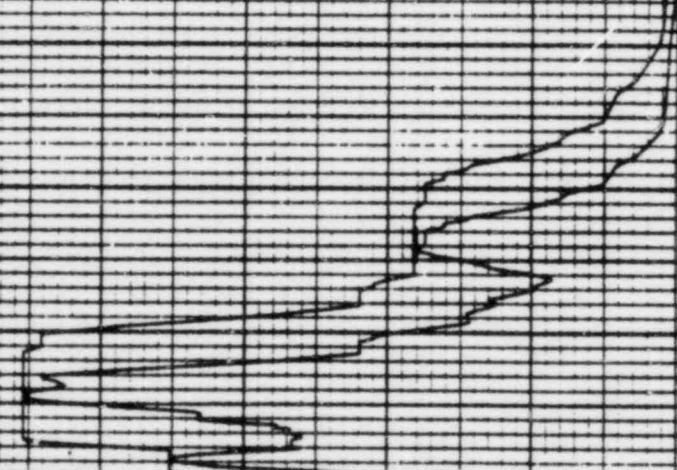
I-D 55E HDR DIRECTION

NOTE: REACTOR M.B. HAS PEAK SPREAD FROM 12210-201-150-124 18KV U1

22 APR 1982

K-KRY

DAMPING VALUE = 0.040



FREQUENCY IN HZ
 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8 10^9 10^10

PEPECTRA VER. D1 LEV D7

CULT STATE UTILITIES - RBS UNIT 1 - CAL 1220 D1 NHTC - SDE - 1908 REV D3
RBS OF ACC - REACTOR BLDG EL-162 DD. HASSES SEIS MODEL - DRYWELL
PEAK SPEED 1.20V 1.25V

DISK CURVE SET NO. 50

A-D 55E

VER DIRECTION

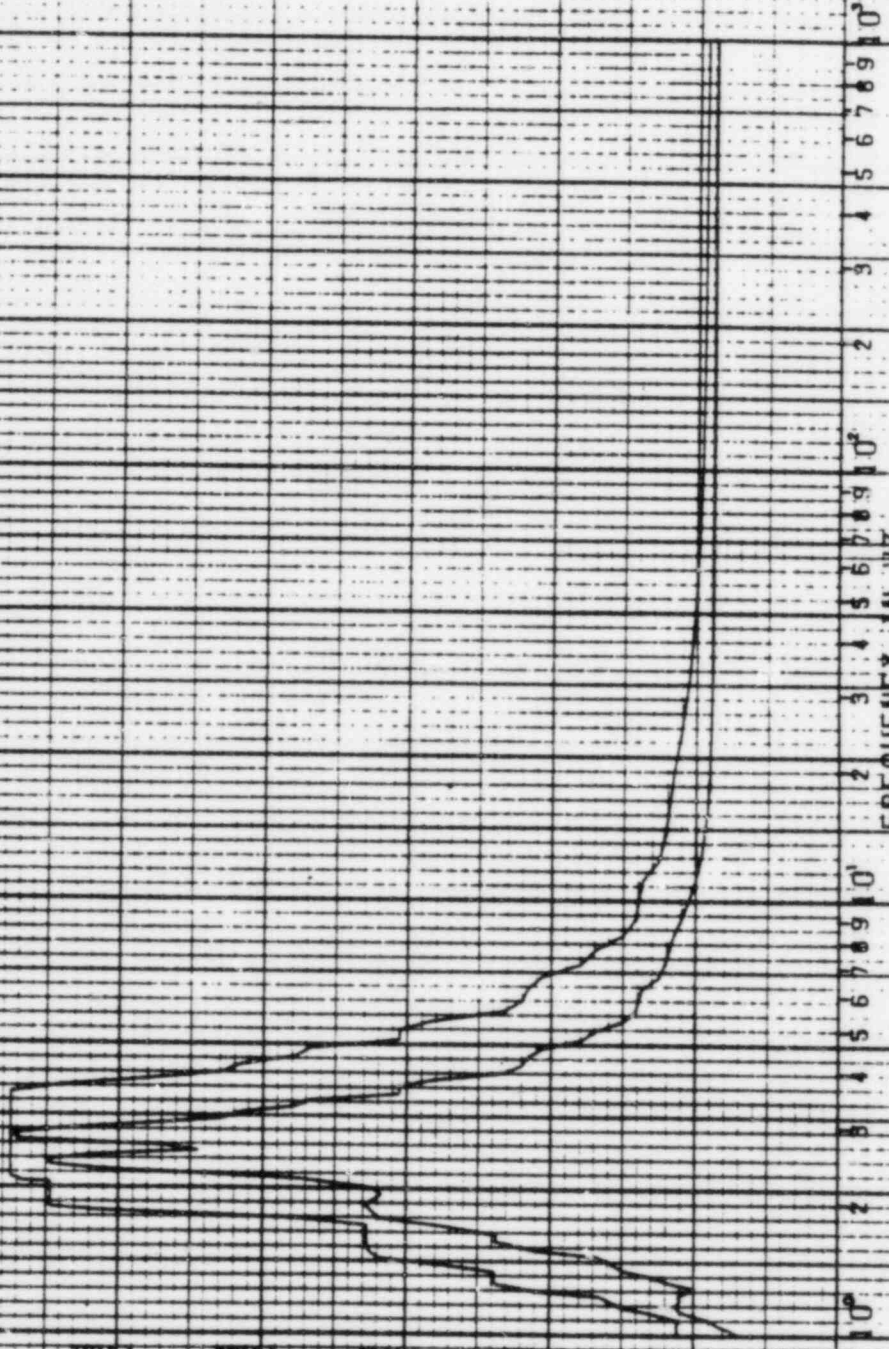
NOTE: REACTION BLDG HAS PEAK SPEED 1.20V 1.25V (SO 12 12V 5)

X-KRY

DAMPING VALUE = 0.000

22 APR 1982

ACCELERATION G
0.00 0.40 0.80 1.20 1.60 2.00 2.40 2.80



FREQUENCY IN HZ

0 1 2 3 4 5 6 7 8 9 10

PSPECTRA VER 01 LEV 07

22 APR 1982

25

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NMIC)-SDE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.EL=185.00,MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25%

OBE

K.KAY

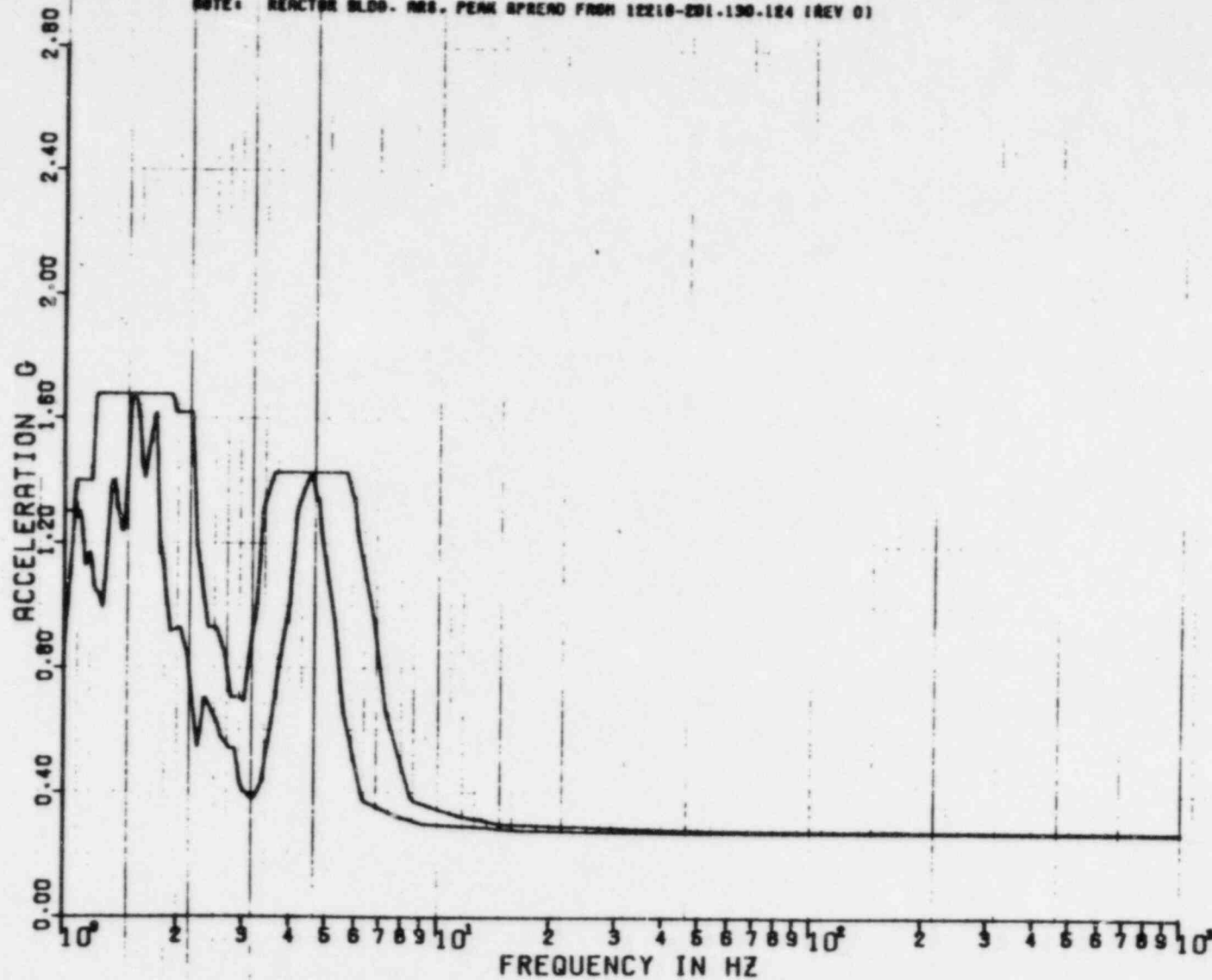
DISK CURVE SET NO.51

0.6 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-201.130.124 (REV 01)



REF 96

PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1903 REV(0)
RRS OF ACC.-REACTOR BLDG.EL=185.00,MASS=27 SEIS MODEL-DRYWELL
PEAK SPREAD -20%,+25% ODE

K.KAY

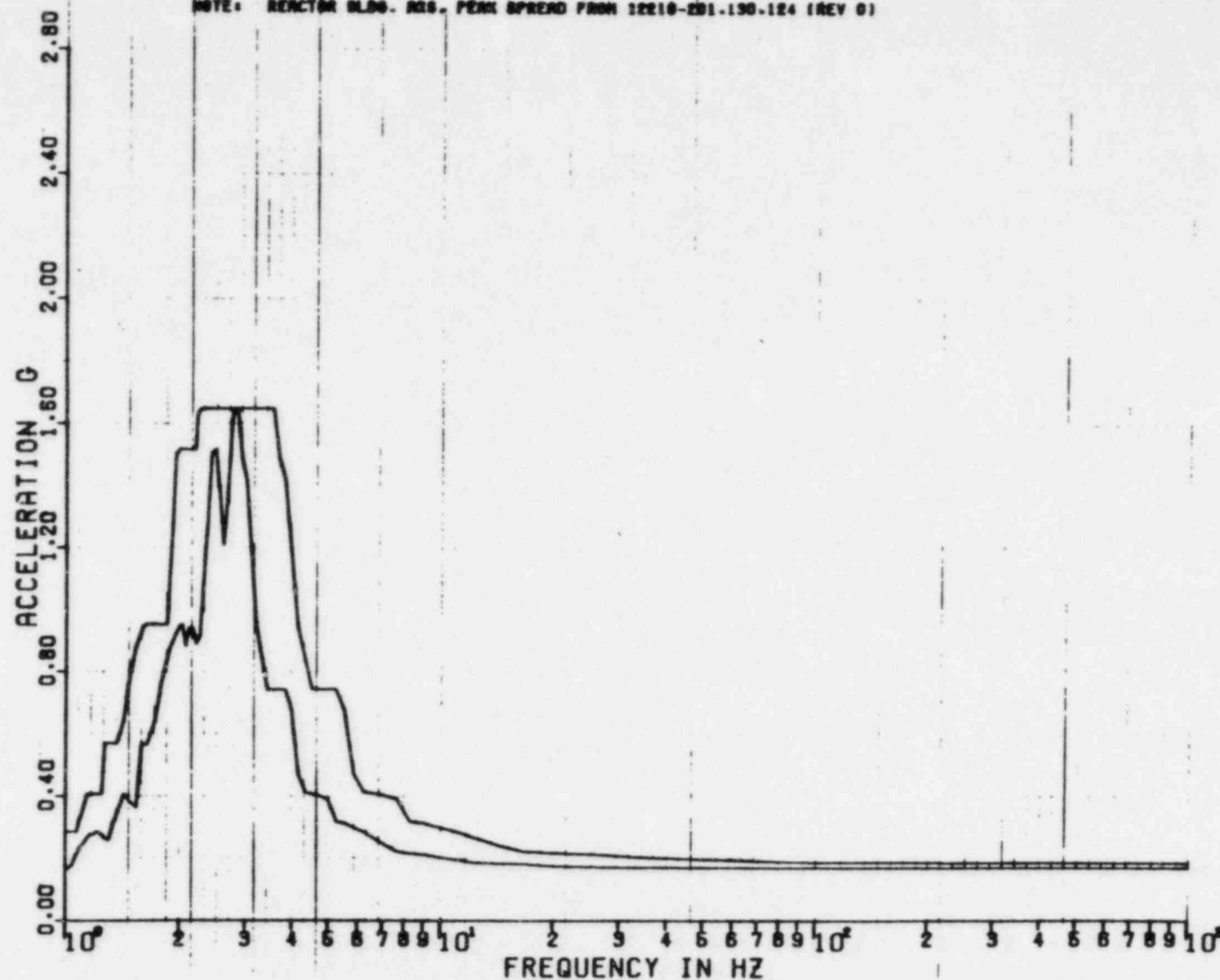
DISK CURVE SET NO.51

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 96

PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-NM1C1-5DE-1903 REV11)
 PWS OF ACC.-REACTOR BLDG.-FL-1B5-00.MRS6-27 SE16 MODEL-DRYWELL
 PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.52

1.0 55E

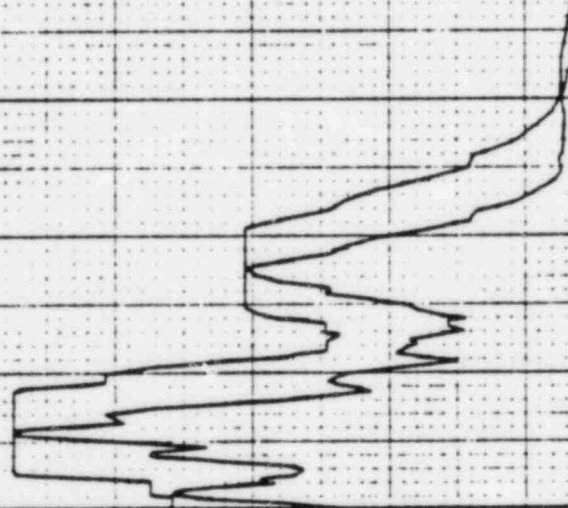
HOR DIRECTION

DRAFTING VALUE = 0.020

NOTE: REACTOR BLDG. PWS. PEAK SPREAD FROM 12210-201.150.124 (REV 0)

ACCELERATION G

FREQUENCY IN HZ



6 FEB 1983

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8 FEB 1965

K. KAY

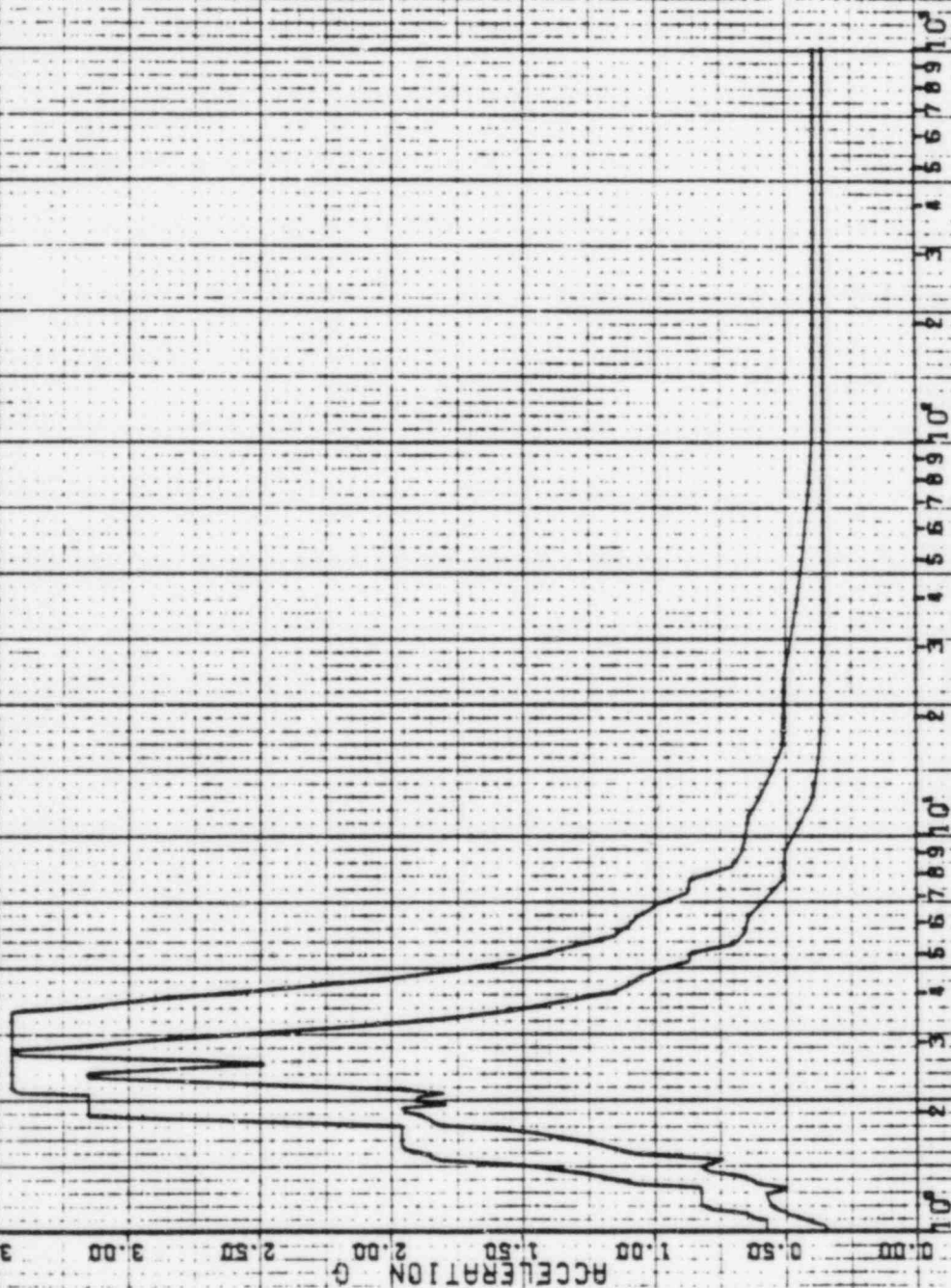
DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 06
GULF STATES UTILITIES-RDS UNIT 1-CALC12210-MN1C1-50E-1805 REV111
RRS OF ACC.-REACTOR BLDG.-EL-185.00, MASS=27 5E16 MODEL-DRYWELL
PEAK SPREAD -20% +25%

1.0 55E VER DIRECTION

DISK CURVE SET NO. 52

NOTE: REACTOR BLDG. RDS. PEAK SPREAD FROM 12210-201.130.124 (REV B)



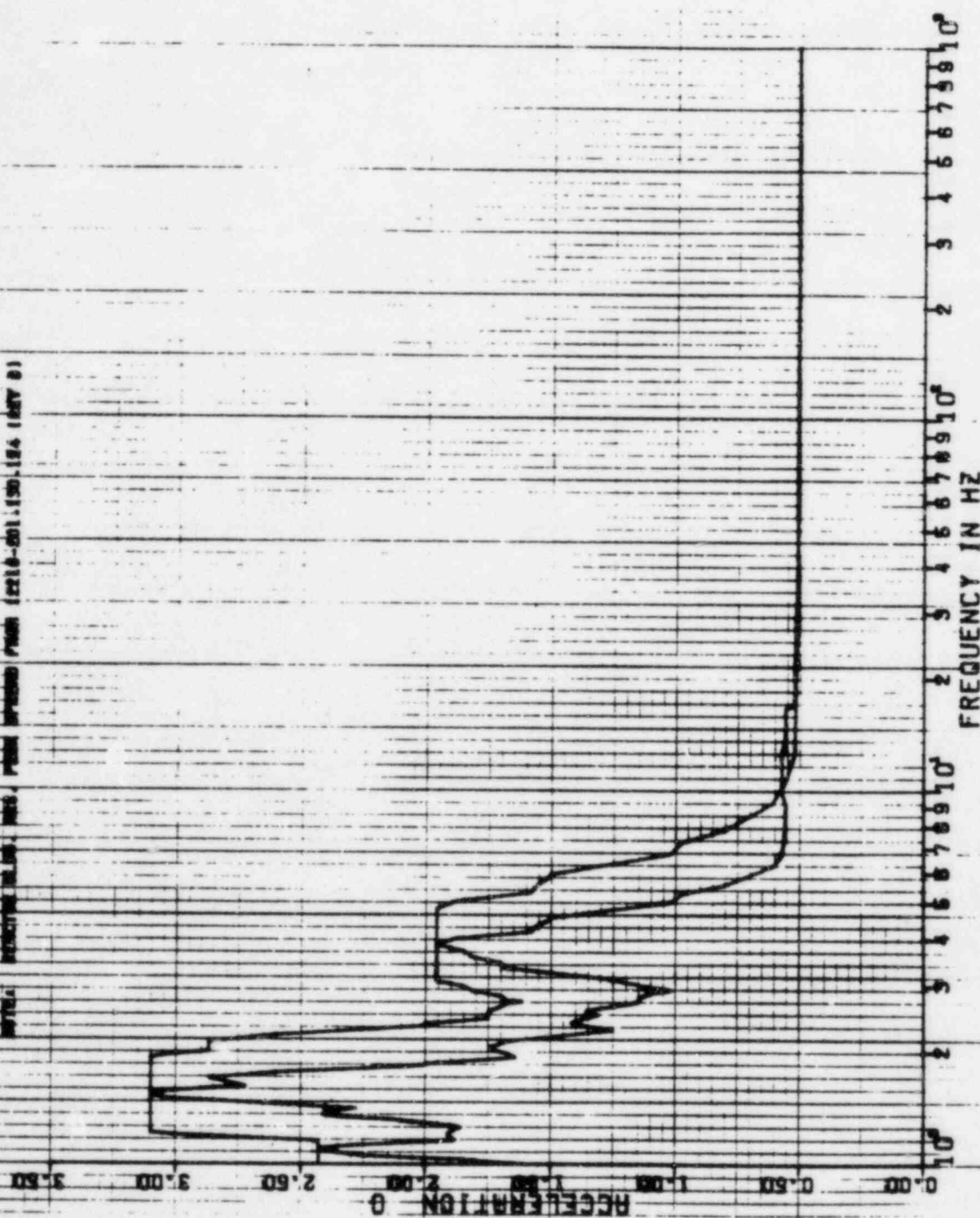
22 APR 1982

350A

K.KAY

DAMPING VALUE = 0.030

SPECTRA VER 01 LEV 07
 DOLBY SYSTEM UTILITIES-RBS UNIT 1-CALC12210-NM1C1-8UE-1909 REV(0)
 RRS OF REC-RECTOR BLDG-EL-185.00-NR55-27 SEIS MODEL-DAYWELL
 PERK SPREAD -20%+25%
 DISK CURVE SET NO.152
 1.0 SSE HOR DIRECTION
 NOTE: RECENTLY OBTAINED FROM 1210-201.150.154 (REV 8)



22 APR 1982

К. КАР

DAMPING VALUE = 0.050

10 JUL 1964
PAPER TON VER 01
LEV 07

SELF STATE UTILITIES-RBS UNIT 1-CALC12210-NN(C)-55E-1903 REV(0)

RECEIVED BY REC. - DETECTOR BLDG. EL=106.00. PASS=27 SEIS MODEL - DRYWELL

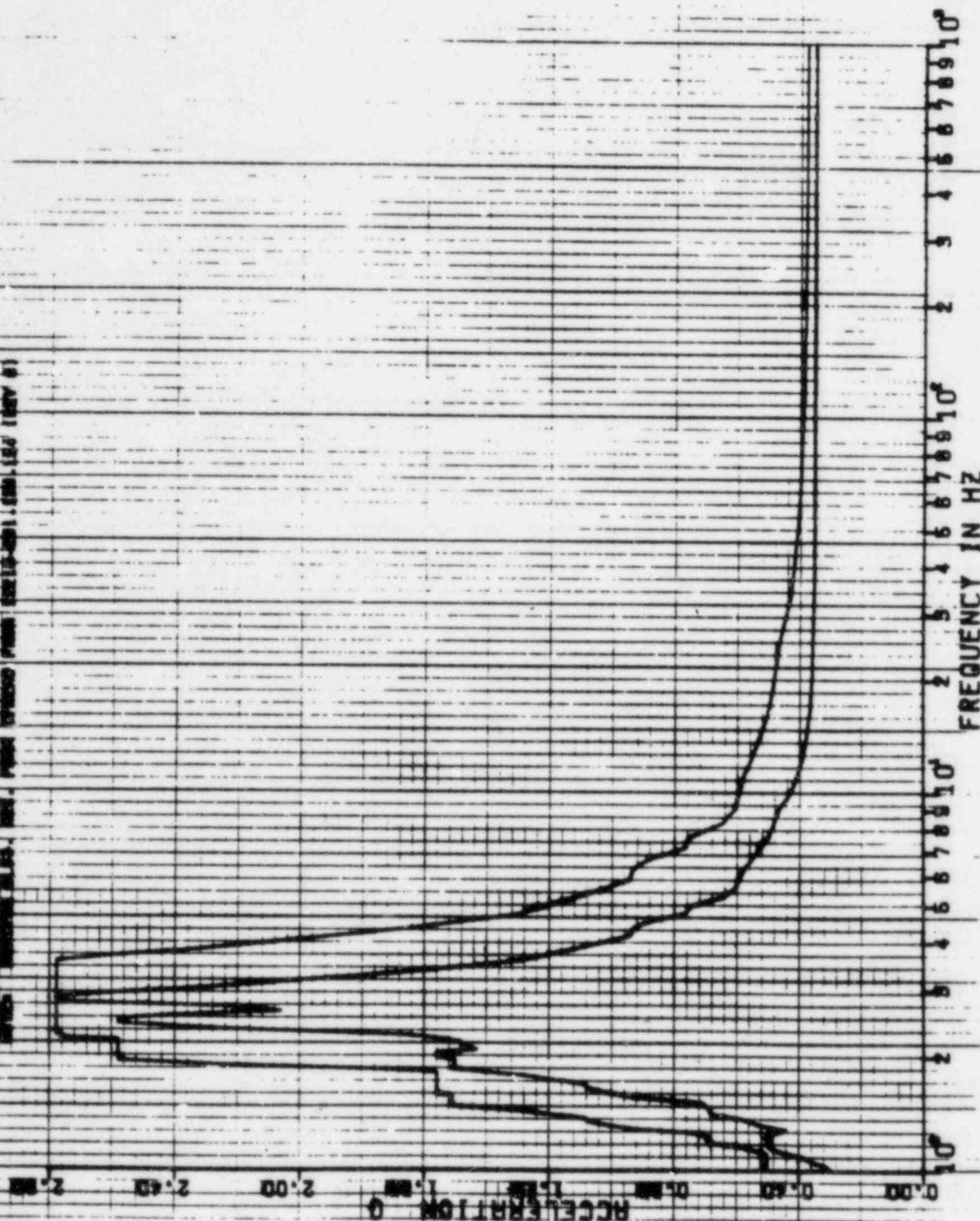
PEAK SPREAD = 20%, 25%

DISA CLAYE SET NO. 52

1.055E

VER DIRECTION

19 APR 1971 0000Z



12A

22 APR 1982

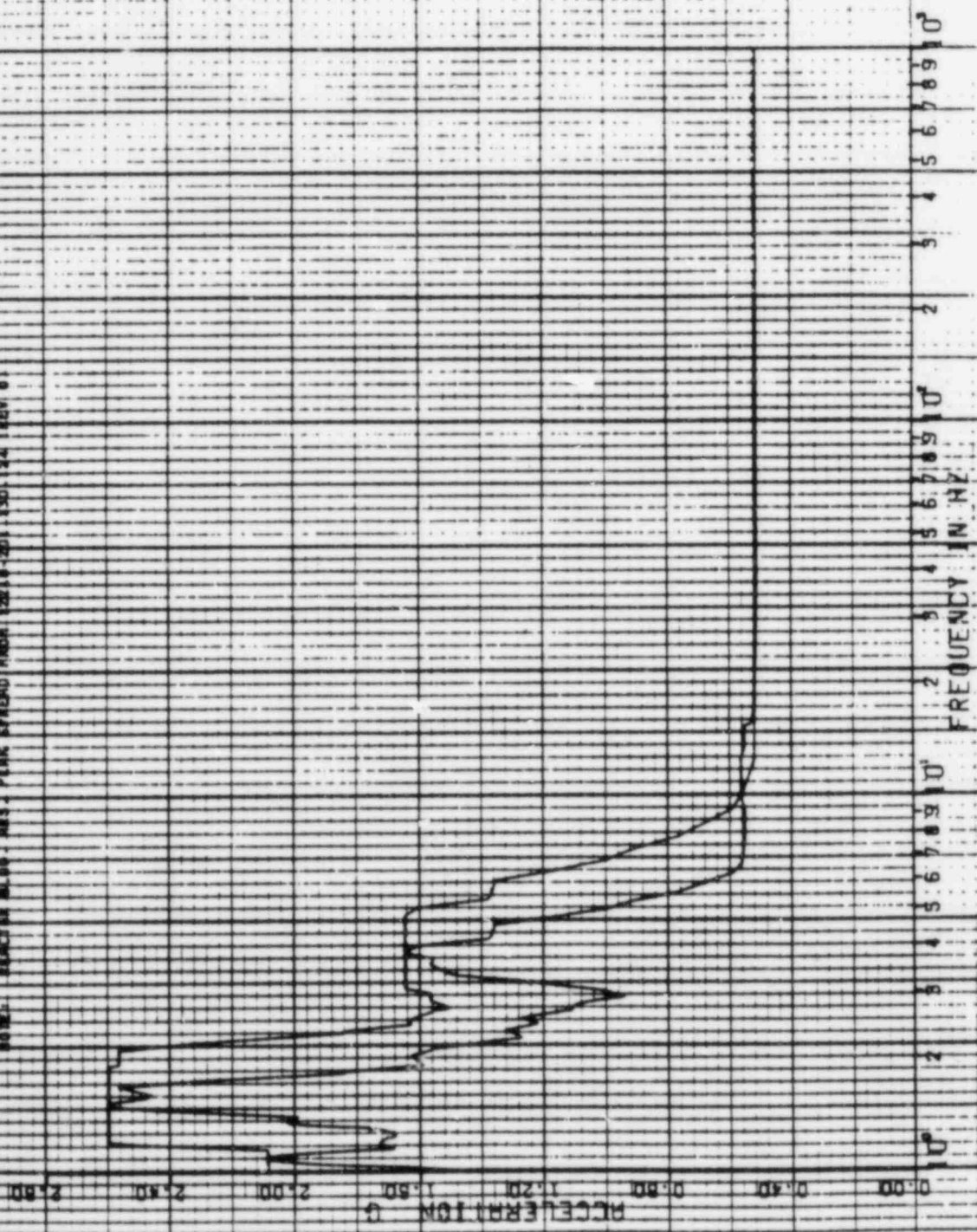
K-KAY

DAMPING VALUE = 0.010

INSPECTOR VER 01 LEV 07
 GOLF STATE UTILITIES-RBS UNIT - CALC 122.0 UNITS - 50E - 903 REV 0
 HAS OF REC - REACTOR BLOC - EL 185.00 - MASS 27 SE S MODEL - ORTWELL
 PEAK SPREAD 20% 125%
 SEE

DISK CURVE SET NO. 52
 .055E HDR DIRECTION

NOTE: REACTOR BLOC HAS PEAK SPREAD FROM (221.0-20) 130.14 185V 0



FREQUENCY IN HZ

ACCELERATION

435A

22 APR 1982

K. KAY

DAMPING VALUE = 0.010

PSPECTRA VER 01 LEV 07
 GULF STATE UT: LITTS-RBS UNIT 1-CALC 1210-NHCT-30E-1909 REV 01
 RES OF REC- REACTOR BLOC CL-105.00 PASS-27 SEIS MODEL-DRYWELL
 PEAK CORREL- 00Y-1952
 DISK CURVE SET NO. 52

VER DIRECTION

1.0 SSE

NOTE: PEAKS IN BLOC. RES. PEAKS IN BLOC. FROM (2210-30) (30) 14 100V 0

2.00

2.00

2.00

1.50

1.20

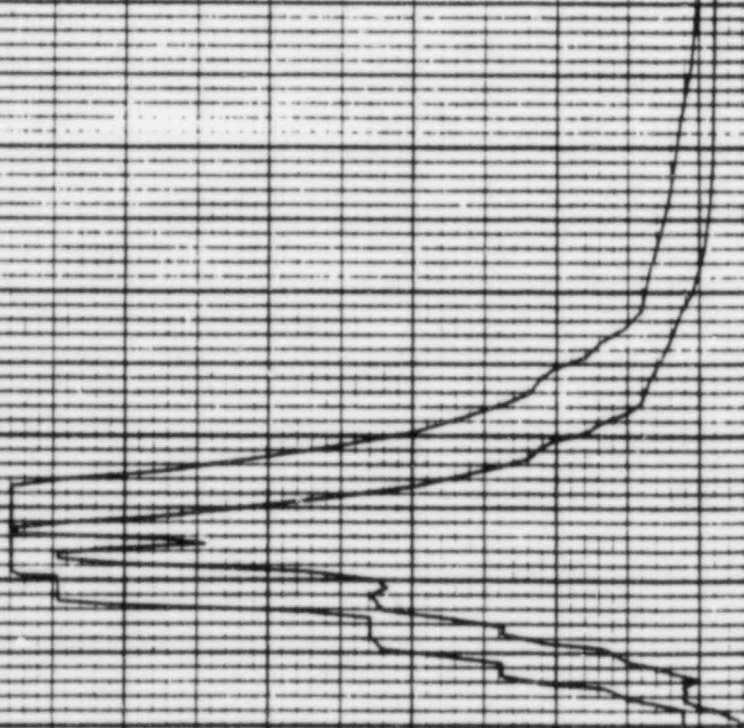
0.80

0.40

0.00

ACCELERATION G

FREQUENCY IN HZ



2000

22 APR 1982

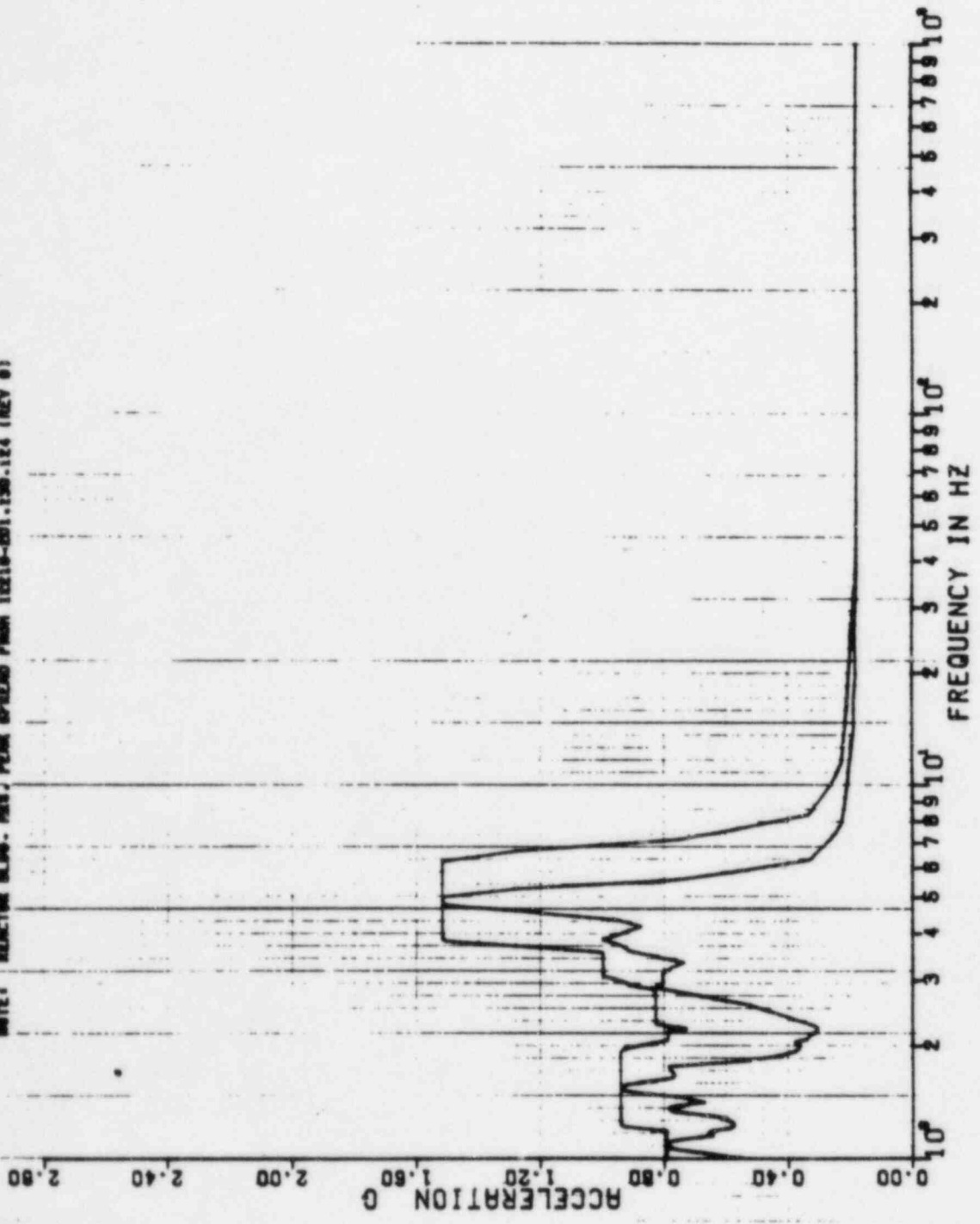
K.KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 07
GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NR(C)-8QE-1903 REV(0)
RBS OF ACC.-REACTOR BLDG. EL-113.46, MASS=29 SETS MODEL-RPV
PEAK SPREAD -20%+25%
OBE
DISK CURVE SET NO.55

0.5 SSE HOR DIRECTION

NOTE: REACTOR BLDG. HAS PEAK SPREAD FROM 12210-001.130-124 (REV 0)



PSPECTRA VER 01 LEV 07

OULF STATE UTILITIES-RDS UNIT 1-CALC12210-NH(C)-S02-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL=113.46, MASS=29 SEIS MODEL-RPV
 PEAK SPREAD -20Z.+25Z

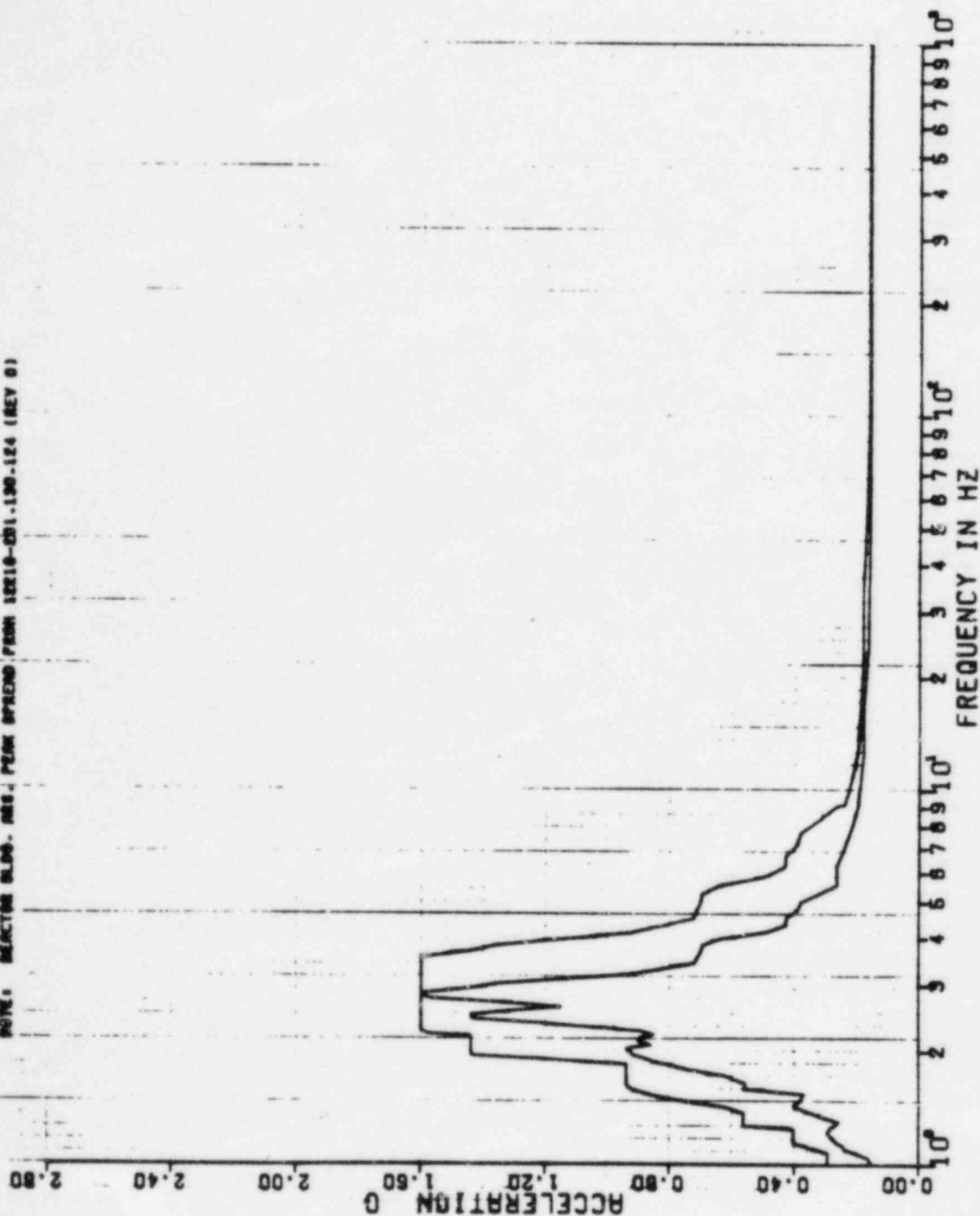
DISK CURVE SET NO.56

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTION BLDG. MASS, PEAK SPREAD, FROM 12510-051.130-124 (REV 0)



6554

8 FEB 1983

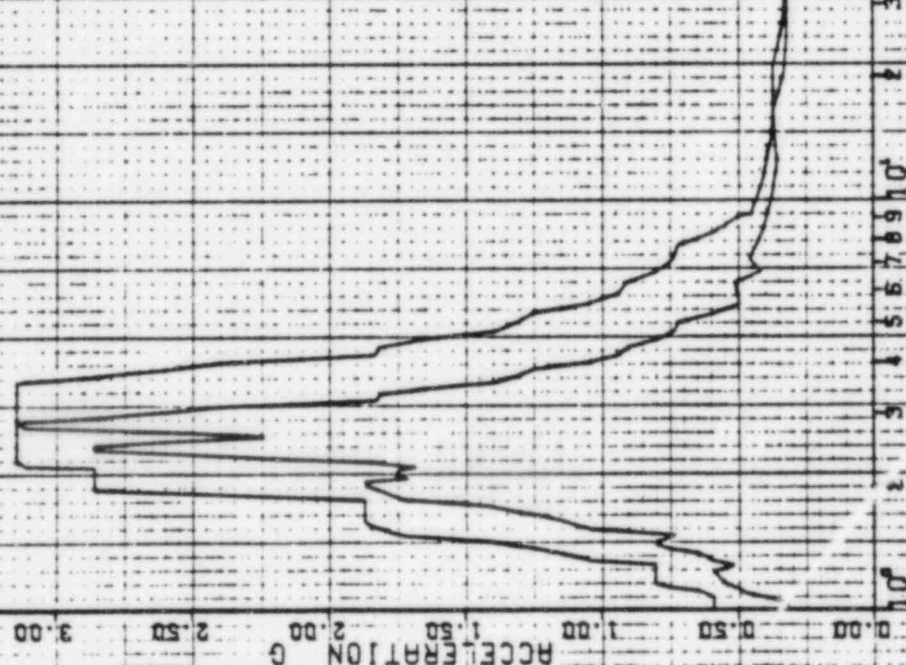
K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RGS
UNIT 1-CALC12210-NHIC1-50E-1903 REV11
RRS OF ACC.-REACTOR BLDG.-EL-113.46, MASS=29 5E16 MODEL-NPV
PEAK SPREAD -20% +25%
DISK CURVE SET NO.55

1.0 SSE VER DIRECTION

NOTE: REACTOR BLDG. RRS. PEAK SPREAD FROM 12210-001-130-124 (REV B)



22 APR 1982

31-A

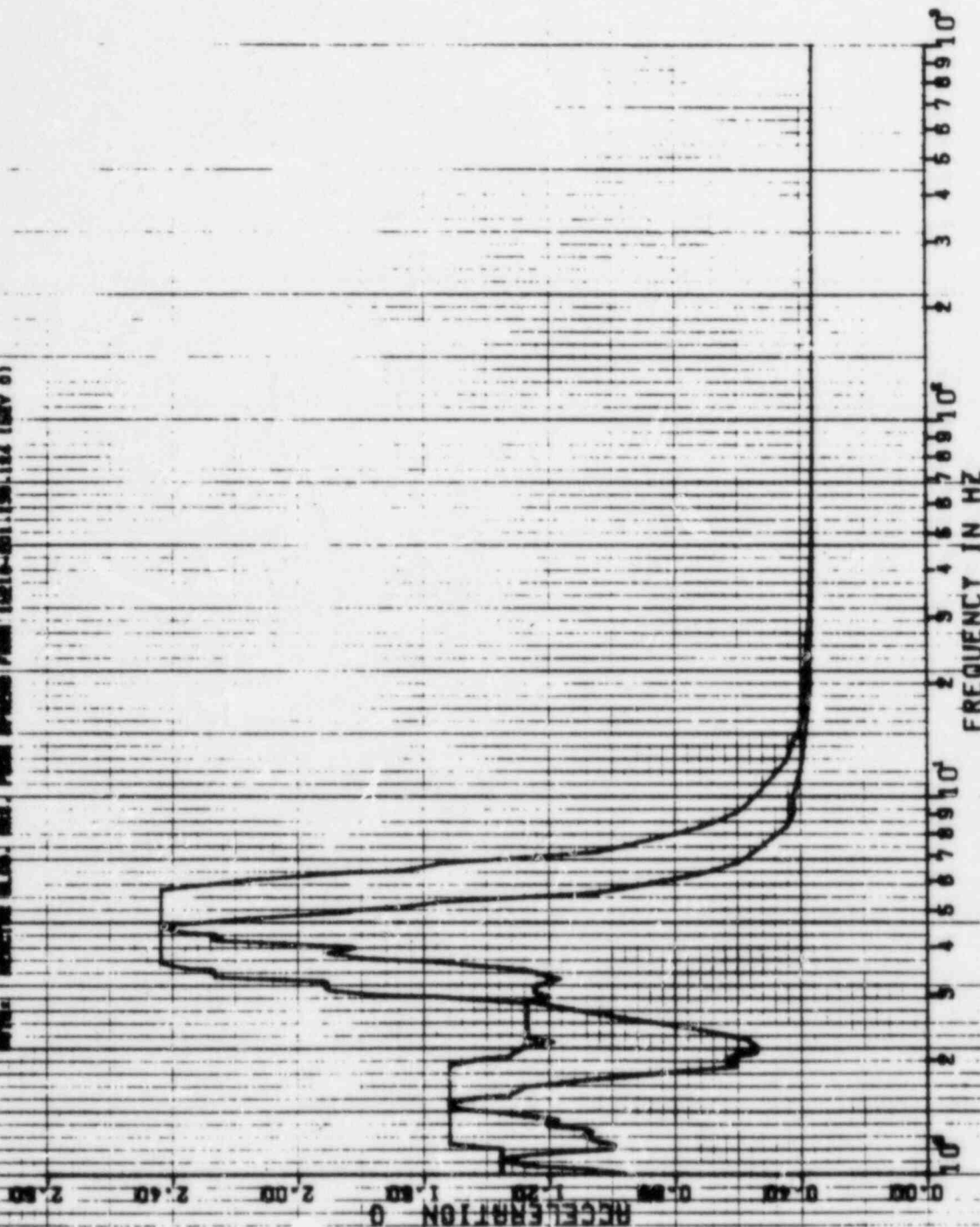
K.MAY

DAMPING VALUE = 0.090

PSPECTR VER 01 LEV 07
 DUL STATE UTILITIES-RBB UNIT 1-CALC12210-WAIC)-SOF-1903 REV(0)
 RRE OF ACC-REACTOR BLDG-EL-115.46.NA68-29 SE16 MODEL-RPV
 PERK R'NEED -202.625Z
 DTRK CURVE SET NO.58

1.0 SSE HDR DIRECTION

WAVE= REACTOR BLDG. RBB. FROM PRESSURE PUMP (2210-201) (20.164 165V 0)

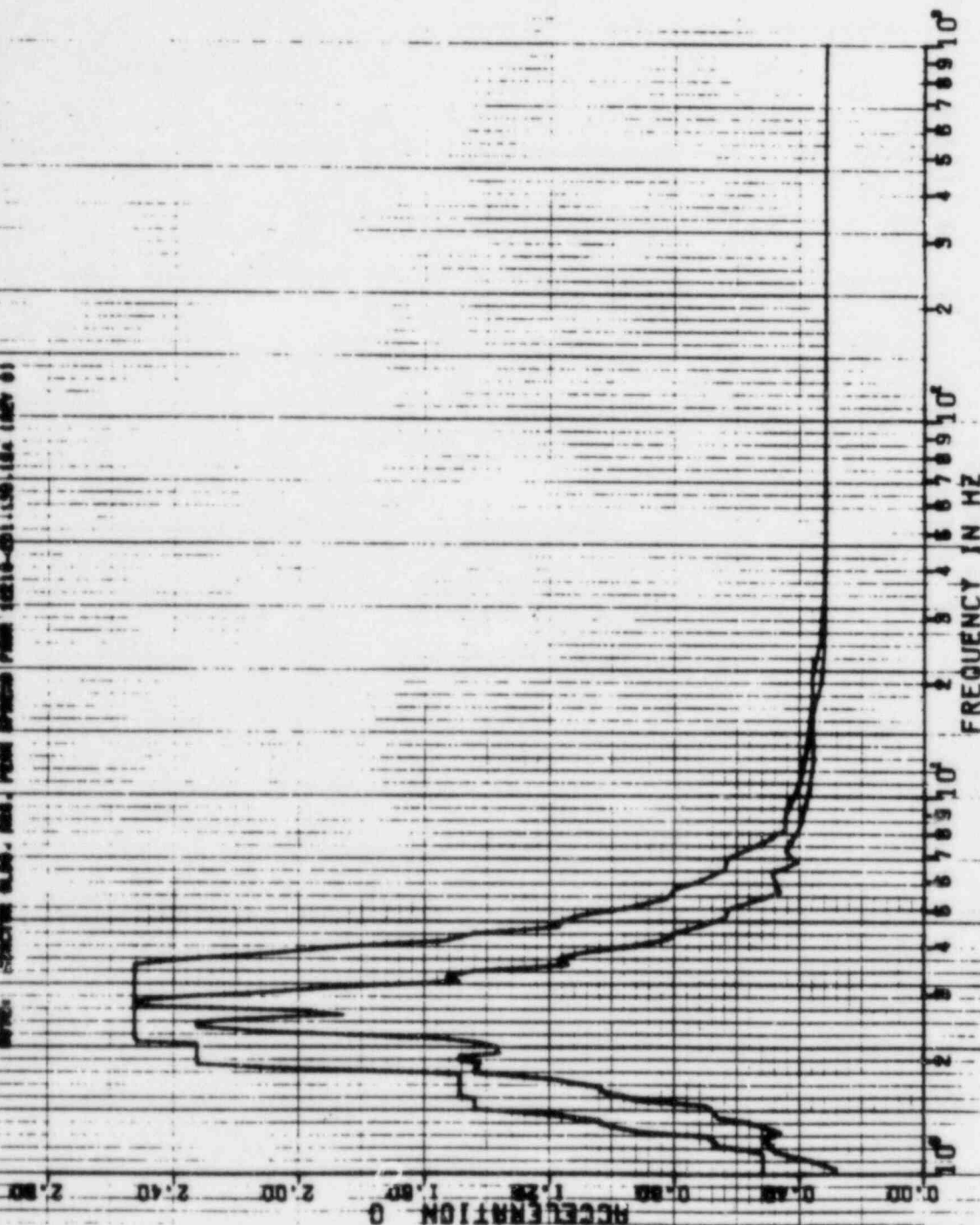


3. A

K. KAY

DAMPING VALUE = 0.050

SPECTRA VER 01 LEV 07
DULY STATE UTILITIES-RSS UNIT 1-CALC12210-AMC11-85E-1909 REV(0)
RMS OF ACC.-RECTOR. BLDG-EL-19.46, MASS-29 GEIS MODEL-RPV
PEAK SPREAD -207L+252L
DISK CURVE SET NO.55
1.0 85E
VER DIRECTION
RMS. C-SCALE SLAG, RMS. PEAK SPREAD RMS 102L-251L59,151 (REV 01)



150A

22 APR 1982

K-KRY

DAMPING VALUE = 0.040

PSPECTRA VER DI LEV DP
 CULP SPARE UTILITIES-RBS UNIT 1-CALC 12210-NMTCY-50E-1909 REV 0
 RMS OF ACCEL-REACTOR BLOC FL-118-16-MASS-29 SETS MODEL RPV
 PERK SPREAD 20K 25V
 S5E

DISK CURVE SET NO. 55

1 D 55E

HDR DIRECTION

NOTE: REACTOR BLOC HAS BEEN SPINDED FROM 12210-201 (NO 14 184V b)

ACCELERATION G

FREQUENCY IN HZ



PEPECTRA VER 01 LEV 07
 CULF STATE UTILITIES-RBS UNIV. CALIF. 12/10/81 (J-501-1903 REV 03)
 RES OF REC. REACTOR BLDG. FL-11B. MS. MASS. RD. SENS. MODEL. RPV
 PEAK SPREAD. 20V. 1.25V

DISK CURVE SET NO. 55 A.D. 55E VER. DIRECTION

NOTE: REACTION M.D. RES. PLAN SPREAD FROM (22.8-20.3) (50.24 INCH b)

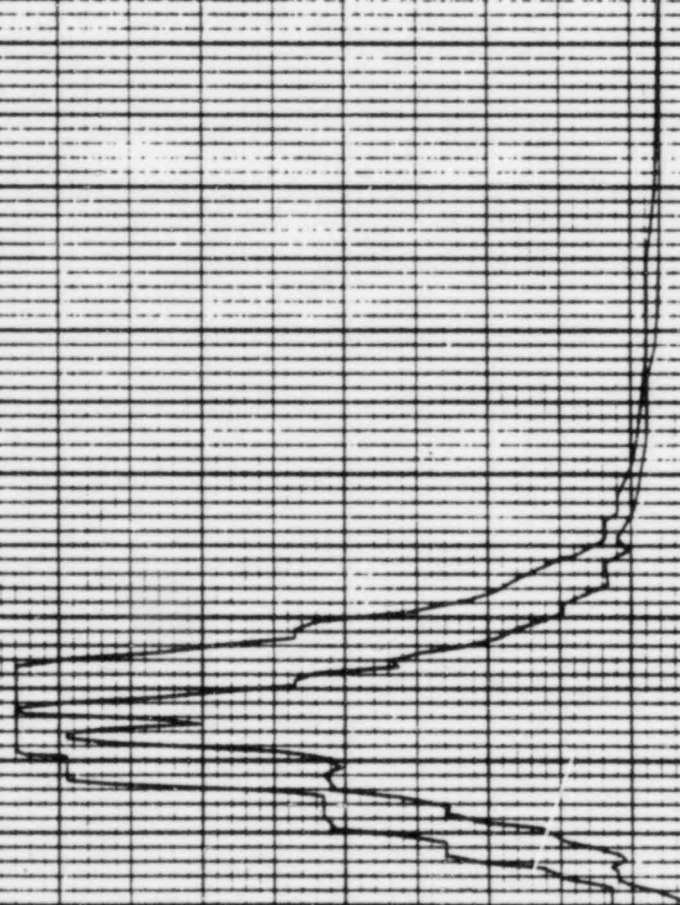
22 APR 1982

K-KRY

DAMPING VALUE = 0.040

ACCELERATION G

FREQUENCY IN. Hz



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-80E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL-162.57, MASS=30 SEIS MODEL-RPV
 PEAK SPREAD -20%+25%
 OBE

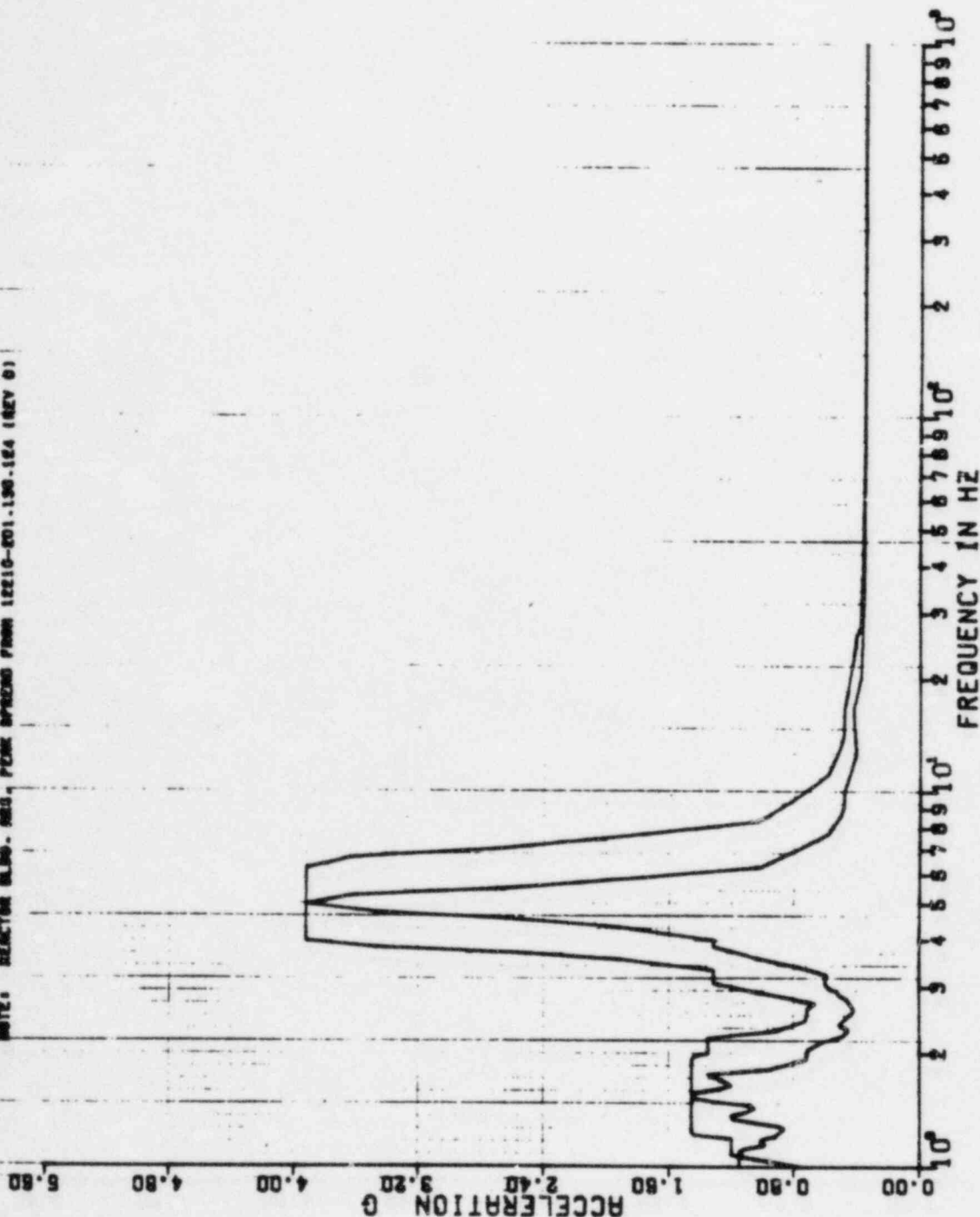
DISK CURVE SET NO.57

0.5 SSE

NOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. REG. PEAK SPREADS FROM 12210-201.190-124 (REV 0)



PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-MM(C)-59E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG. EL=162.57.MAGS=30 SEIS MODEL-RPV
 PEAK SPREAD -20%+25%
 OBE

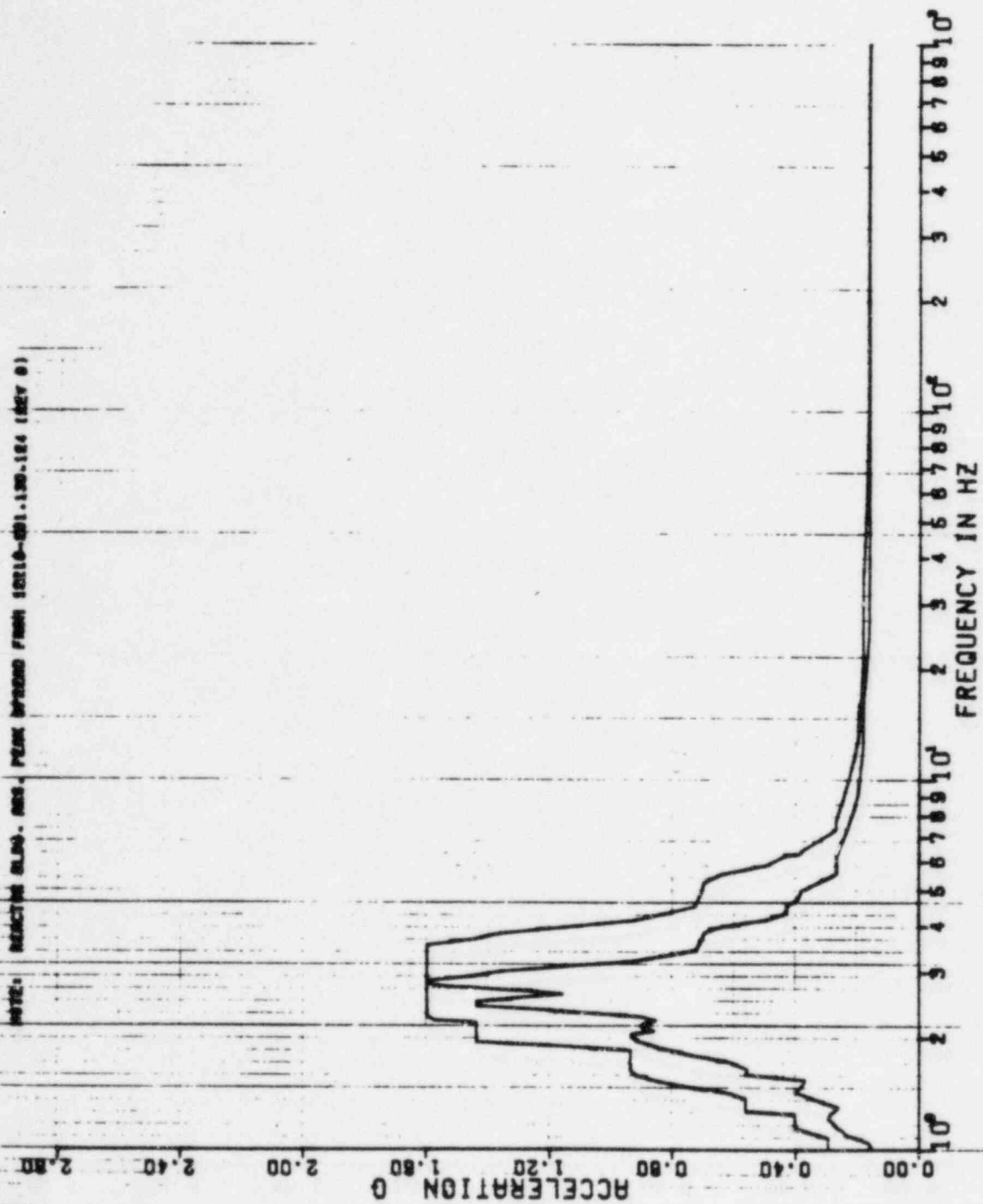
DISK CURVE SET 40.57

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RES. PEAK SPREAD FROM 10210-101.130-104 (REV 0)



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8 - 3 1963

K. MAY

DAMPING VALUE = 0.020

SPECTRA VER 01 LEV 08

GULF STATES UTILITIES-RBS UNIT 1-CALC12210-MMICJ-SDE-1903 REV(1)

RBS OF ACC.-REACTOR BLDG.-EL-162.57, MASS-90 SEIS MODEL-RPV

PEAK SPREAD -20% +25% 55E

DISK CURVE SET NO.58 1.0 55E HOR DIRECTION

NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-501.150.124 INCY D)

5.60

4.80

4.00

3.20

2.40

1.60

0.80

0.00

ACCELERATION G

FREQUENCY IN HZ

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SPECTRA VER 01 LEV 08

GULF STATES UTILITIES-NOS. UNIT 1-CALC12210-WHIC)-6DE-1903 REV11)
RNS OF ACC.-REACTOR BLDG.-CLC152-57-MR55-5D SE16 MODEL-1PW
LEAK SPREAD -202 +252 55E

RRS OF ACC.--REACTOR BLDG., ELE=152.57, MASS=90 SE16 MODEL-KPV

| PEAK | SPREAD | -20Z | +25Z |
|------|--------|------|------|
| 1 | 100 | 100 | 100 |
| 2 | 100 | 100 | 100 |
| 3 | 100 | 100 | 100 |
| 4 | 100 | 100 | 100 |
| 5 | 100 | 100 | 100 |
| 6 | 100 | 100 | 100 |
| 7 | 100 | 100 | 100 |
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| 97 | 100 | | |

| DISK | CURVE | SET | NO. 58 |
|------|-------|-----|--------|
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| 72 | 72 | 72 | 72 |
| 73 | 73 | 73 | 73 |
| 74 | 74 | 74 | 74 |
| 75 | 75 | 75 | 75 |
| 76 | 76 | 76 | 76 |
| 77 | 77 | 77 | 77 |
| 78 | 78 | 78 | 78 |
| 79 | 79 | 79 | 79 |
| 80 | 80 | 80 | 80 |
| 81 | 81 | 81 | 81 |
| 82 | 82 | 82 | 82 |
| 83 | 83 | 83 | 83 |
| 84 | 84 | 84 | 84 |
| 85 | 85 | 85 | 85 |
| 86 | 86 | 86 | 86 |
| 87 | 87 | 87 | 87 |
| 88 | 88 | 88 | 88 |
| 89 | 89 | 89 | 89 |
| 90 | 90 | 90 | 90 |
| 91 | 91 | 91 | 91 |
| 92 | 92 | 92 | 92 |
| 93 | 93 | 93 | 93 |
| 94 | 94 | 94 | 94 |
| 95 | 95 | 95 | 95 |
| 96 | 96 | 96 | 96 |
| 97 | 97 | 97 | 97 |
| 98 | 98 | 98 | 98 |
| 99 | 99 | 99 | 99 |
| 100 | 100 | 100 | 100 |

4.0 65E

VER DIRECTION

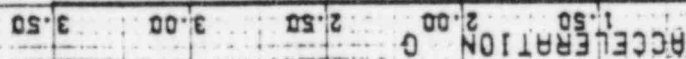
NOTE: REACTOR BLDG. HAS BEEN IMPROVED FROM 2210-001.150 124 125 D)

0 FEB 1968

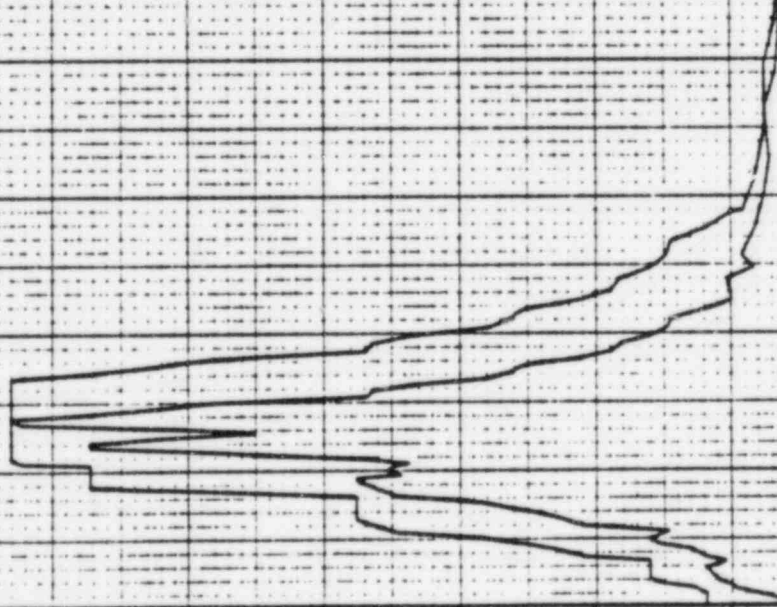
K. KAY

DAMPING VALUE = 0.020

657A



FREQUENCY IN HZ



22 APR 1962

3

D

K-KAY

DAMPING VALUE = 0.030

PROJECTOR VER 01 LEV 07

GULF STATE UTILITIES-RSS UNIT 1-CALC12210-AMIC1-50E-1903 REV(0)

NBS OF ACC-REACTOR BLDG. EL-162.57, MASS-30 SEIS MODEL-RPV

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

SEE

1.0 SEE

NOR DIRECTION

NOTE: REACTOR BLDG. NBS. MASS BLDG. PUSH 12210-031.130.124 (REV 6)

DISK CURVE SET NO. 59

PERK SPREAD - 20% - 25%

ACCELERATION

FREQUENCY IN HZ

0.00 1.00 2.00 3.00 4.00 5.00 6.00

10 20 30 40 50 60 70 80 90 100

0.00 1.00 2.00 3.00 4.00 5.00 6.00

10 20 30 40 50 60 70 80 90 100

PSPECTRA VER 01 LEV 07
CULT STATE UTILITIES-RBS UNIT - CRLC12210-NR113-SOE-1903-REV 03
ERS OF ACC-REACTOR BLOOD-EL-162-57, MASS=80 SEIS MODEL-RPV
PEAK SPREAD 0.00V, 0.25V
SEE
DISK CURVE SET NO-58
I-D 55E HOR DIRECTION
NOTE: REACTOR BLOOD, HRS, PEAK SPREAD (MON 2218-201 130.14 14EV 6)

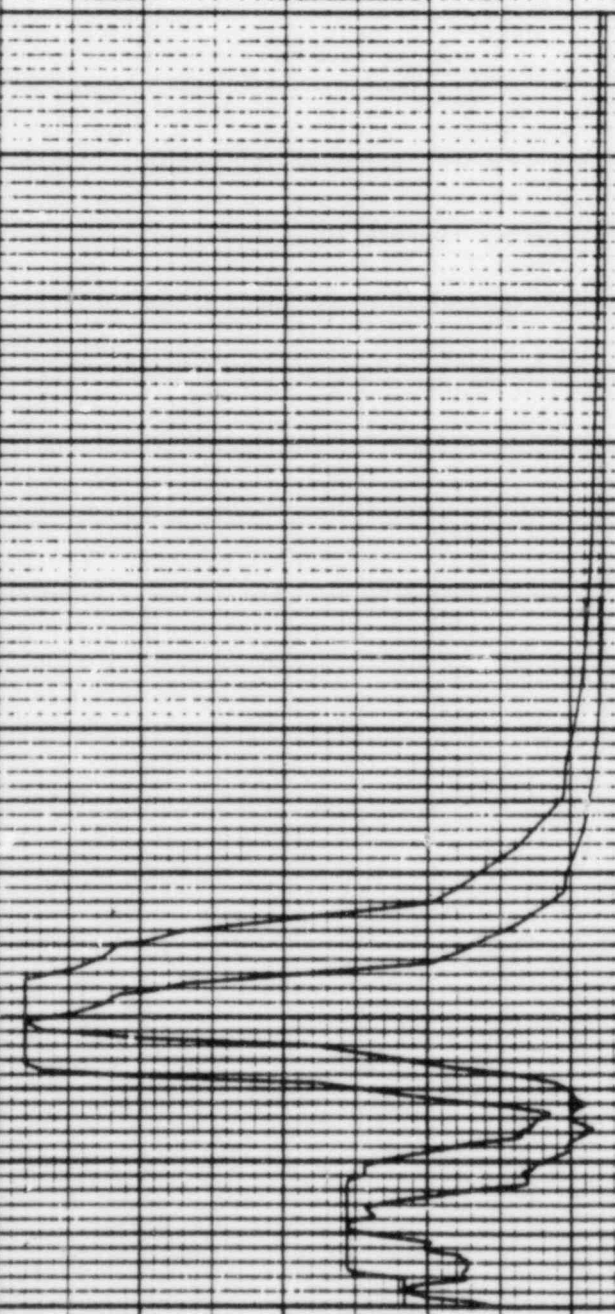
22 APR 1982

KRY

DAMPING VALUE = 0.000

ACCELERATION G
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00

FREQUENCY IN HZ
10⁰ 2 3 4 5 6 7 8 9 10¹



PERECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC 12/10/81-50E-1903 REV (0)
RBS OF ACC. REACTOR BLOC. EL-169.67, MASS 90 SE'S MODE 1, RPY
PEAK SPREAD 1.207, 1.557

DISK CURVE SET NO. 58 1.0.55E VER DIREC. 2DN

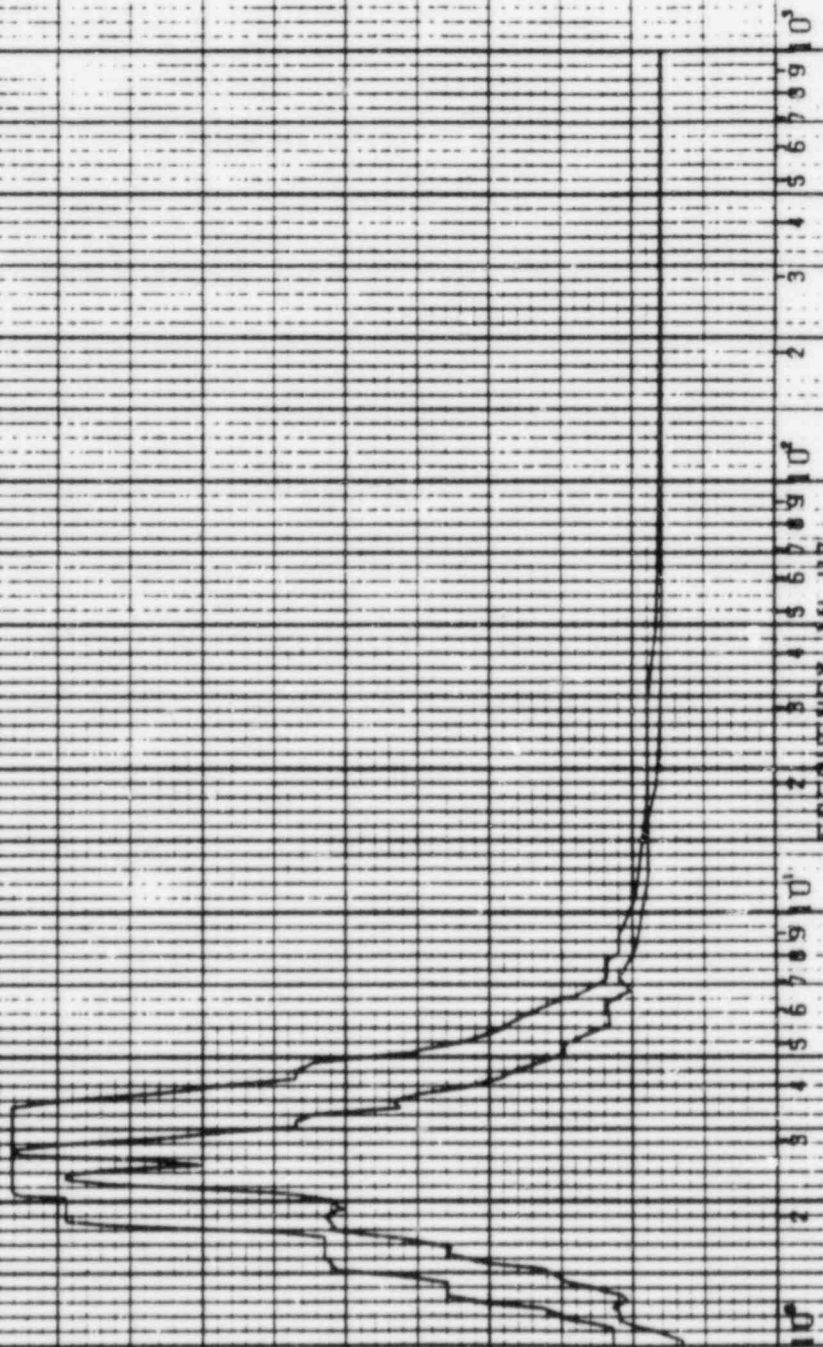
NOTE: REACTION ALSO HAS PEAK SPREAD FROM 12210-201.1301.44 (REV 0)

22 APR 1982

K KAY

DRIFTING VALUE = 0.000

ACCELERATION 0 0.50 1.00 1.50 2.00 2.50



10^0 10^1 10^2 10^3
FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

OULF STATE UTILITIES-R88 UNIT 1-CALC12210-NR1C1-50E-1903 REV(0)
 RRS OF ACC.-REACTOR BLDG.EL-117.63.MASS-91 SE16 MODEL-APV
 PEAK SPREAD -20%+25Z

DISK CURVE SET NO.59

0.5 SSE

HOR DIRECTION

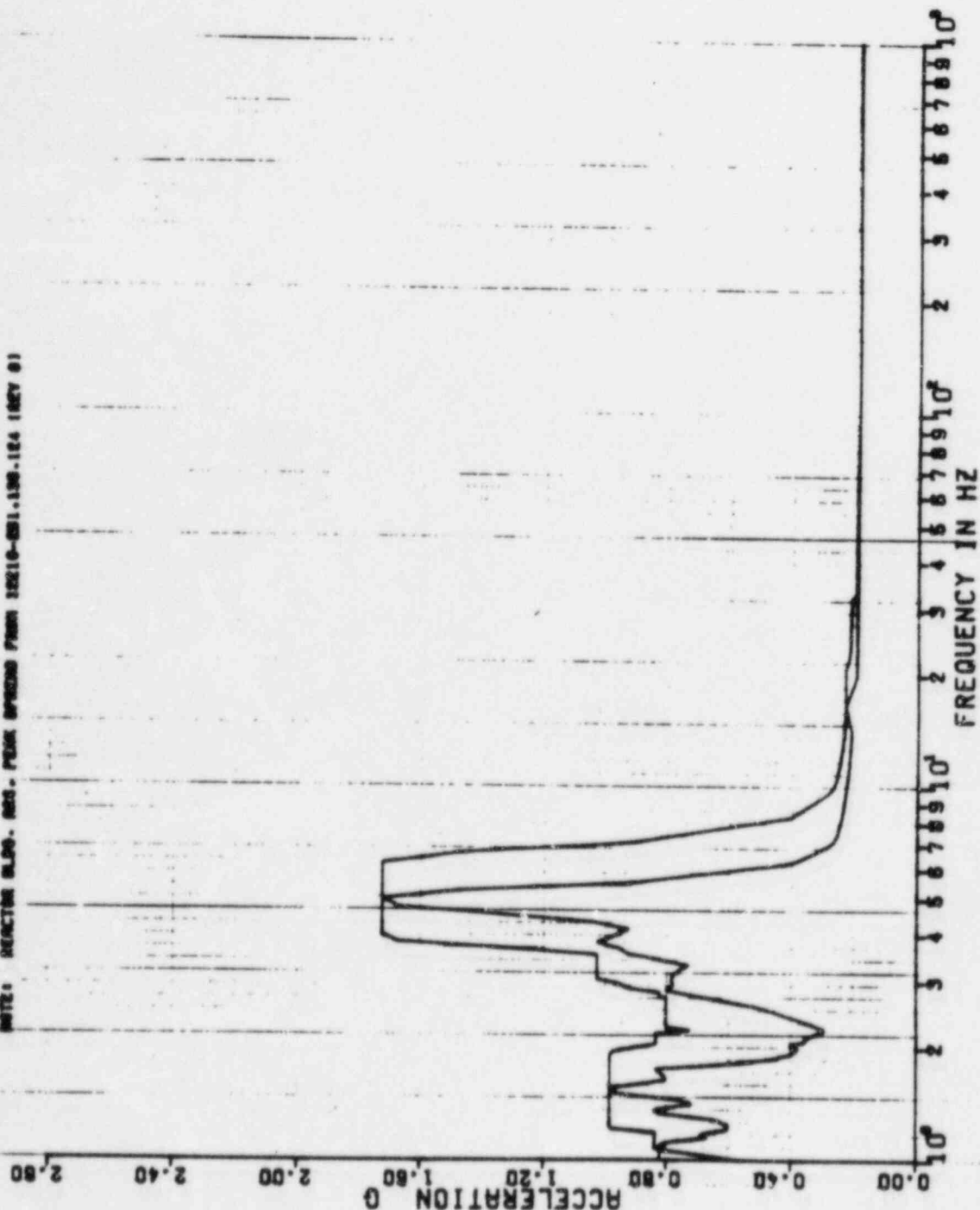
NOTE: REACTOR BLDG. ACC. PEAK SPREAD FROM 12210-501.130-124 (REV 6)

22 APR 1982

24

K.KAY

DAMPING VALUE = 0.020



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MH(C)-SDE-1909 REV(0)
 RRS OF ACC.-REACTOR BLDG-EL=117.63, MASS=31 6E18 MODEL-RPV
 PEAK SPREAD -20Z,+25Z
 OBE

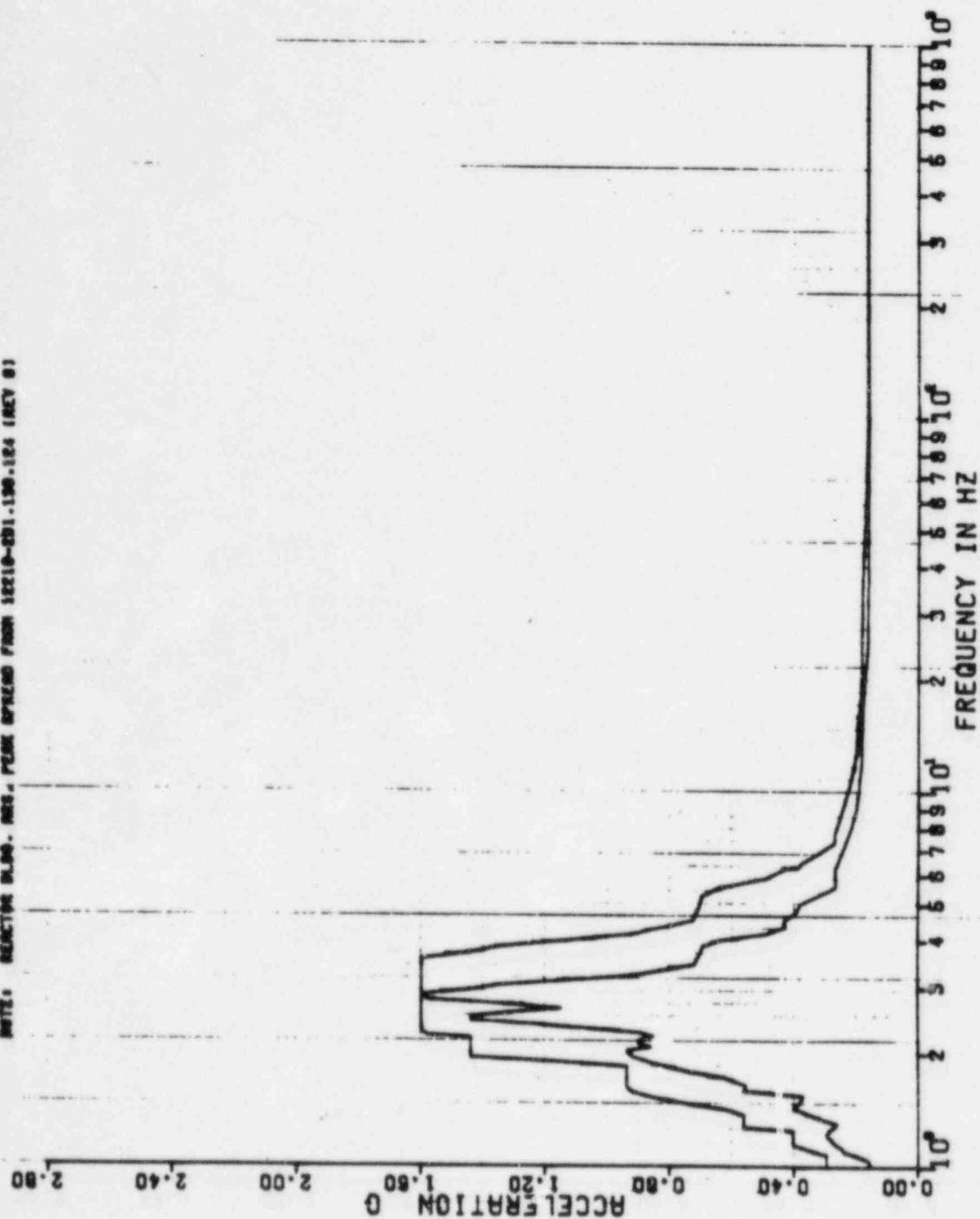
22 APR 1982

K.KAY

DAMPING VALUE = 0.020

DISK CURVE SET NO.59 0.5 SSE VER DIRECTION

NOTE: REACTOR BLDG. MASS, PEAK SPREAD FROM 12210-231.150-124 (REV 0)



65PA

6 FEB 1985

K. KRY

DAMPING VALUE = 0.020

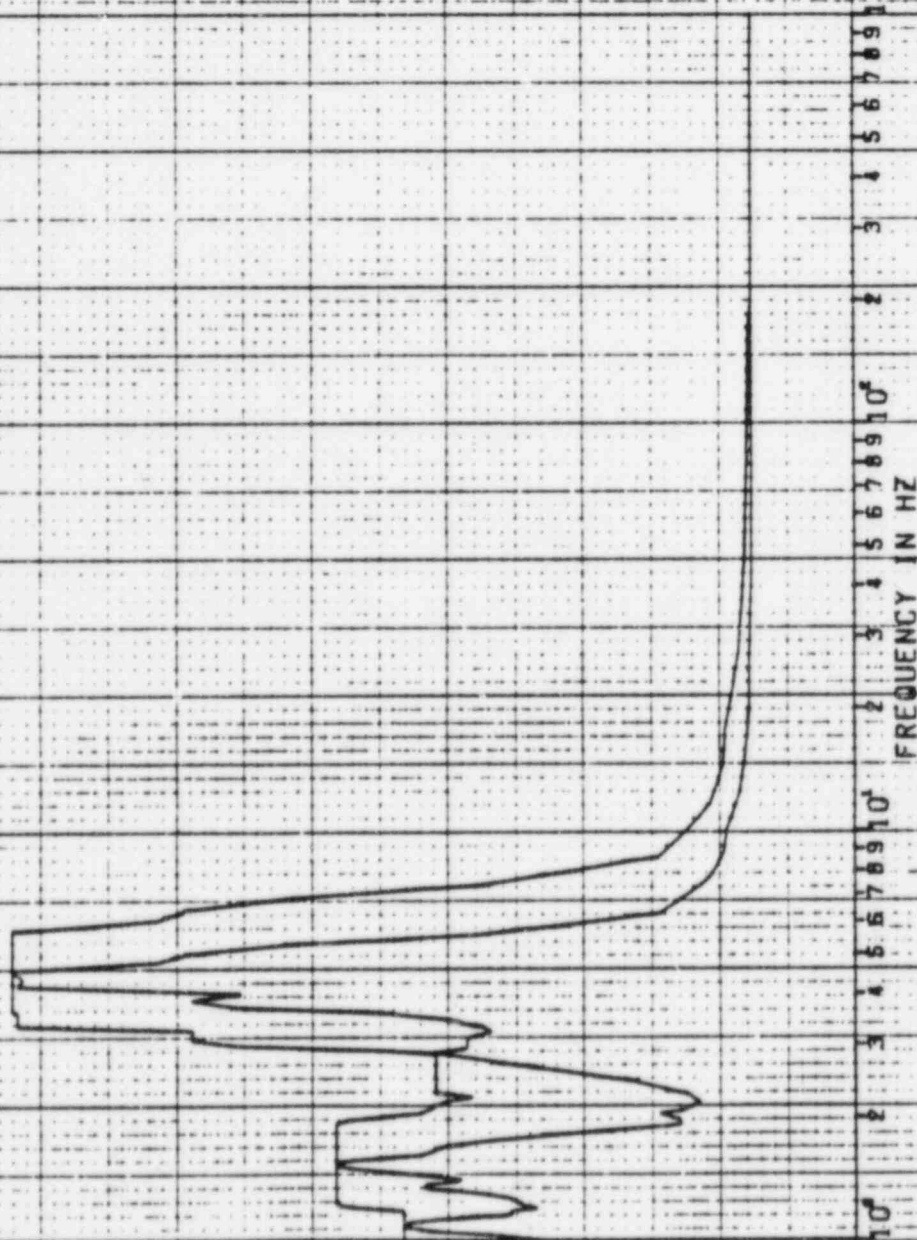
PSPECTRA VER 01 LEV 08
GULF STATES UTILITIES-RBS UNIT 1-CALC(12210-NR(C)-SDE-1903 REV11)
RBS OF ACC--REACTOR BLDG--EL=117.63, MASS=31 5E16 MODEL-RPV(LINT)
PEAK SPREAD -20Z +25Z

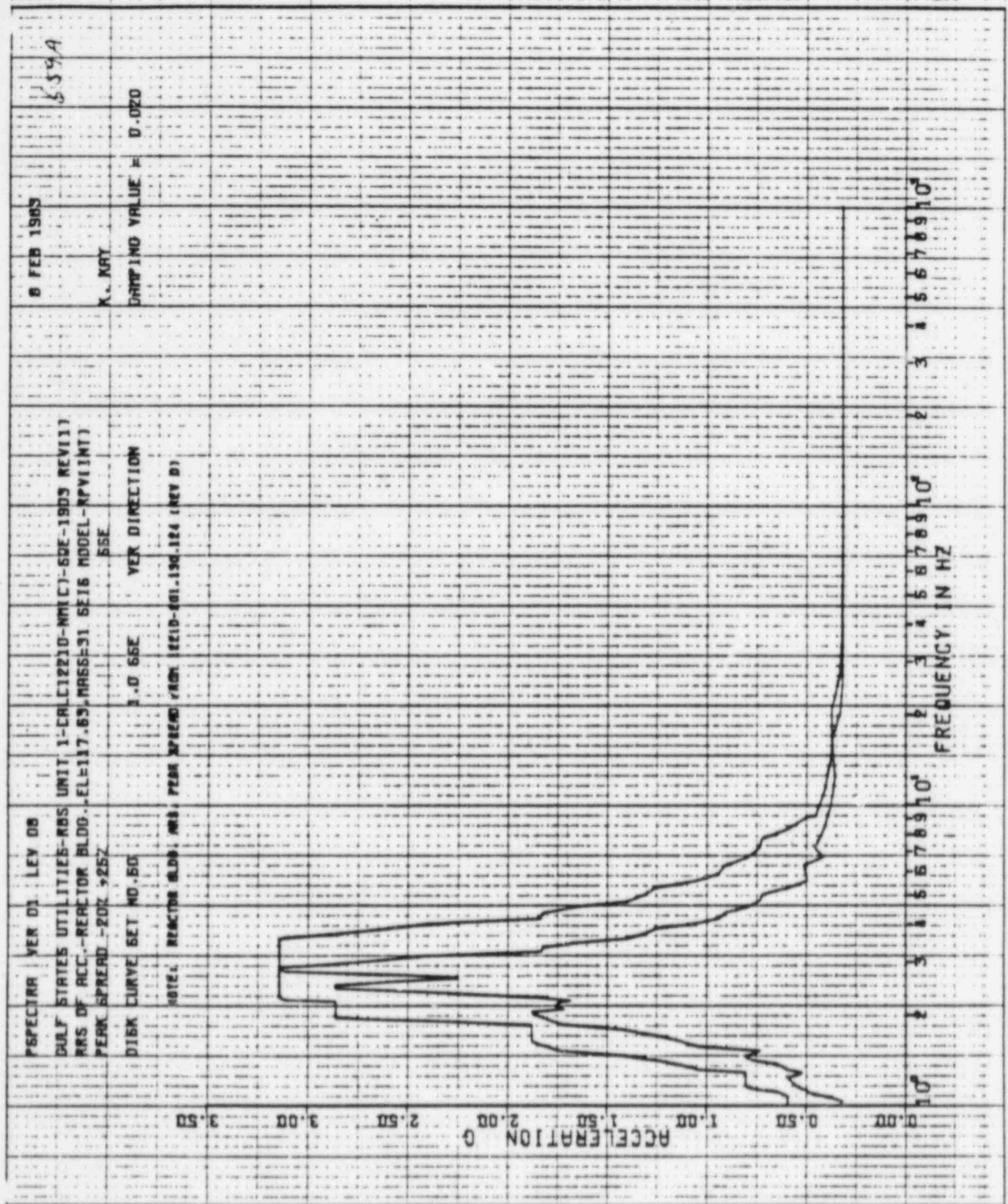
DISK CURVE SET NO.60
1.0 55E NOR DIRECTION

NOTE: REACTOR BLDG, RBS PEAK SPREAD FROM 12210-601.130-184 1REV 01

ACCELERATION

FREQUENCY IN HZ





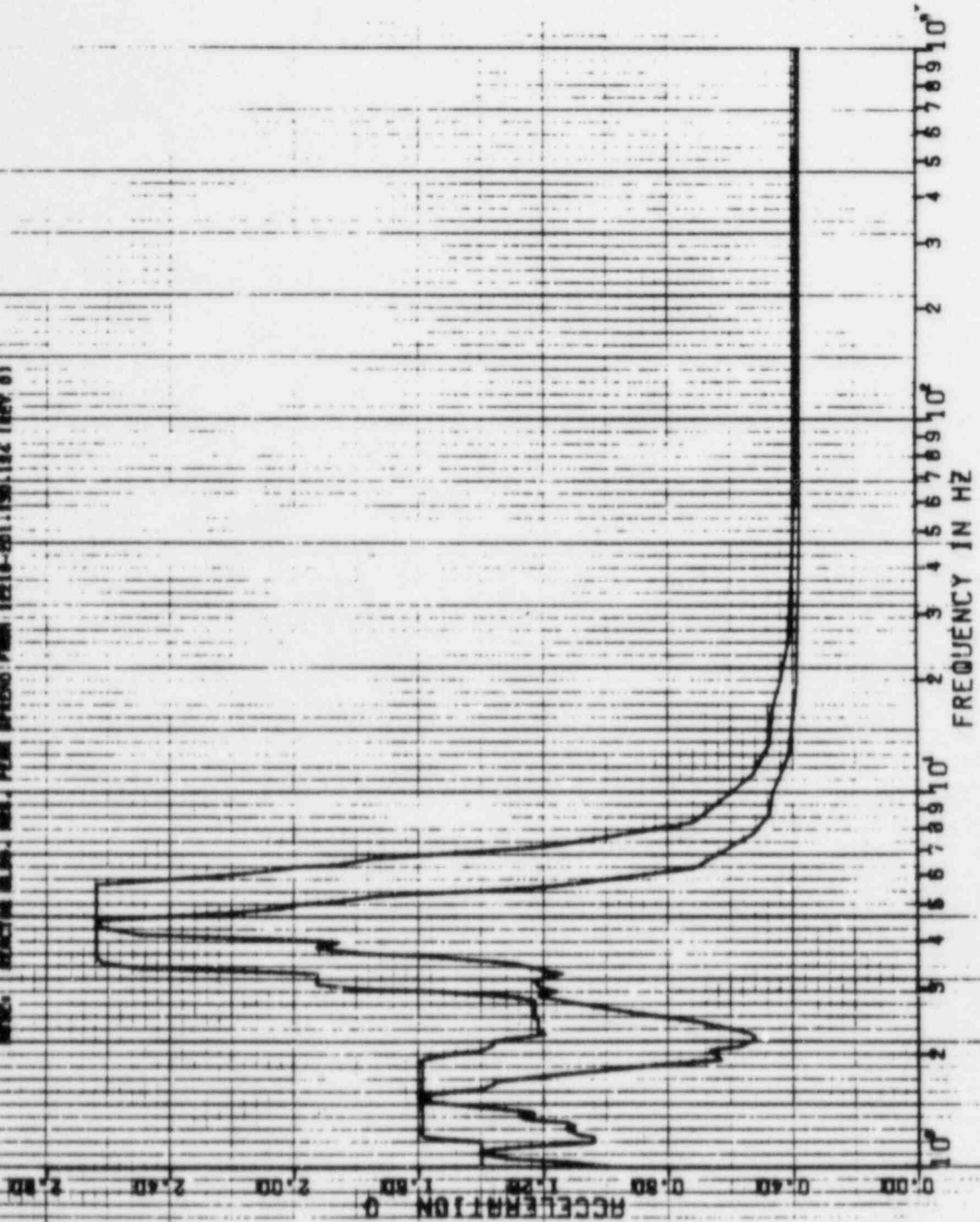
22 APR 1982

3.5.1A

K-KAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-WHIC1-SOE-1903 REV 01
 RMS OF ACC. REACTOR BLDG-EL-117.63 MASS=31 SEIS MODEL-RPV
 PEEK SPREAD=20% .25%
 DISK CURVE SET NO.60
 1.0 SSE HDR DIRECTION
 RMS REACTOR BLDG. MASS. PEAK SPREAD PWR (2210-251.154 INEV. 01)



395A

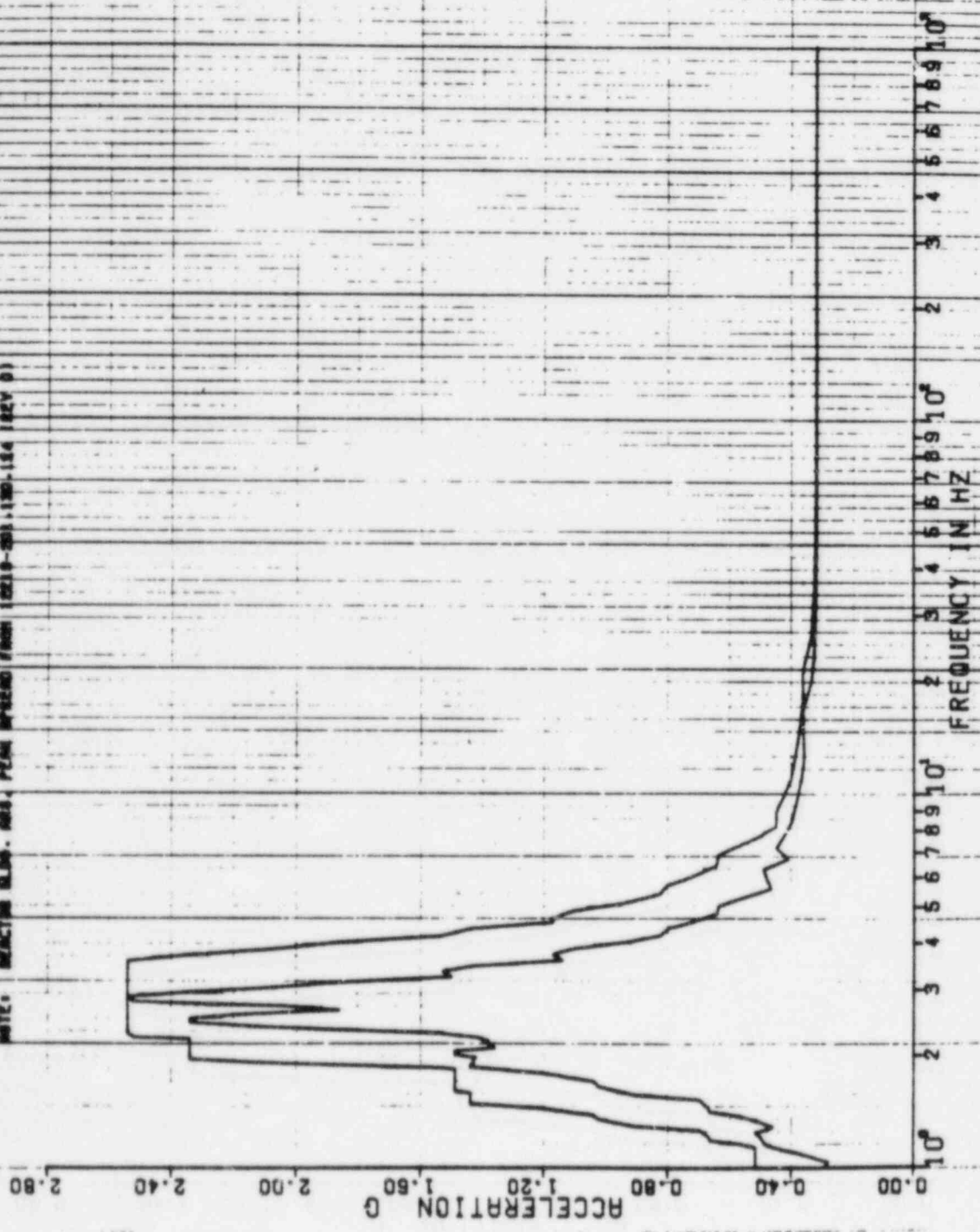
22 APR 1982

K-MAY

DAMPING VALUE = 0.050

PSPECTRA VER 01 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC12210-MM(C)-SSE-1903 REV(0)
 RRG OF ACC.-REACTOR BLDG-EL=117.69.MASS=33 SEIS MODEL-RPV
 PERK SPREAD -201.25X SSE
 DISK CURVE SET NO.50 VER DIRECTION
 1.0 SSE

NOTE: REACTOR BLDG. 008. PERK SPREAD FROM 10210-201.120-154 182V 0)



PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-WBS UNIT 1-CALC 12210 UNIT 1-SOE 1903 REV 01
 RRS OF ACC.-REACTOR BLOC CL=117.65, MASS=31 SETS MODEL-RPY
 PERK SPREAD=2021.05%
 DISK CURVE SET NO.50

DISK CURVE SET NO.50

1.0 SSE

VER DIRECTION

NOTE: REACTOR BLOC- RRS. PERK SPREAD FROM (2210-20) TO 124 (REV 01)

K-KAY

DAMPING VALUE = 0.010

82 APR 1982

7-1/4

2.500

2.400

2.300

ACCELERATION

G

1.800

1.700

0.600

0.500

0.400

10

2

5

4

5

6

7

8

9

10

10

2

3

4

5

6

7

8

9

10

FREQUENCY IN HZ

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-6QE-1909 REV(0)

RRS OF ACC.-REACTOR BLDG.EL=133.07.MASS=92 SE16 MODEL-RPV

PEAK SPREAD -20%,+25%

OBE

K.KAY

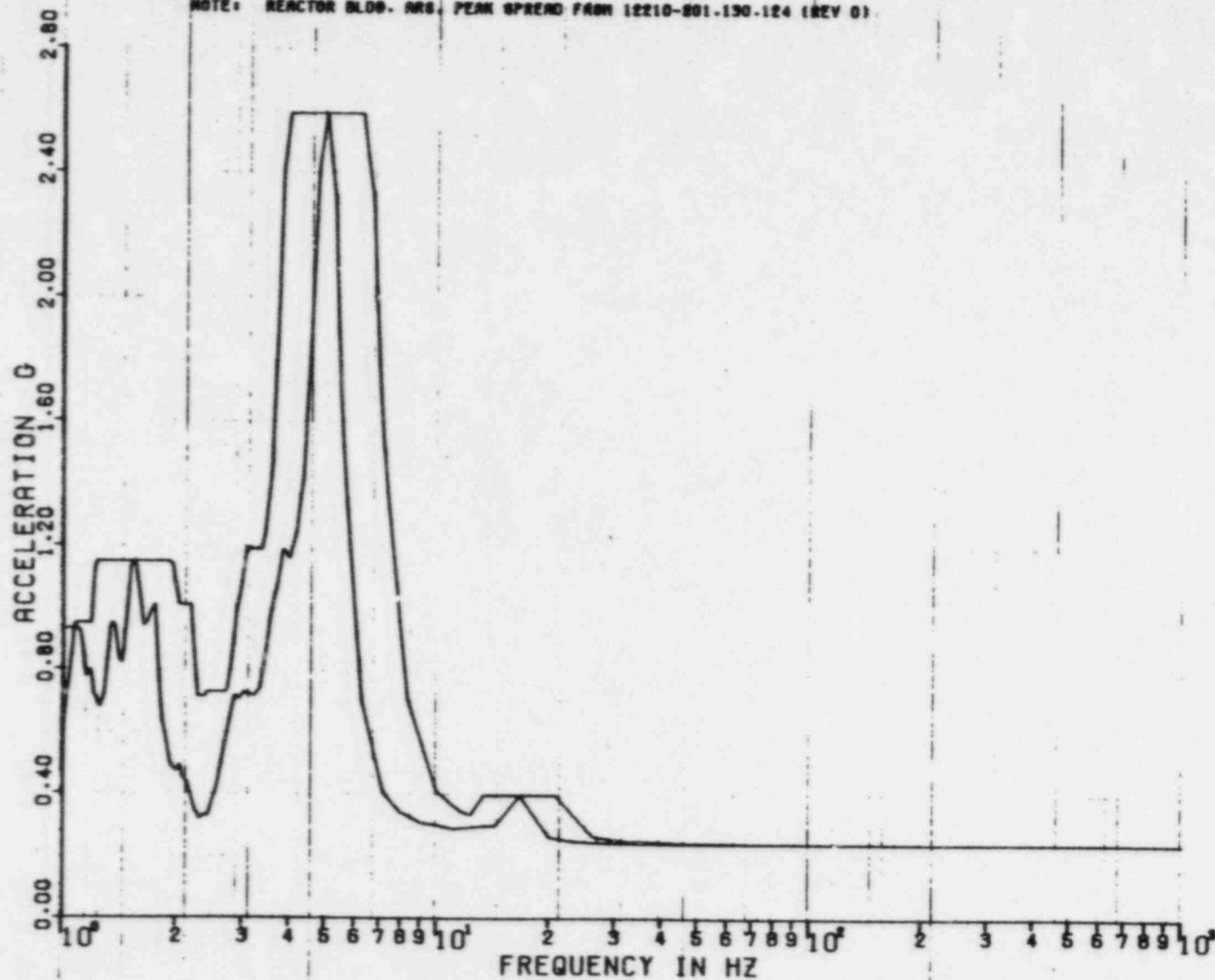
DISK CURVE SET NO.61

0.5 SSE

KOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RRS PEAK SPREAD FROM 12210-801-130-124 (REV 0)



REF 100

P6PECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RB6 UNIT 1-CALC12210-NM(C)-SQE-1909 REV(0)

RRS OF ACC.-REACTOR BLDG. EL=139.07, MASS=92 SEIS MODEL-RPV

PEAK SPREAD -20%, +25%

OBE

K.KAY

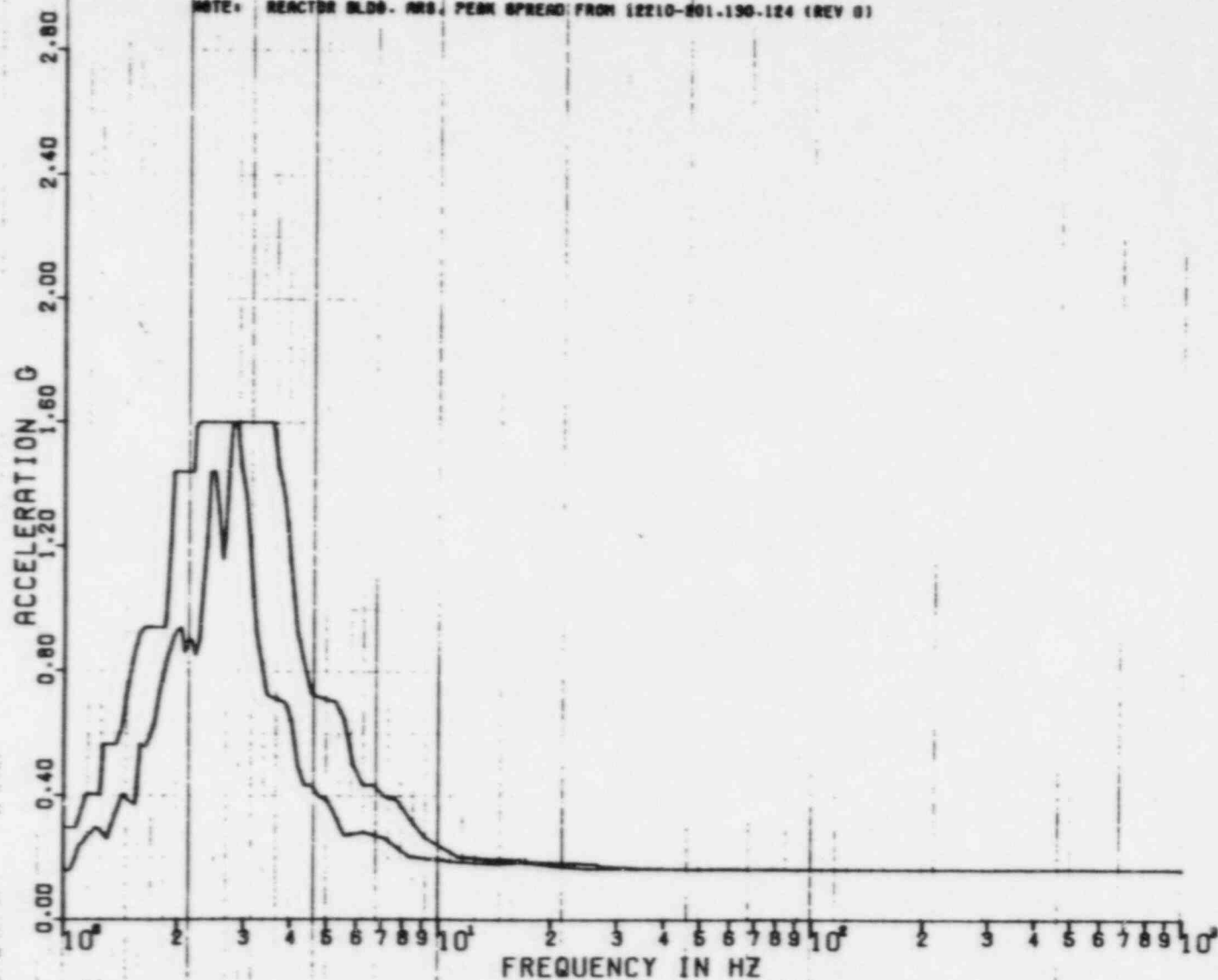
DISK CURVE SET NO.61

D.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. ARR. PEAK SPREAD FROM 12210-201.130-124 (REV 0)



REF 100

66-A

8 FEB 1963

M. KAY

DAMPING VALUE = 0.020

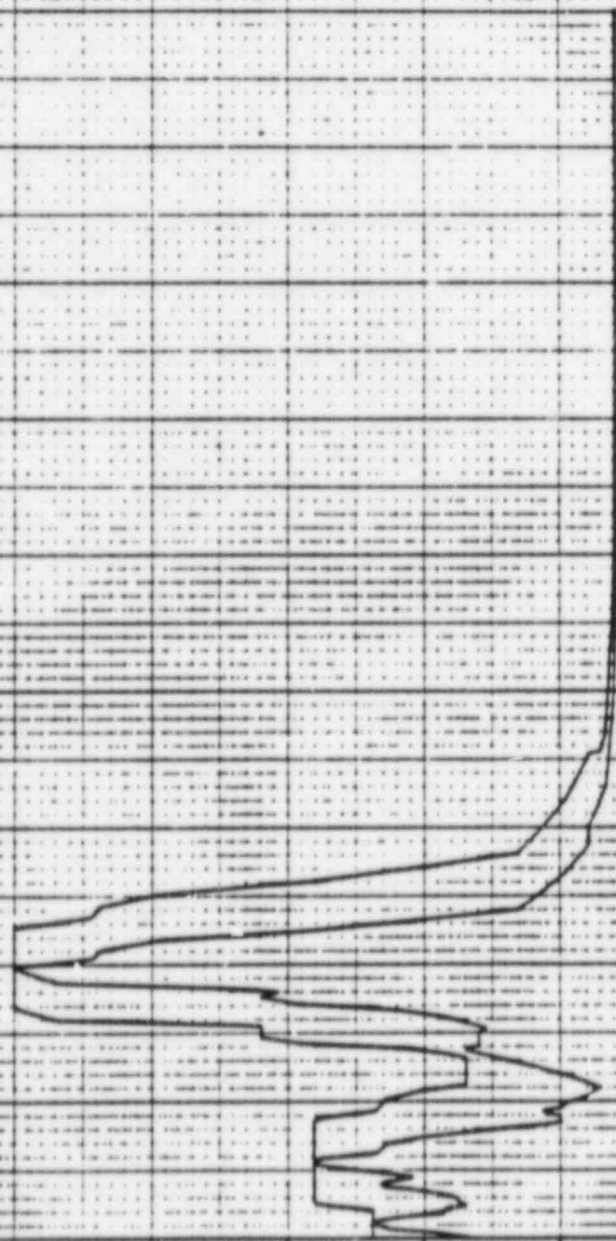
PSPECTRA VER 01 LEV 08
 GULF STATES UTILITIES-RBS UNIT 1-CALC12210-WNIC7-SDE-1903 REV11)
 RKS OF ACC.-REACTOR BLDG.-EL-159-07-MR55-32 SET6 MODEL-RPV(LINT)
 PERK SPREAD -20Z +25Z

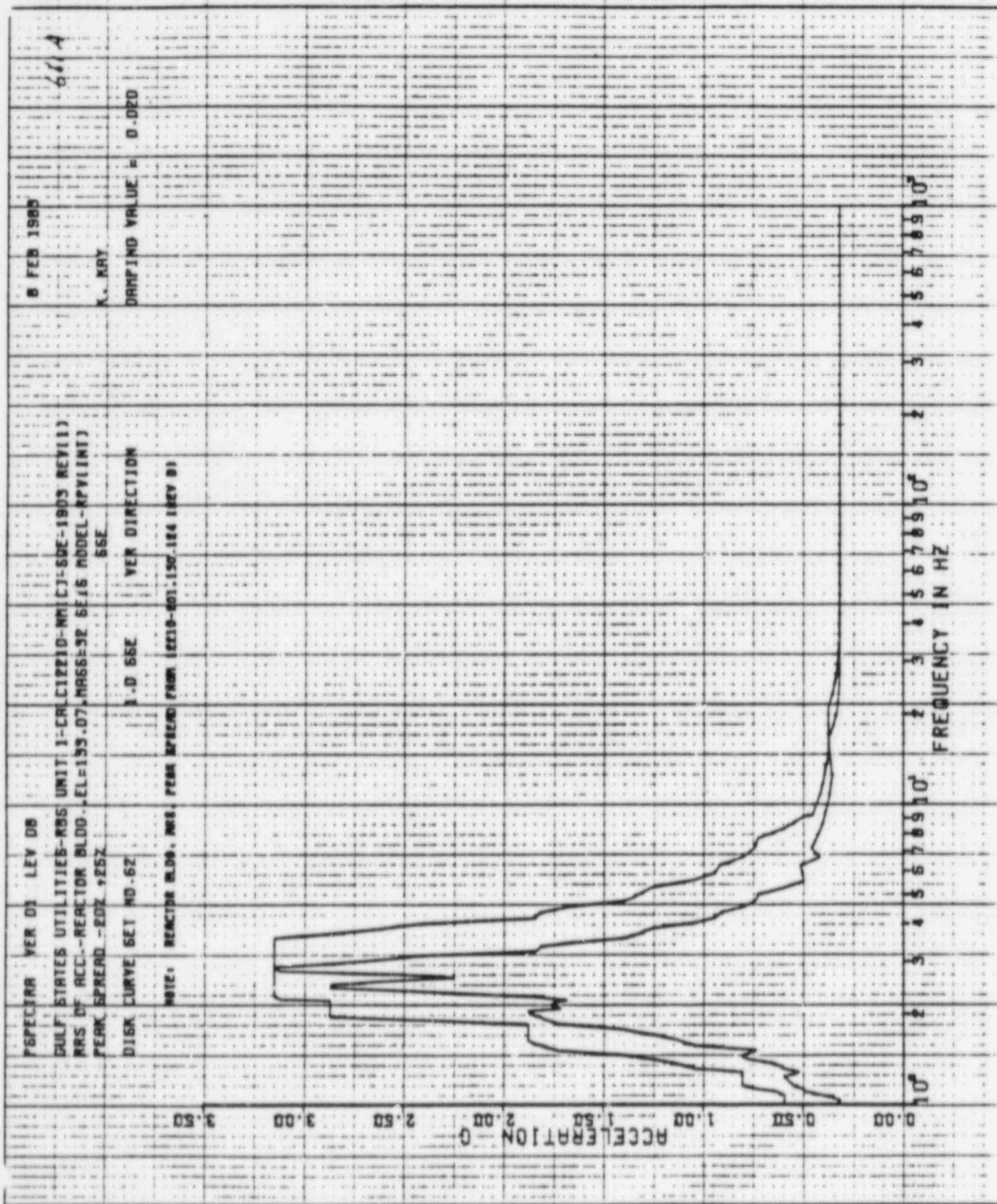
DISK CURVE SET NO.52
 1.0 SEE
 MOR DIRECTION
 55E

NOTE: REACTION BLDG. AND PERK SPREAD FROM 12210-501-150-124 18CV 01

ACCELERATION

FREQUENCY IN HZ





PSPELFR VER 05 LEV 07

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-MH(C)-SDE-1903 REV(0)
 RRS OF ACC--RECTOR BLDG. EL-139.07.MASS=92 SEIS MODEL-RPV
 PERK SPREAD -202L+25K

DISK CURVE SET NO.62

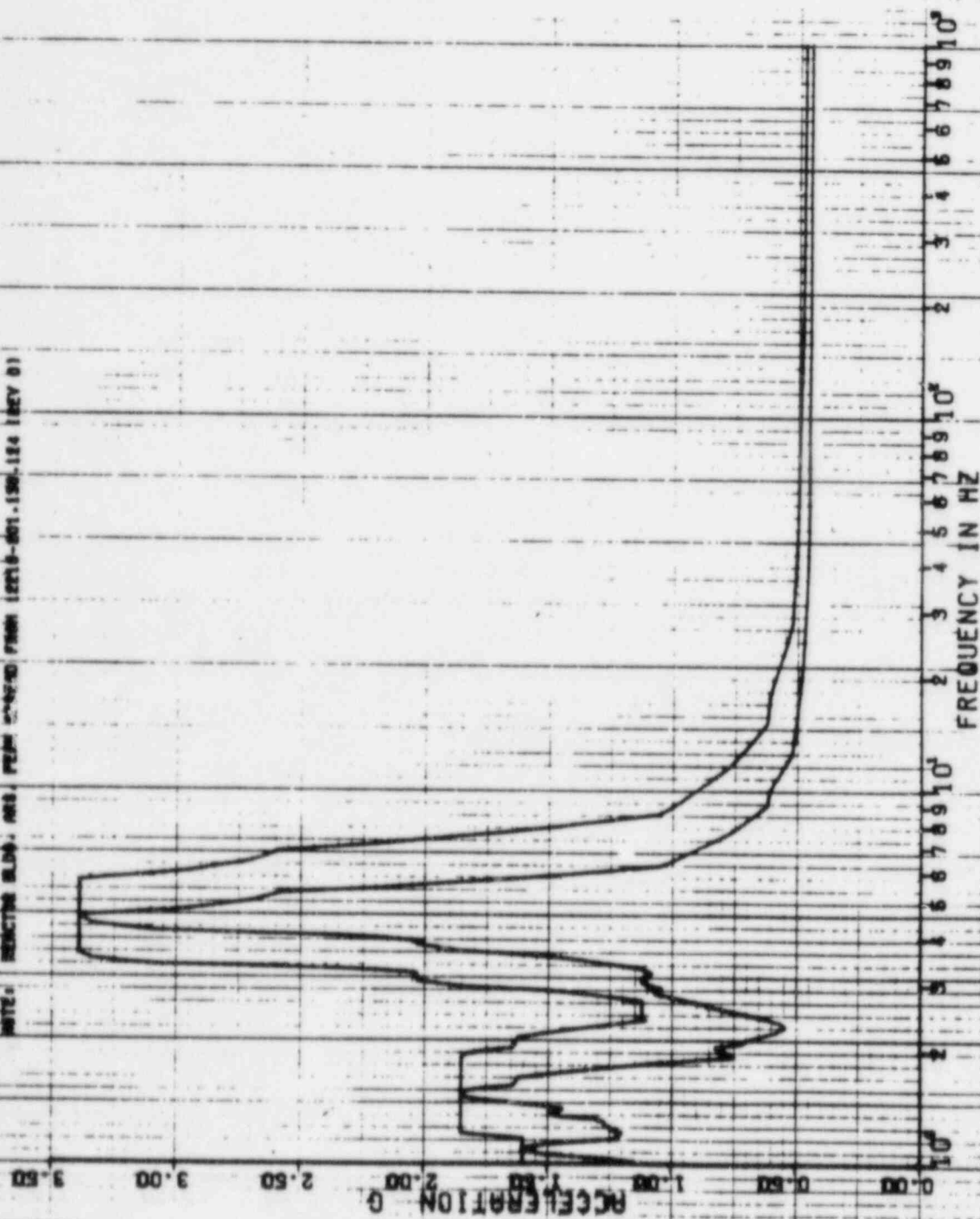
1.0 SSE HOR DIRECTION

NOTE: RECTOR BLDG. MASS. PERK SPREAD FROM 12210-001.139.184 (REV 0)

22 APR 1982

K.KAY

DAMPING VALUE = 0.050



22 APR 1982

3.7.4

K.KAY

DAMPING VALUE = 0.050

PEPETERA VER D1 LEV D7

DULF STAGE UTILITIES-R06 UNIT 1-CALC121210-MHIC1-50E-1903 REV(0)

RMS OF REC.-RECTORI BLDO-EL=159.07-MASS=92 SEIS MODEL-RPV

PERK SPREAD -202.4-252

DISK CURVE SET NO.82

NOTE: REACTION BLDO. MSB. PEAK SPREAD FROM 12110-001.136-124 (REV 8)

1.0 SSE

VER DIRECTION

2.00

2.40

2.00

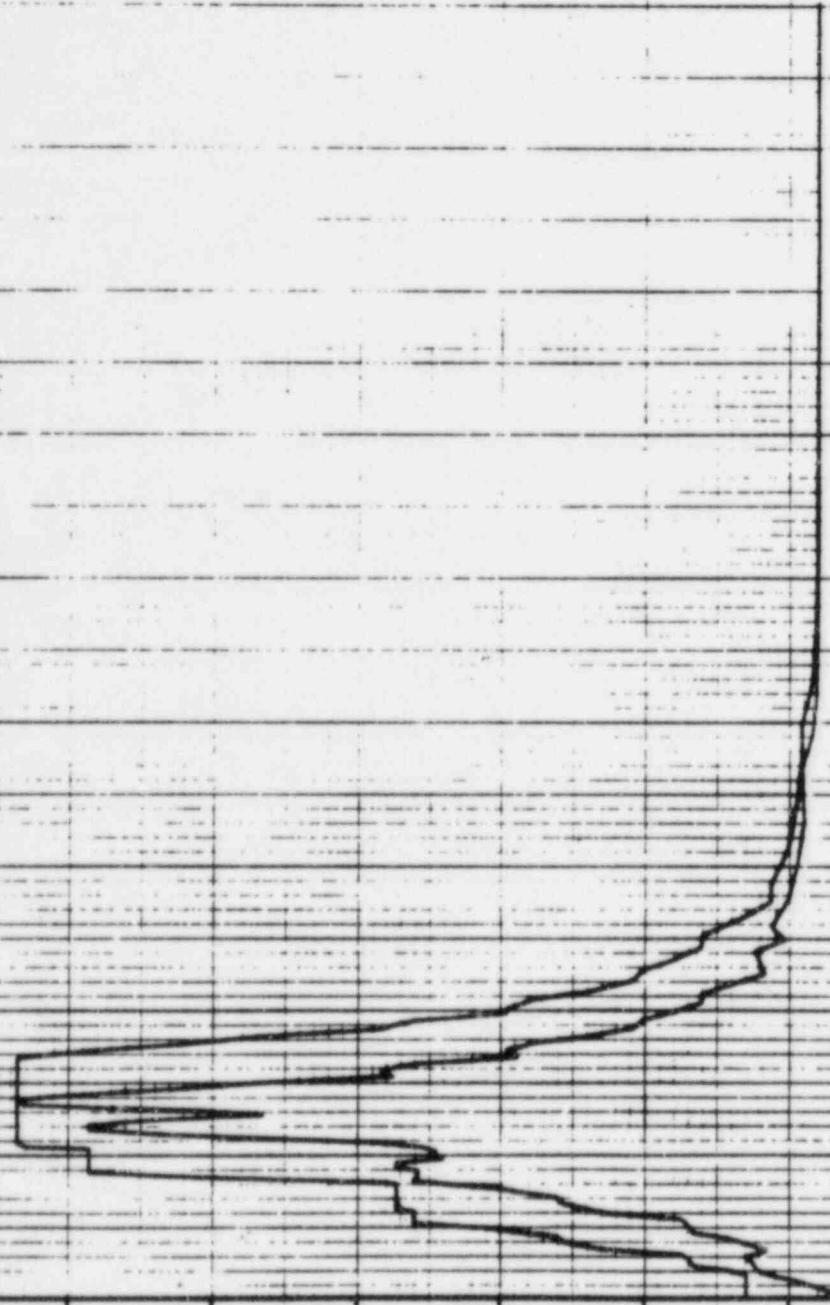
ACCELERATION

0.00

10

2 3 4 5 6 7 8 9 10

FREQUENCY IN HZ



PSPECTRA VER DI LEV 07

CULT STATE UTILITIES-RBS ONLY 1-CRCL12210-MNCT1-SDE-1903-REV 03
RBS OF REACTOR BLDG. EL=188.07, MASS=82 SETS MODEL-RPV
PEAK SPREAD 1.207, 25V

DISK CURVE SET NO. 52

1-D SSE

FOR DIRECTION

NOTE: REACTOR BLDG. MASS, PEAK SPREAD/MON (2218-201 (SD, 14 18DV 0)

DAMPING VALUE = 0.000

X-KRY

0.00

1.00

2.00

3.00

4.00

5.00

6.00

7.00

10⁰

ACCELERATION G

FREQUENCY IN HZ

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

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10¹

10²

10³

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10¹²

10¹³

10¹⁴

10¹⁵

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10³

10⁴

10⁵

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10⁸

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10¹¹

10¹²

10¹³

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10²

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10⁴

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10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

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10²

10³

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10¹⁴

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10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

10⁶

10⁷

10⁸

10⁹

10¹⁰

10¹¹

10¹²

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10¹⁴

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10⁰

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10²

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10⁴

10⁵

10⁶

10⁷

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10¹⁰

10¹¹

10¹²

10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

10⁴

10⁵

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10⁷

10⁸

10⁹

10¹⁰

10¹¹

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10¹³

10¹⁴

10¹⁵

10⁰

10¹

10²

10³

REF 100

CO 437 RD 234 HARVEY

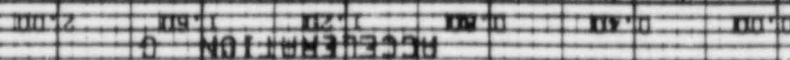
[illegible]

DISK CURVE SET NO. 52

3990

VER DIRECTION

CHAMPING VALLEY

[illegible]

| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ³ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ³ |
|---|---|---|---|---|---|---|---|---|-----------------|---|---|---|---|---|---|---|---|-----------------|
| 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ³ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 ³ |

PSPECTRA VER 01 LEV 07

22 APR 1982

GULF STATE UTILITIES-RBS UNIT 1-CALC12210-NM(C)-SQE-1909 REV(0)

RMS OF ACC.-REACTOR BLDG. EL=138.03, MASS=93 SEIS MODEL-RPV

PEAK SPREAD -20%, +25%

OBE

K.KAY

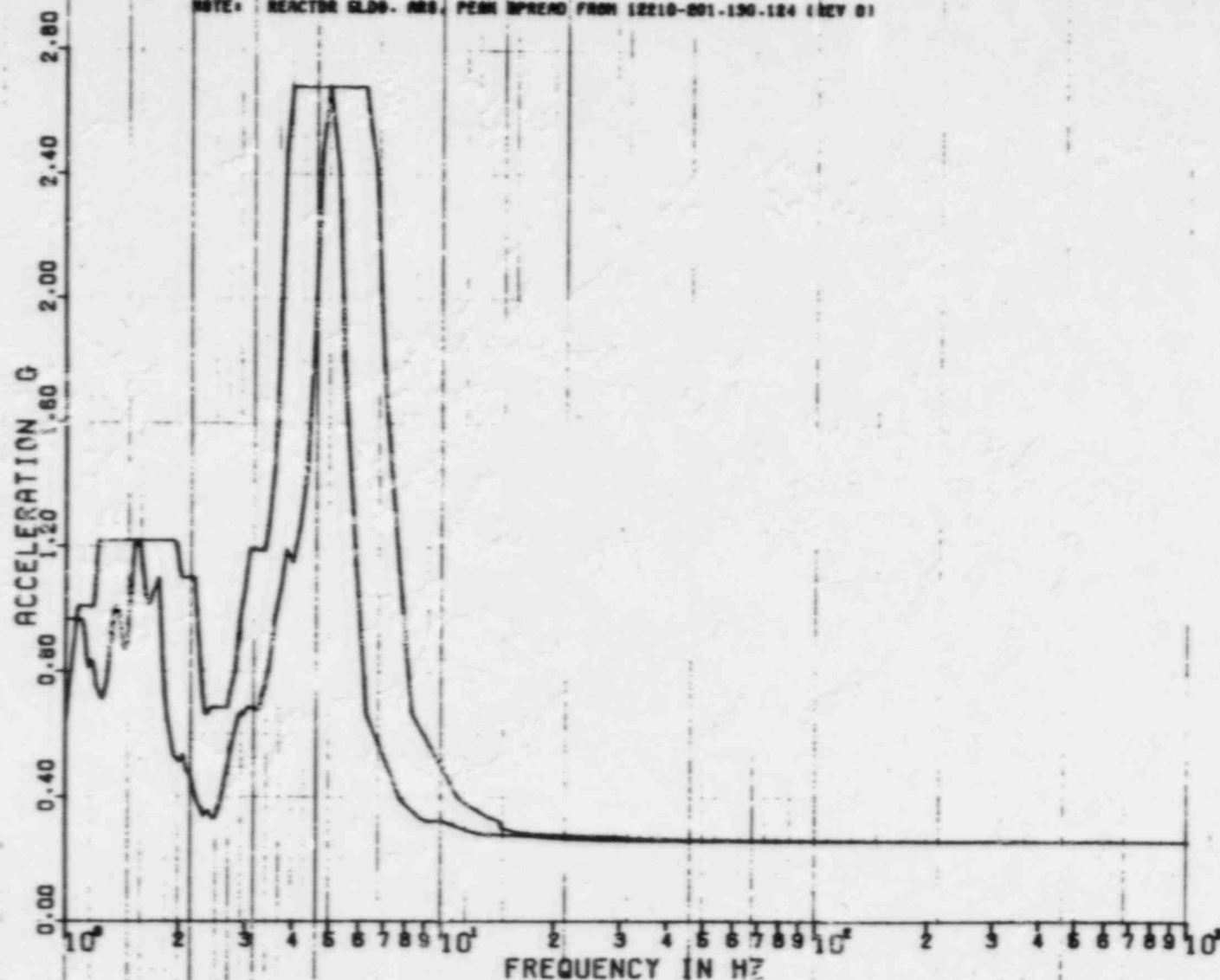
DISK CURVE SET NO.63

0.6 SSE

HOR DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201.130.124 (REV 0)



REF 101

PSPECTRA VER 01 LEV 07

GULF STATE UTILITIES-RSS UNIT 1-CALC1221D-MM(L)-SOF-1903 REV(0)
 RMS OF ACC.-REACTOR BLDG-EL-138.03.MASS=33 SEIS MODEL-RPV
 PEAK SPREAD -20%+25%
 OBE

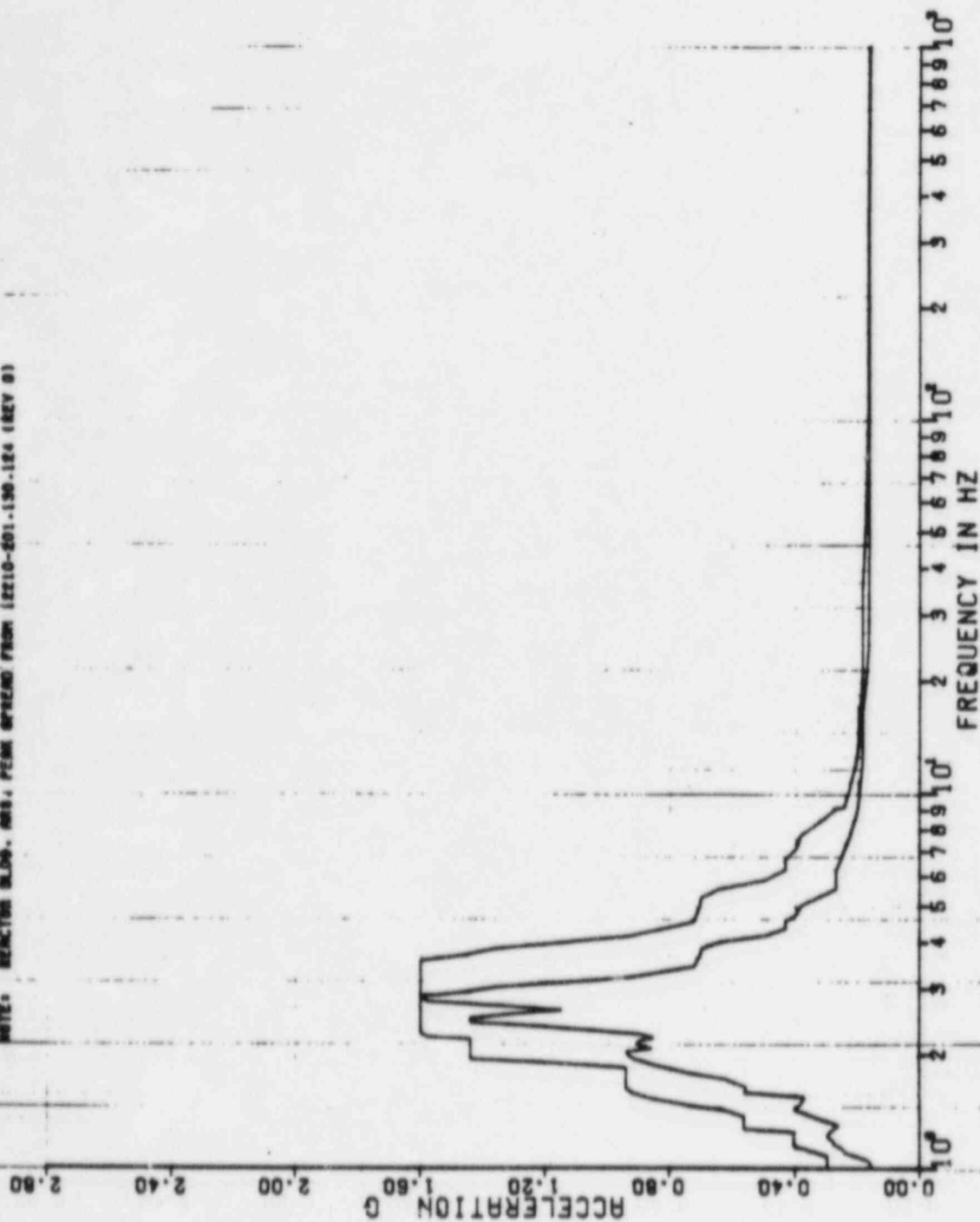
DISK CURVE SET NO.63

0.5 SSE

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR BLDG. RMS, PEAK SPREAD FROM 12210-201.130-124 (REV 0)



0504

8 FEB 1963

K. KAY

DAMPING VALUE = 0.020

PSPECTRA VER D3 LEV 08
 DULF STATES UTILITIES-085 UNIT 1-CAL. 12210-MMIC1-5DE-1903 REV111
 RRS OF ACC.-REACTOR BLDG.-EL-138.03, MASS=33 SE16 MODEL-RPV
 PEAK SPREAD -20Z +25Z

DISK CURVE SET NO.64

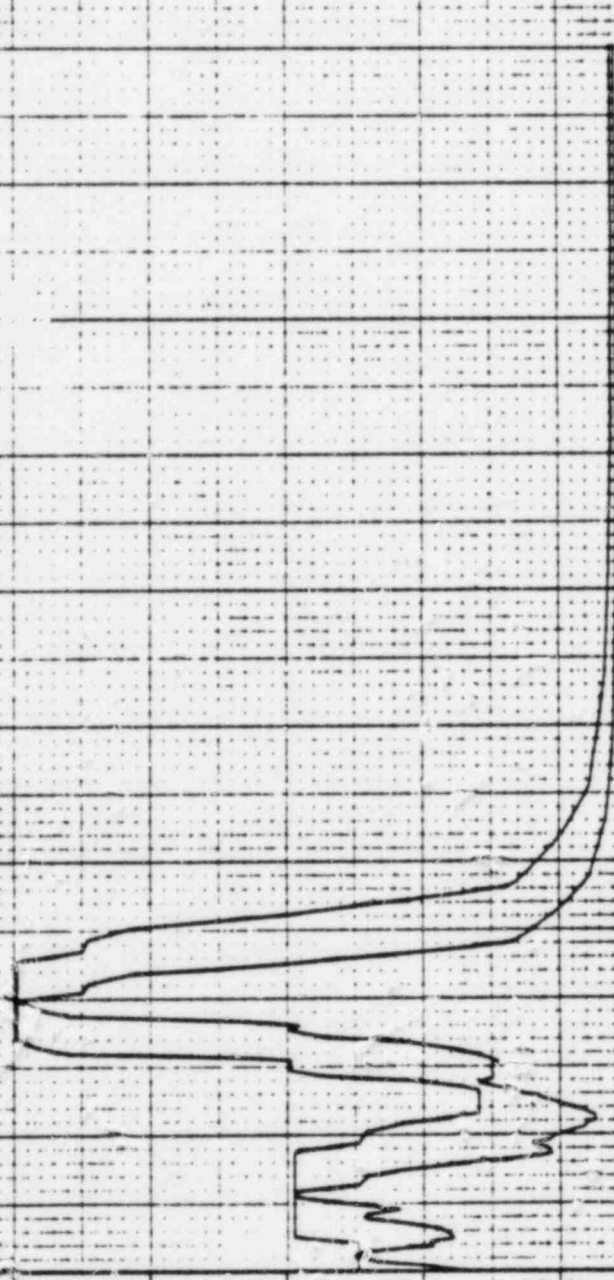
NOTE: REACTOR BLDG. MASS. PEAK SPREAD FROM 12210-101.130-124 (REV D)

1.0 SSE

HOR DIRECTION

ACCELERATION G

FREQUENCY IN HZ



PSPECTRA VER 01 LEV 08

GULF STATES UTILITIES-R06

UNIT 1-CALC12210-NR1C1-50E-1903 REV11

MRS OF ACC.-REACTOR MLDG.-EL-198-03, MRS5-53 5E16 MODEL-RPV

PEAK SPREAD -20Z +25Z

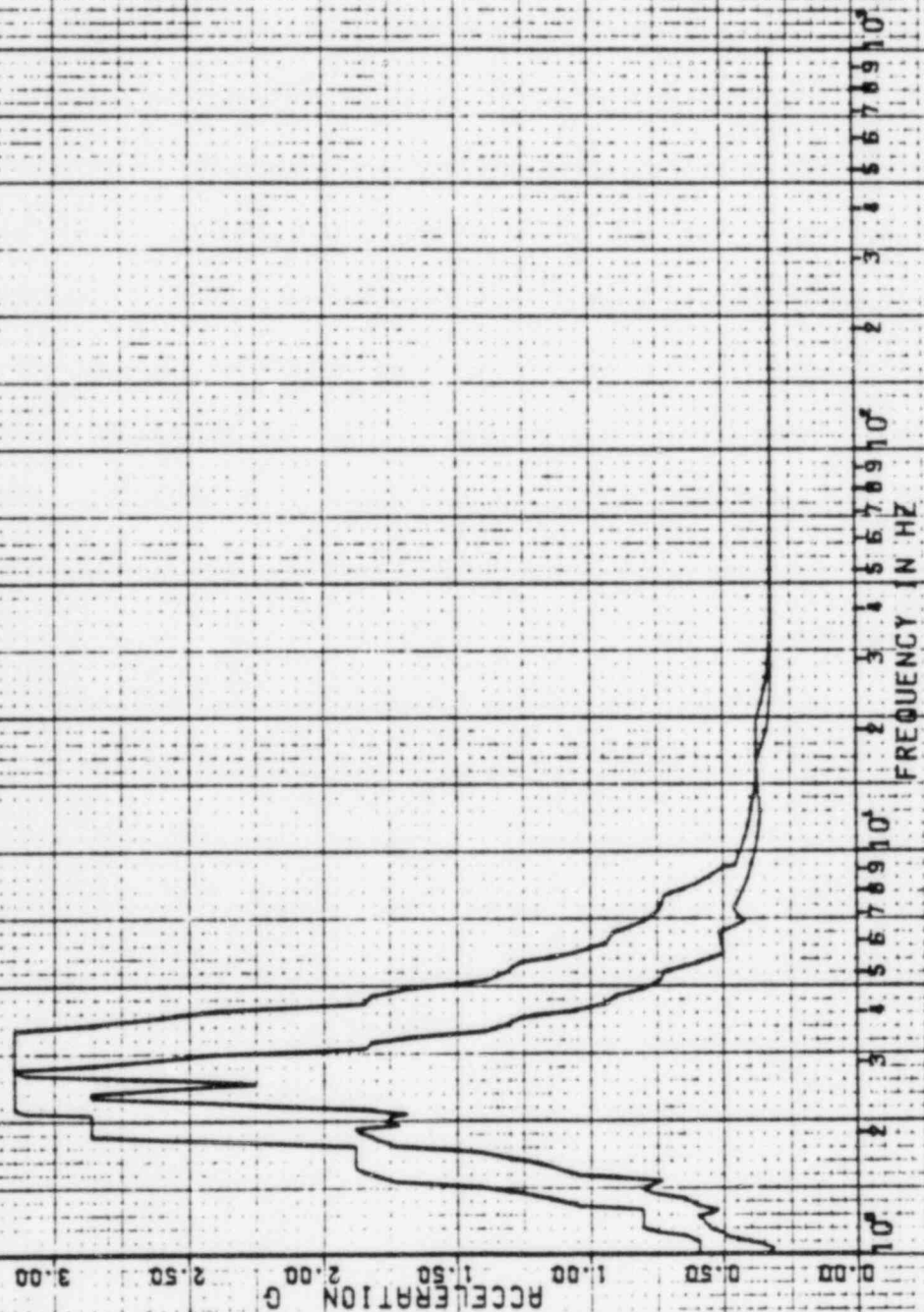
DISK CURVE SET NO.64

1.0 55E

VER DIRECTION

DAMPING VALUE = 0.020

NOTE: REACTOR MLDG. MRS. PEAK SPREAD FROM 12210-501.150-124 18EY D1



PSPECTRA VER 01 LEV 07

22 APR 1982

DULF STATE UTILITIES-RBS UNIT 1-CALC12210-NH(C)-6QE-1909 REV(0)

RMS OF ACC.-REACTOR BLDG. EL=198.03.MASS=99 SEIS MODEL-RPV

PEAK SPREAD -20%+.25%

6SE

K.KAY

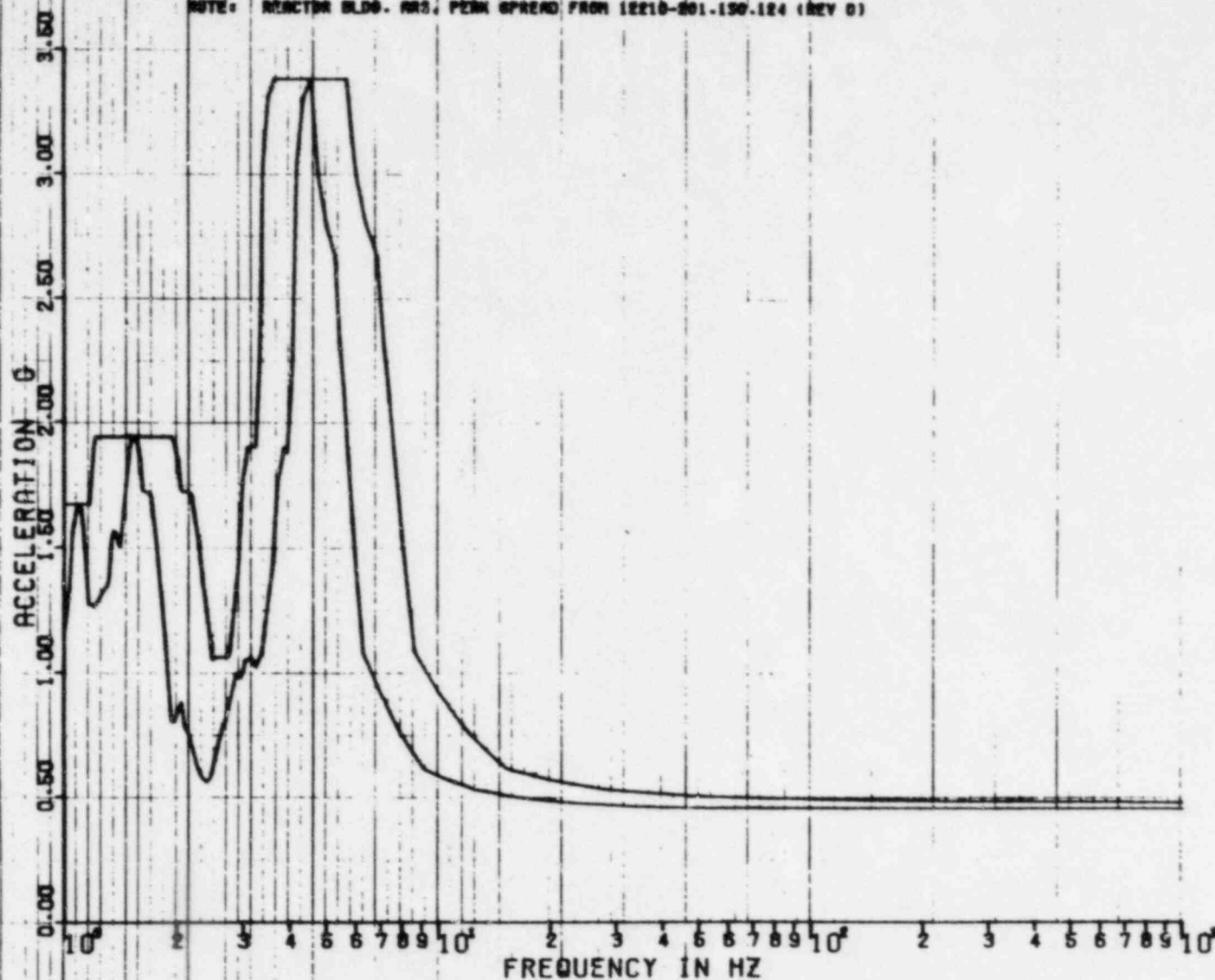
DISK CURVE SET NO.64

1.0 6SE

NOR DIRECTION

DAMPING VALUE = 0.030

NOTE: REACTOR BLDG. RMS. PEAK SPREAD FROM 12210-201.150.124 (REV 0)



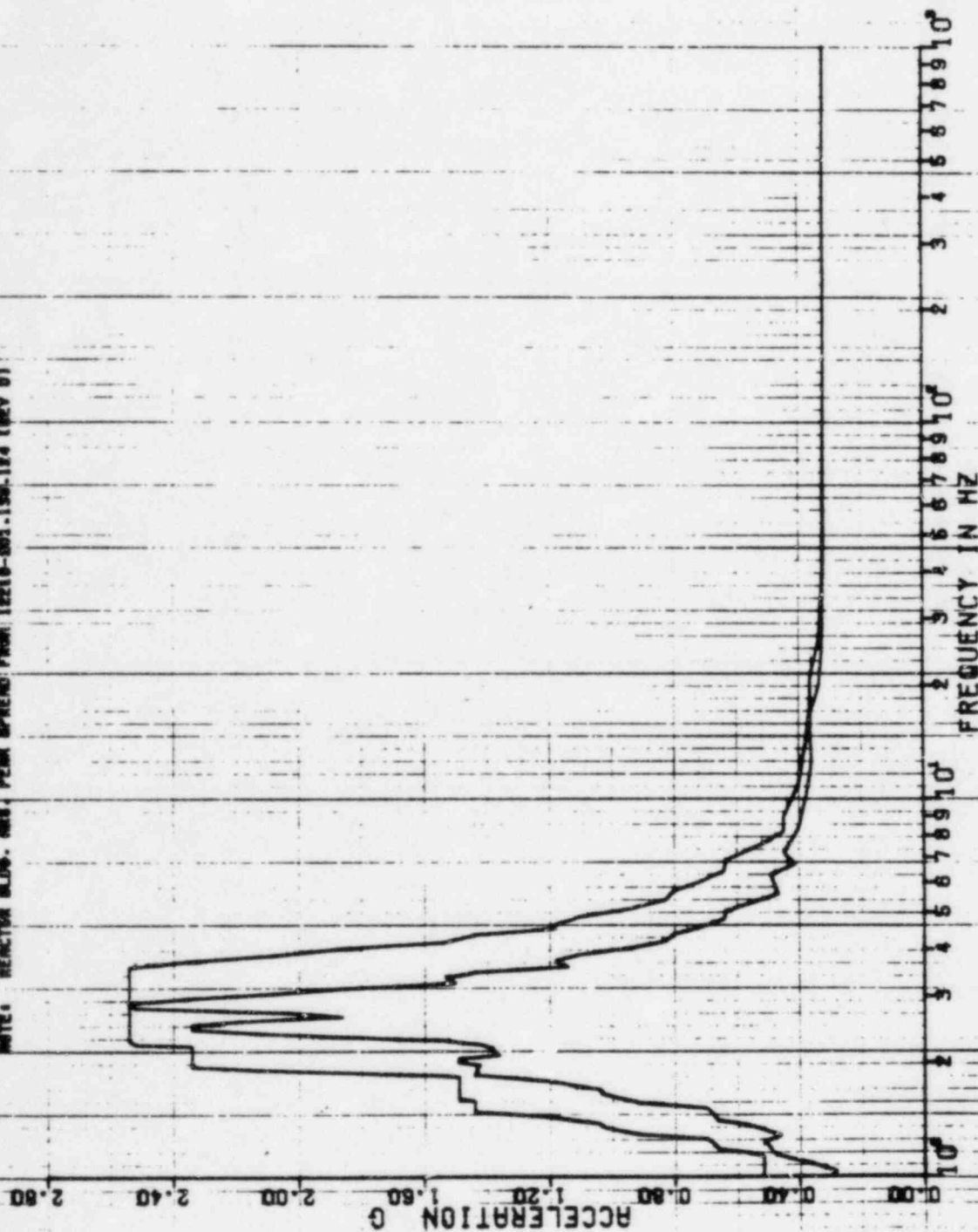
REF 101

22 APR 1982

K.KAY

DAMPING VALUE = 0.050

PEPECTRA VER 01 L-07
DULF STATE UTILITIES-RBS UNIT 1-CALC12210-WHIC3-SQE-1903 REV10)
RBS OF ACC.-REACTOR BLDG-EL-198-03-MASS-33 SEIS MODEL-RPV
PEAK SPREAD -20%+25Z
DISE CURVE SET MD-84
1.0 SSE VER DIRECTION
NOTE: REACTOR BLDG. RBS. PEAK SPREAD FROM 12210-001-158-184 (REV 0)



74

22 APR 1988

SPECTRA VER D1 LEV 07
 GULF STATE UTILITIES-RBS UNIT 1-CALC 12210 UNIT 1-SOL 1903 REV D)
 RMS OF ACC-REACTOR BLOC, CL=198.03, MASS=93 SEIS MODEL-RPV
 PEAK SPREAD 1907.195Z

X-RAY
 DAMPING VALUE = 0.010

1-D SSE HDR DIRECTION

DISK CURVE SET NO. 6A

50 HZ 100 HZ 200 HZ 400 HZ 800 HZ 1600 HZ 3200 HZ 6400 HZ 12800 HZ 25600 HZ 51200 HZ 102400 HZ 204800 HZ 409600 HZ 819200 HZ 1638400 HZ 3276800 HZ 6553600 HZ 13107200 HZ 26214400 HZ 52428800 HZ 104857600 HZ 209715200 HZ 419430400 HZ 838860800 HZ 1677721600 HZ 3355443200 HZ 6710886400 HZ 13421772800 HZ 26843545600 HZ 53687091200 HZ 107374182400 HZ 214748364800 HZ 429496729600 HZ 858993459200 HZ 1717986918400 HZ 3435973836800 HZ 6871947673600 HZ 13743895347200 HZ 27487790694400 HZ 54975581388800 HZ 109951162777600 HZ 219902325555200 HZ 439804651110400 HZ 879609302220800 HZ 1759218604441600 HZ 3518437208883200 HZ 7036874417766400 HZ 14073748835532800 HZ 28147497671065600 HZ 56294995342131200 HZ 112589990684262400 HZ 225179981368524800 HZ 450359962737049600 HZ 900719925474099200 HZ 1801439850948198400 HZ 3602879701896396800 HZ 7205759403792793600 HZ 14411518807585587200 HZ 28823037615171174400 HZ 57646075230342348800 HZ 115292150460684697600 HZ 230584300921369395200 HZ 461168601842738790400 HZ 922337203685477580800 HZ 1844674407370955161600 HZ 3689348814741910323200 HZ 7378697629483820646400 HZ 14757395258967641292800 HZ 29514790517935282585600 HZ 59029581035870565171200 HZ 118059162071741130342400 HZ 236118324143482260684800 HZ 472236648286964521369600 HZ 944473296573929042739200 HZ 1888946593147858085478400 HZ 3777893186295716170956800 HZ 7555786372591432341913600 HZ 15111572745182864683827200 HZ 30223145490365729367654400 HZ 60446290980731458735308800 HZ 120892581961462917470617600 HZ 241785163922925834941235200 HZ 483570327845851669882470400 HZ 967140655691703339764940800 HZ 1934281311383406679529881600 HZ 3868562622766813359059763200 HZ 7737125245533626718119526400 HZ 15474250491067253436239052800 HZ 30948500982134506872478105600 HZ 61897001964269013744956211200 HZ 123794003928538027489912422400 HZ 247588007857076054979824844800 HZ 495176015714152109959649689600 HZ 990352031428304219919299379200 HZ 1980704062856608439838598758400 HZ 3961408125713216879677197516800 HZ 7922816251426433759354395033600 HZ 15845632502852867518708790067200 HZ 31691265005705735037417580134400 HZ 63382530011411470074835160268800 HZ 126765060022822940149670320537600 HZ 253530120045645880299340641075200 HZ 507060240091291760598681282150400 HZ 1014120480182583521197362564300800 HZ 2028240960365167042394725128601600 HZ 4056481920730334084789450257203200 HZ 8112963841460668169578900514406400 HZ 16225927682921336339157801028812800 HZ 32451855365842672678315602057625600 HZ 64903710731685345356631204115251200 HZ 129807421463370690713262408230502400 HZ 259614842926741381426524816461004800 HZ 519229685853482762853049632922009600 HZ 1038459371706965525706099265844019200 HZ 2076918743413931051412198531688038400 HZ 4153837486827862102824397063376076800 HZ 8307674973655724205648794126752153600 HZ 16615349947311448411297588253504307200 HZ 33230699894622896822595176507008614400 HZ 66461399789245793645190353014017228800 HZ 132922799578491587290380706028034457600 HZ 265845599156983174580761412056068915200 HZ 531691198313966349161522824112137830400 HZ 1063382396627932698323045648224275660800 HZ 2126764793255865396646091296448551321600 HZ 4253529586511730793292182592897102643200 HZ 8507059173023461586584365185794205286400 HZ 17014118346046923173168730371588410572800 HZ 34028236692093846346337460743176821145600 HZ 68056473384187692692674921486353642291200 HZ 136112946768375385385349842972707284582400 HZ 272225893536750770770699685945414569164800 HZ 544451787073501541541399371890829138329600 HZ 1088903574147003083082798743781658276659200 HZ 2177807148294006166165597487563316553318400 HZ 4355614296588012332331194975126633106636800 HZ 8711228593176024664662389950253266213273600 HZ 17422457186352049329324779900506532426547200 HZ 34844914372704098658649559801013064853094400 HZ 69689828745408197317299119602026129706188800 HZ 139379657490816394634598239204052259412377600 HZ 278759314981632789269196478408104518824755200 HZ 557518629963265578538392956816209037649510400 HZ 1115037259926531157076785913632418075299020800 HZ 2230074519853062314153571827264836150598041600 HZ 4460149039706124628307143654529672301196083200 HZ 8920298079412249256614287309059344602392166400 HZ 17840596158824498513228574618118689204784332800 HZ 35681192317648997026457149236237378409568665600 HZ 71362384635297994052914298472474756819137331200 HZ 142724769270595988105828596944949513638274662400 HZ 285449538541191976211657193889899027276549324800 HZ 570899077082383952423314387779798054553098649600 HZ 1141798154164767904846628775559596109106197299200 HZ 2283596308329535809693257551119192218212394598400 HZ 4567192616659071619386515102238384436424789196800 HZ 9134385233318143238773030204476768872849578393600 HZ 18268770466636286477546060408953537745699156787200 HZ 36537540933272572955092120817907075491398313574400 HZ 73075081866545145910184241635814150982796627148800 HZ 146150163733090291820368483271628301965593254297600 HZ 292300327466180583640736966543256603931186508595200 HZ 584600654932361167281473933086513207862373017190400 HZ 1169201309864722334562947866173026415724746034380800 HZ 2338402619729444669125895732346052831449492068761600 HZ 4676805239458889338251791464692105662898984137523200 HZ 9353610478917778676503582929384211325797968275046400 HZ 18707220957835557353007165858768422651595936550092800 HZ 37414441915671114706014331717536845303191873100185600 HZ 74828883831342229412028663435073690606383746200371200 HZ 149657767662684458824057326870147381212767492400742400 HZ 299315535325368917648114653740294762425534984801484800 HZ 598631070650737835296229307480589524851069969602969600 HZ 1197262141301475670592458614961179049702139939205939200 HZ 2394524282602951341184917229922358099404279878411878400 HZ 4789048565205902682369834459844716198808559756823756800 HZ 9578097130411805364739668919689432397617119513647513600 HZ 19156194260823610729479337839378864795234239027295027200 HZ 38312388521647221458958675678757729590468478054590054400 HZ 76624777043294442917917351357515459180936956109180108800 HZ 153249554086588885835834702715030918361873912218360217600 HZ 306499108173177771671669405430061836723747824436720435200 HZ 612998216346355543343338810860123673447495648873440870400 HZ 1225996432692711086686677621720247346894991297746881740800 HZ 2451992865385422173373355243440494693789982595493763481600 HZ 4903985730770844346746710486880989387579965190987526963200 HZ 9807971461541688693493420973761978775159930381975053926400 HZ 19615942923083377386986841947523957550319860763950107852800 HZ 39231885846166754773973683895047915100639721527900215705600 HZ 78463771692333509547947367790095830201279443055800431411200 HZ 156927543384667019095894735580191660402558886111600862822400 HZ 313855086769334038191789471160383320805117772223201725644800 HZ 627710173538668076383578942320766641610235544446403451289600 HZ 1255420347077336152767157884641533283220471088892806902579200 HZ 2510840694154672305534315769283066566440942177785613805158400 HZ 5021681388309344611068631538566133132881884355571227610316800 HZ 10043362776618689222137263077132262657763768711142455220633600 HZ 20086725553237378444274526154264525315527537422284910441267200 HZ 40173451106474756888549052308529050631055074844569820882534400 HZ 80346902212949513777098104617058101262110149689139641765068800 HZ 160693804425899027554196209234116202524220299378279283530137600 HZ 321387608851798055108392418468232405048440598756558567060275200 HZ 642775217703596110216784836936464810096881197513117134120550400 HZ 1285550435407192220433569673872929620193762395026234268241100800 HZ 2571100870814384440867139347745859240387524790052468536482201600 HZ 5142201741628768881734278695491718480775049580104937072964403200 HZ 10284403483257537763468557390983436961550099160209874145928806400 HZ 20568806966515075526937114781966873923100198320419748291857612800 HZ 41137613933030151053874229563933747846200396640839496583715225600 HZ 82275227866060302107748459127867495692400793281678993167430451200 HZ 164550455732120604215496918255734991384801586563357986334860902400 HZ 329100911464241208430993836511469982769603173126715972669721804800 HZ 658201822928482416861987673022939965539206346253431945339443609600 HZ 1316403645856964833723975346045879931078412692506863890678887219200 HZ 2632807291713929667447950692091759862156825385013727781357774438400 HZ 5265614583427859334895901384183519724313650770027455562715548876800 HZ 10531229166855718669791802768367039448627301540054911125431097753600 HZ 21062458333711437339583605536734078897254603080109822250862195507200 HZ 42124916667422874679167211073468157794509206160219644501724391014400 HZ 84249833334845749358334422146936315589018412320439289003448782028800 HZ 168499666669691498716668844293872631178036824640878578006897564057600 HZ 336999333339382997433337688587745262356073649281757156013795128115200 HZ 673998666678765994866675377175490524712147298563514312027590256230400 HZ 1347997333357531989733350754350981049424294597127028624055180512460800 HZ 2695994666715063979466701508701962098848589194254057248110361024921600 HZ 5391989333430127958933403017403924197697178388508114496220722049843200 HZ 10783978666860255917866806034807848395394356777016228992441444099686400 HZ 21567957333720511835733612069615696790788713554032457984882888199372800 HZ 43135914667441023671467224139231393581577427108064915969765776398745600 HZ 86271829334882047342934448278462787163154854216129831939531552797491200 HZ 172543658669764094685868896556925574326309708432259663879063105594982400 HZ 345087317339528189371737793113851148652619416864519327758126211189964800 HZ 690174634679056378743475586227702297305238833729038655516252422379929600 HZ 1380349269358112757486951172455404594610477667458077311032504844759859200 HZ 2760698538716225514973902344910809189220955334916154622065009689519718400 HZ 5521397077432451029947804689821618378441910669832309244130019379039436800 HZ 11042794154864902059895609379643236756883821339664618488260038758078873600 HZ 22085588309729804119791218759286473513767642679329236976520077516157747200 HZ 44171176619459608239582437518572947027535285358658473953040155032315494400 HZ 88342353238919216479164875037145894055070570717316947906080310064630988800 HZ 176684706477838432958329750074291788110141141434633895812160620129261977600 HZ 353369412955676865916659500148583576220282282869267791624321240258523955200 HZ 706738825911353731833319000297167152440564565738535583248642480517047910400 HZ 1413477651822707463666638000594334304881129131477071166497284961034095820800 HZ 2826955303645414927333276001188668609762258262954142332994569922068191641600 HZ 5653910607290829854666552002377337219524516525908284665989139844136383283200 HZ 11307821214581659709333104004754674439049033051816569331978279688272766566400 HZ 22615642429163319418666208009509348878098066103633138663956559376545533132800 HZ 45231284858326638837332416019018697756196132207266277327913118753091066265600 HZ 90462569716653277674664832038037395512392264414532554655826237506182132531200 HZ 180925139433306555349329664076074791024784528829065109311652475012364265062400 HZ 361850278866613110698659328152149582049569057658130218623304950024728530124800 HZ 723700557733226221397318656304299164099138115316260437246609900049457060249600 HZ 1447401115466452442794637312608598328198276230632520874493219800098914120499200 HZ 2894802230932904885589274625217196656396552461265041748986439600197828240998400 HZ 5789604461865809771178549250434393312793104922530083497972879200395656481996800 HZ 11579208923731619542357098500868786625586209845060166995945758400791312963993600 HZ 23158417847463239084714197001737573251172419690120033391891516801582625927987200 HZ 46316835694926478169428394003475146502344839380240066783783033603165251855974400 HZ 92633671389852956338856788006950293004689678760480133575666067206330503711948800 HZ 185267342779705912677713576013900586009379357520960267151332134412661007423897600 HZ 370534685559411825355427152027801172018758715041920534302664268825322014847795200 HZ 741069371118823650710854304055602344037517430083841068605328537650644029695590400 HZ 1482138742237647301421708608111204688075034860167682137210657075301288059391180800 HZ 2964277484475294602843417216222409376150069720

PSPECTRA VER 01 LEY 07

GULF STATE UTILITIES 205 UNIT 1 - CAL 12210 - NR 101 - 50E - 1903 REV 101

RRS OF REC. - REACTOR BLOC ELE 38.03 - MASS-93 SE S MODEL-RPV

PEAK SPEED - 207.257

SSE

DISK CURVE SET UN 1.64

D SSE

VER DIRECTION

DAMPING VALUE = 0.040

NOTE: REACTOR BLOC. RES. PEAK SPEED 207.257 130.14 165V 01

2.50

2.40

2.30

2.20

2.10

2.00

1.90

1.80

FREQUENCY IN HZ

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