



PECO ENERGY

PECO Energy Company
Nuclear Group Headquarters
965 Chesterbrook Boulevard
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July 14, 1994

Docket Nos. 50-352
50-353

License Nos. NPF-39
NPF-85

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Subject: Limerick Generating Station, Units 1 and 2
Response to Request for Additional Information Concerning
Technical Specification Change Request No. 93-19-0

Gentlemen:

This letter is being submitted in response to the NRC's request for additional information concerning Limerick Generating Station (LGS), Units 1 and 2, Technical Specifications (TS) Change Request No. 93-19-0. PECO Energy Company submitted TS Change Request No. 93-19-0 by letter dated January 14, 1994, requesting that the TS (Appendix A) of Operating License Nos. NPF-39 and NPF-85 for LGS, Units 1 and 2, respectively, be amended to increase the spent fuel storage capacity in each Spent Fuel Pool (SFP) from 2050 fuel assemblies to 4117 fuel assemblies. This proposed TS change is necessary to facilitate implementation of a plant modification to install new high density spent fuel storage racks in each SFP at LGS.

Subsequently, by letter dated May 16, 1994, the NRC requested that we provide additional supporting information in order for the NRC to continue its review of this proposed TS Change Request. Specifically, the NRC identified 26 questions relative to the SFP reracking effort which involve issues pertaining to Plant Systems, Structural Engineering, and Radiation Protection. Therefore, the attached information is being provided in response to the NRC's request. Each of the 26 questions identified by the NRC is restated in Attachment 1 to this letter followed by our response. Attachment 2 to this letter is a 3.5-inch computer diskette containing the digitalized artificial time-history data requested by the NRC. This additional information is being submitted under affirmation, and the required affidavit is enclosed.

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

G. A. Hunger, Jr.
Director - Licensing

Attachments
Enclosure

Acc 11 Diskette to Reg Files

cc: T. T. Martin, Administrator, USNRC, Region I (w/ Attachment 1, enclosure)
N. S. Perry, USNRC Senior Resident Inspector (w/ Attachment 1, enclosure)
R. R. Janati, Director, PA Bureau of Radiation Protection (w/ Attachment 1, enclosure)

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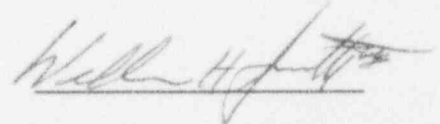
ss.

COUNTY OF CHESTER

:

W. H. Smith, III, being first duly sworn, deposes and says:

That he is Vice President of PECO Energy Company; the Applicant herein; that he has read the foregoing response to the request for additional information for Technical Specifications Change Request No. 93-19-0 for Limerick Generating Station, Units 1 and 2, Facility Operating License Nos. NPF-39 and NPF-85, to increase the spent fuel storage capacity in each Spent Fuel Pool from 2050 fuel assemblies to 4117 fuel assemblies, and knows the contents thereof; and that the statements and matters set forth therein are true and correct to the best of his knowledge, information, and belief.

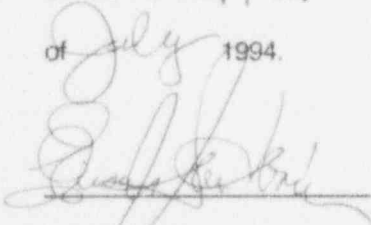


Vice President

Subscribed and sworn to

before me this 14th day

of July 1994.



Notary Public

Notarial Seal
Erica A. Santon, Notary Public
Tredyffrin Twp. Chester County
My Commission Expires July 10, 1995

Attachment 1

Response to Request for Additional Information Concerning Technical Specifications Change Request No. 93-19-0 Submitted to Increase the Spent Fuel Pool Storage Capacity

PLANT SYSTEMS

Question #1

As indicated in Attachment 2 of the January 14, 1994 submittal, the spent fuel pools (SFP) cooling system, with two out of three cooling trains operating, has sufficient cooling to maintain the SFP bulk water temperature at or below 143°F, and the net normal heat load corresponding to the maximum water temperature is 18.06×10^6 Btu/hr. However, the design heat removal rate for each cooling train is 4.0×10^6 Btu/hr and, it is not clear how two SFP cooling trains with a combined design heat removal rate (8.0×10^6 Btu/hr), which is less than the heat generation rate (18.05×10^6) in the SFP, will be able to maintain the pool temperature to or below 143°F. Provide detailed information (e.g., detailed computation of the minimum free pool water volume, heat transfer from the walls of the pool, etc.) to demonstrate how the above pool temperature of 143°F is determined.

Response to Question #1

The heat exchanger capacity is defined as:

$$Q = W_t C_p \Delta t$$

where:

W_t	=	coolant flow rate, (550,000 lb/hr design)
C_p	=	heat capacity of water (1.0 Btu/hr °F)
Δt	=	coolant temperature rise across heat exchanger, °F

The design $\Delta t = 7.3^\circ\text{F}$, which results in 4.0×10^6 Btu/hr heat duty for each cooling train. In the new evaluation, the Δt corresponding to the peak water temperature of 143°F is about 16.4°F. At that instant, the single exchanger capacity rises to 9×10^6 Btu/hr. For both coolers, the total duty is 18×10^6 Btu/hr. Therefore, the heat exchanger duty is in equilibrium with the heat load.

Question #2

In Attachment 1 of the January 14, 1994 submittal, you stated that the time to boil of 13.5 hours, currently specified in the Updated Final Safety Analysis Report (UFSAR), bounds the time to boil of 9.15 hours presented in the supporting Safety Analysis Report. The 13.5 hours applies for 21 days after reactor shutdown and the 9.15 hours applies for 7.25 days after reactor shutdown. Because the calculated time of 13.5 hours for the SFP to boil is less conservative than that of 9.15 hours, it is not clear what the above statement means. Provide clarification for the above statement.

Response to Question #2

The statement in Attachment 1 of our January 14, 1994 submittal is confusing and requires additional clarification. The intent of this information was to illustrate that the Holtec Safety Analysis Report provided a conservative loss of SFP cooling analysis, and that this analysis demonstrated a relatively small change in the time to boil of the SFP. The time to boil of 9.15 hours continues to provide sufficient time for plant Operations personnel to respond (i.e., provide adequate make-up water) to a loss of SFP cooling. Therefore, there is no significant change to the consequences associated with a loss of SFP cooling. The new time-to-boil during a normal discharge is 9.15 hours. The current UFSAR shows the time-to-boil of 13.5 hours. The reduction in the time to boil

is due to (1) the increase of the decay heat load due to the increase of SFP storage capacity and (2) the reduction of the assumed decay time during the postulated loss-of-cooling from about 21 days to approximately 7.25 days. The new analysis, therefore, is a more conservative scenario from the perspective of decay time.

Question #3

With regard to the calculation for the maximum amount of thermal energy to be removed by the SFP cooling system, the Standard Review Plan (SRP), Section 9.1.3, "Spent Fuel Pool Cooling and Cleanup System," provides, in part, the following guidance:

- a. The normal maximum spent fuel heat load is set at one refueling load at equilibrium conditions after 150 hours (not 7.25 days) decay and one refueling load to equilibrium conditions after 1 year decay.
- b. The spent fuel pool cooling system should have the capacity to remove the decay heat from one full core at equilibrium conditions after 150 hours decay and one refueling load at equilibrium conditions after 36 days decay.

Therefore, revise the decay heat and SFP heat-up calculations (e.g., normal decay heat load, maximum anticipated decay heat load, pool temperatures, pool time-to-boil, etc.), as presented in various sections in the January 14, 1994, submittal and in the UFSAR, to reflect the above SRP guidance.

Response to Question #3

The SRP Section 9.1.3 provides generic guidance for the SFP decay heat loads. It also provides generic guidance on the heat-up calculations in that only three (3) refueling loads of spent fuel discharged to the pool need to be considered regardless of the pool storage capacity. The maximum SFP decay heat predictions performed for this Technical Specification Change Requests are based on the plant-specific, spent-fuel, storage capacity; plant specific fuel cycles; and the bounding fuel discharge practice.

Question #4

The activity release analysis presented in the UFSAR assumes 40,600 ft³ of water in each SFP. The pool heat-up and time to boil analysis presented in the January 14, 1994 submittal, assumes 46,000 ft³ of water in each SFP. Provide clarification for the above discrepancy. In addition, the installation of the new spent fuel storage racks will increase the spent fuel storage capacity in each of the SFPs. Therefore, the minimum free volume of water assumed in the pool heat up and time to boil analysis should be revised to reflect this decrease in free pool water volume. Please address this staff concern.

Response to Question #4

The SFP volume value of 46,000 ft³ identified in Attachment 1 of our January 14, 1994 submittal, is referenced in UFSAR Section 9.1.2.2.2.1 represents an approximate volume of the SFP. UFSAR Section 9.1.3.6 assumes a volume of 40,600 ft³ ($2.53 \times 10^6 \text{ lb}_m$) of water in each SFP. We consider the difference in these numbers to correlate to the volume of the existing spent fuel storage racks. However, the new analysis conservatively assumes 35,800 ft³ net water volume in the spent fuel pool based on water level of 22 feet over the top of the racks (36.77 feet from the floor). About 8,000 ft³ volume was conservatively excluded for the racks and fuel in each of the SFP.

STRUCTURAL ENGINEERING

Question #5

Describe the method of leak detection and monitoring the spent fuel pool. Also, state if you are aware of any existing leakage.

Response to Question #5

The spent fuel pool is checked for leakage on a daily basis utilizing seven (7) fuel pool liner drains. At this time there is no evidence of any existing leakage.

Question #6

Describe the relation between the Skimmer Surge Tank and the SFP level.

Response to Question #6

As specified in UFSAR Section 9.1.3.2.2.1, two (2) of the skimmer surge tanks collect overflow water from the SFP and the reactor well through skimmer drain openings with adjustable weirs at the pool surface elevation. A wave suppression scupper along one (1) side of the SFP is drained by the drain headers. The skimmer surge tanks provide a suction head for the Fuel Pool Cooling and Cleaning (FPCC) system pumps and Residual Heat Removal (RHR) system pumps and serve as a buffer volume during transient flow in the normally closed-loop FPCC system.

Question #7

The licensing report indicates that the pedestals of the existing racks have an aluminum threaded component. State if you have detected any indication of corrosion of the SFP mat due to the dissimilar metals (steel/aluminum) in the borated water environment.

Response to Question #7

As specified in UFSAR Section 9.1.2.2.2.2, the racks have adjustable foot assemblies that have a stainless steel bearing plate, a volumetrically captured plastic insulator, and an aluminum threaded section for height adjustment. The insulator provides protection from galvanic corrosion between the stainless and aluminum surfaces. All aluminum components are anodized individually. Also, as specified in UFSAR Section 9.1.2.1, the LGS SFP is "flooded with nonborated water."

Question #8

The licensing report indicates that the increased capacity in the proposed reracking results more from the utilization of the floor space rather than by the change in cell-pitch. Provide an expanded discussion of this noted condition.

Response to Question #8

The cell-to-cell pitch in the existing and new (Holtec) racks at Limerick Generating Station (LGS) is 6.625 inches and 6.244 inches, respectively. Change in pitch alone would increase capacity by approximately $[(6.625/6.244)^2 - 1] \times 100\% = 12.5\%$. The actual capacity increase realized at LGS is roughly 100% (i.e., from 2040 to 4117 fuel assemblies). Therefore, the increase in capacity has been derived from better use of storage capacity rather than from pitch compression.

Question #9

Describe the function and construction of the proposed overhead platforms. State and discuss their load capacity, and indicate if they will be removed and replaced after the placing of the assemblies and how this condition is factored in the rack analysis.

Response to Question #9

The overhead platform is an all-welded austenitic stainless steel structure designed to be emplaced on a rack at a minimum of four locations to ensure a stable and error proof installation. The overhead platform serves the following functions.

- (a) It serves to store in-pool objects in a kinematically stable configuration. Using the platform to store objects minimizes the need to hang objects from the SFP walls, thereby reducing the potential of large side sway during seismic events.
- (b) It protects the fuel stored underneath from inadvertent drop events.

The platform is quite light (i.e., less than 1900 lbs dry), which is only slightly more than the weight of a typical fuel assembly. The platform is equipped with carefully engineered lifting lugs to enable it to be moved in the pool. A loaded platform will first be unloaded before moving it. The rated load capacity of the platform is 6 tons. Rack analyses have been carried out assuming a platform in place and the rack loaded with fuel. Additional information concerning the rack analysis is provided in response to Question #20 below.

Question #10

Describe the method used to develop spectra at the SFP floor level.

Response to Question #10

The response spectra that were used as input to the analysis are the same in-structure response spectra that are described in the LGS UFSAR. The models and methods used to develop the response for seismic for seismic loads are described in LGS UFSAR Section 3.7.2.5. The models and methods used to develop the response spectra for the hydrodynamic loads are described in the LGS UFSAR, Appendix 3A, Section 3A.7.1.1.2.

Question #11

In the Final Safety Analysis Report (FSAR), you stated that four artificial time histories were generated from the design response spectra and that four response spectra were developed using the four artificial time histories. Also, you stated that an average response spectrum of the four response spectra enveloped the licensing basis design response spectra. However, your submittal indicates that you used a single time history for the actual structural dynamic analyses, rather than using the multiple (four) time histories. Provide your response to the following:

- a. State whether or not you used the multiple time histories for structural dynamic analyses.
- b. If a single time history was used, state if the time history used in the analysis is the most conservative time history among the four generated artificial time histories.
- c. The Standard Review Plan (SRP) Section 3.7.1 clearly states, if a single time history is used, demonstration of the adequacy of an artificial time history, including a determination of the extent of conformance to a target power spectral density (PSD) function of the artificial time history, should be provided. Demonstrate the adequacy of the single artificial time history

used in a safe shutdown earthquake (SSE) analysis in accordance with guidance provided in SRP Section 3.7.1.

- d. Provide the four response spectra developed from the four artificial time histories and compare them with the design response spectrum of the FSAR.
- e. Discuss the basis for selecting Time History No. 2 over the Time History No. 3 in the SSE analysis. Provide justification that Time History No. 2 is more conservative than the No. 3.
- f. Provide the digitized artificial time histories representing the input motions at the spent fuel pool floor, which correspond to the SSE and operating basis earthquake (OBE), in a 3.5-inch diskette for use by the staff in performing an independent analysis.

Response to Question #11

- a. Multiple time-histories were used in the single rack analyses for Rack C2, (i.e., the heaviest module). One controlling time-history set was determined for each time-history group through the multiple time-history dynamic analysis according to the procedures described in Section 6.7.1 of Ref. [1].
- b. The multiple time-history dynamic analysis results are compared in Table 11.1. As shown, there are no evidences of any chaotic effect when different sets of time-histories were applied. It is clear that set-2 gives the largest responses. To ensure conservatism, the chosen "controlling" set is further multiplied by an additional 10% in the remainder of the single time-history dynamic analyses, and in all of the multi-rack analyses.
- c. Multiple time-history methods were used to develop a controlling set; therefore, a PSD envelope is not required. This methodology of developing four (4) time-histories, applying them to a rack to find a controlling set, and then performing subsequent dynamic analyses with the controlling set, has been used for other plants (e.g., Salem Generating Station and Fort Calhoun).
- d. Figures 11.1 through 11.3 show the comparison of the three (3) components of four (4) individual regenerated response spectra from the four (4) corresponding SSE artificial time-histories with the design target spectra. Please note that SRP Section 3.7.1 only requires that the average calculated response spectra generated from the multiple time-histories to envelop the design response spectra. The response spectra calculated for each individual time-history need not envelop the design response spectra.
- e. Table 11.1, shows that the set-2 SSE time-history resulted in the maximum, support-pedestal force, the maximum, rack, top-corner displacements, and the maximum stress factors.
- f. The controlling SSE and OBE, digitized, artificial, time-history data are provided on an attached 3.5-inch computer diskette (Attachment 2). The format is 6E11.5 with acceleration in "g" units at 0.01 second intervals. The 1.1 amplification factor (see (b) above) is not included in these time-histories and is applied in the dynamic analyses.

Table 11.1					
MULTIPLE TIME-HISTORY ANALYSIS RESULTS					
		Maximum Single Foot Load, 10 ³ lbs	Top Corner Displacement , Inch	Stress Factor	
				Above Baseplate	Support
SSE	SET 1	123	0.10	0.117	0.236
	2	142	0.12	0.145	0.266
	3	125	0.10	0.121	0.228
	4	137	0.10	0.142	0.206
OBE	1	106	0.07	0.090	0.151
	2	111	0.10	0.097	0.188
	3	106	0.08	0.096	0.157
	4	109	0.09	0.093	0.152
SRV	1	58.3	0.005	0.013	0.074
	2	58.2	0.006	0.013	0.074
	3	58.8	0.006	0.013	0.075
	4	58.6	0.006	0.013	0.075
LOCA	1	60.7	0.004	0.016	0.077
	2	62.0	0.005	0.016	0.079
	3	62.4	0.005	0.017	0.079
	4	59.3	0.005	0.015	0.076

Question #12

The staff is aware that you have generated two additional sets of artificial time histories for Safety-Relief-Valve (SRV) and Loss-of-Cooling-Accident (LOCA) analyses. Yet, a single time history was used for the analyses. Justify the use of the single time history, and indicate whether the single time history used is the most conservative time history among the artificial time histories generated.

Response to Question #12

The similar multiple time-history approaches were used for Safety-Relief-Valve (SRV) and Loss-of-Cooling-Accident (LOCA) analyses. Refer to response to Question #11 above for additional justification. The final analyses reflect use of the controlling SRV and LOCA sets for the combination SSE+SRV+LOCA. Note that responses from SRV and LOCA alone are a very small fraction of the responses from the SSE.

Question #13

Tables 6.7.3 and 6.7.9 show the results of two single-rack analyses. All conditions (rack dimension, friction, loading, etc.) for the two analyses are identical except for the assumption of the motion modes (out-of-phase and in-phase motions). Displacements at top corner (0.78 inch) and baseplate corner (0.07 inch) of the rack are predicted for the in-phase motion case (Table 6.7.9), but no rack-to-rack impact is predicted. However, rack-to-rack impact is predicted for the out-of-phase motion case (Table 6.7.3) even though smaller displacements at top corner (0.15 inch) and baseplate corner (0.02 inch) of the rack are predicted. Discuss the factors attributable to such phenomenon.

Response to Question #13

In single rack analyses, the motion of adjacent racks is unknown. Therefore, different assumptions were made for the adjacent rack motion for the purpose of bounding design. The "out-of-phase" motion assumes that all the racks adjacent to the rack being analyzed move opposite to the rack being analyzed. This assumption maximizes the propensity for rack-to-rack impacts. The "in-phase" motion assumes that all racks adjacent to the rack being analyzed move in the same direction; therefore, no rack-to-rack impacts are possible. These two (2) opposite assumptions usually provide bounding rack support loads which are applicable to the structural integrity evaluation. With the "in-phase assumption", the beneficial effects of fluid coupling are minimized, while with the out-of-phase assumption, fluid coupling effects are maximized.

Question #14

A whole pool multi-rack (WPMR) analysis (Table 6.8.1) shows a large displacement of 3.079 inches at rack top, but no rack-to-wall impact. However, a single rack analysis (Tables 6.7.2 and 6.7.52) shows a small displacement of 0.1628 inch, but rack-to-wall impact. Discuss the factors attributable to such phenomenon, and provide a rationale for concluding that these results are accurate and reasonable.

Response to Question #14

A careful review of the archive documentation and the associated computer files identified typographical errors in summary Tables 6.7.2, 6.7.51, and 6.7.52 of Attachment 2 of our January 14, 1994 submittal, in which a rack-to-rack impact spring was misread as a rack-to-wall spring. Therefore, the 25.5 lbs maximum rack-to-wall impact force reported is actually a rack-to-rack impact load. A review of all relevant outputs confirms that no rack-to-wall impact occurs from any of the results of single rack analyses. Revised tables showing the corrected information will be provided at a later date.

In summary Table 6.8.1, the largest rack top displacements (i.e., 4.874 inches) were predicted for Rack #3 (i.e., the existing Control Rod Blade (CRB) rack), from the WPMR analyses. No single rack analysis was done for the CRB rack. Generally, the WPMR analyses results for the Holtec racks are comparable to those obtained from the single rack analyses.

The bounding values obtained from both analyses are considered in subsequent structural integrity evaluation.

Question #15

The results of a WPMR analysis (Table 6.8.1) indicate that larger displacements of the structure are due to the SSE loading, and not by the combined SSE+SRV+LOCA loading. Discuss the factors attributable to such phenomenon, and provide a rationale for concluding that these results are accurate.

Response to Question #15

In the cases of SSE+SRV+LOCA, three (3) sets of time-histories, representing the SSE, SRV, and LOCA controlling loading, were applied concurrently to simulate the event combination. The SRV and LOCA events are a small fraction of the SSE event and serve to slightly alter the acceleration time-history. The real-time interaction of the three (3) events may result in smaller or larger dynamic responses for some parameters than those produced by an individual event. However, the combination case has demonstrated bounding dynamic results on the rack support pedestal load, and rack-to-rack impact forces (see Table 6.8.1 of Ref. [1]).

Question #16

Table 6.7.52 shows the results of the analysis for the computer run da3sslo1.rf8 with a friction coefficient of 0.8. However, Table 6.7.1 shows that a friction coefficient of 0.2 was used for the same computer run. Similar discrepancies have been noted for Tables 6.7.54, 6.7.56 and 6.7.58. Clarify these discrepancies.

Considering the facts that a coefficient of friction is one of the important parameters in numerical (DYNARACK) analysis, and similar discrepancies are found in the submittal (i.e., inconsistent magnitudes of coefficients of friction in Tables 6.7.1, 6.7.56, and 6.7.58), we request that you check whether the coefficients of friction were accurately used in the analyses and proper results are presented in the tables and applicable figures.

Response to Question #16

A careful review of the archive documentation and computer files indicate typographical errors in Table 6.7.1. The correct Coefficient of Friction for the affected runs are listed below:

<u>Run I.D.</u>	<u>Coefficient of Friction</u>
da3sslo1.rf8	0.8
da3ssli1.rf8	0.8
dc2sslo1.rf8	0.8
dc2ssli1.rf8	0.8

No conclusions based on the analyses have been affected by the typographical errors.

Question #17

With respect to the reinforced concrete spent fuel pool (SFP) structural analysis, we request that you submit for staff review the following:

- Provide the largest magnitude of the hydrodynamic pressure distribution along the height of the rack and pool wall during the fluid and rack interaction for each case of the 3-D single and WPMR analyses.
- Provide the magnitude of the hydrodynamic pressure used in the SFP concrete wall analysis. If you used a hydrodynamic pressure that is smaller than the peak (largest) hydrodynamic pressure of the DYNARACK analyses, justify the use of the smaller dynamic pressure as an acceptable conservative approach.
- State if an analysis that utilizes the peak dynamic pressure would not alter the calculated safety margin of 1.01 for the East Wall with respect to the shear strength evaluation (Table 8.3) and the safety margin of 1.09 for the West Wall with respect to the bending strength

evaluation (Table 8.2). If they alter the margins, provide the revised margins. Also, discuss their implications.

- d. The staff anticipates that a smaller safety margin could be predicted if an analysis is carried out with the maximum dynamic pressure, different analytical methodologies, parameters (e.g., material properties), or assumptions (e.g., boundary conditions, load factor, etc.). Provide the input and output of the pool structural analyses (manual methods and ANSYS analyses) for the pool slab, the steel beam embedded in the pool slab, and the four walls. Also, provide the results for the upper, middle and lower sections of the walls for all four different critical loading conditions. Further, provide the physical dimensions, the reinforcement areas, and their locations for further staff review. Key technical assumptions considered should be discussed in details.
- e. Provide the temperature profiles with magnitudes used for the pool's slab and walls analyses.
- f. The submittal (pages 8-10) does not present any analysis of the post-tensioned girder when subjected to the SSE loading. Indicate whether or not the SSE loading was considered in the post-tensioned girder analysis. Provide the results of the girder analysis for the SSE loading case.
- g. Describe the procedure(s) used to check and maintain adequate tension force in the tendons of the post-tensioned girders. Indicate whether tendon surveillance and test reports are available for staff audit.
- h. The results of some of the rack analyses show that the SSE loading is more critical than the combined SSE + SRV + LOCA loading. Therefore, larger rack displacements and impact forces, and larger dynamic water pressure are induced due to the SSE loading rather than by the combined SSE + SRV + LOCA loading. Indicate whether or not you have observed a similar phenomenon from the SFP analyses. It appears that you used 0.61g and 0.58g as the SSE loading and the combined SSE + SRV + LOCA loading, respectively, for the SFP analyses (page 8-4 of the submittal). Indicate whether the calculated safety margin of 1.01 for the East Wall (shear strength evaluation Table 8.3) is based on the combined SSE + SRV + LOCA loading. If it is, then state the safety margin of the East Wall for the SSE loading. Further, provide and discuss the results of the SFP analysis for the SSE loading.

Response to Question #17

- a. In the current version of DYNARACK, the effects of fluid coupling forces on the magnitude of the rack force and moment resultants (needed for evaluation of primary stresses in the spent fuel rack) are computed at each instant; however the individual hydrodynamic pressures are not archived in the Code. Developing a detailed articulation of the pressure distribution would require additional coding and program modification. The Code is presently configured to provide only the average hydrodynamic pressure, as a function of time, because only spatial averages are required in the fuel pool structural integrity evaluation if an ACI static evaluation is used.
- b. The following hydrodynamic pressures were used in the analysis:

Load Cases	Effective Static Pressure Calculated, psi		Bounding Effective Static Pressure Applied in Pool Structural Analysis (psi)
	E-W Walls	N-S Walls	
SSE+SRV+LOCA	± 5.14	± 7.31	± 10
SSE	± 5.10	± 7.41	± 10
OBE	± 4.16	± 5.49	± 8

The structural analysis method used for the LGS SFP is the classical "static" approach wherein all time varying loads are replaced by their static equivalents. The static method does not take credit for the fluctuation of the input loadings in the time domain, which the "time-history" method does. Consistent with the analysis technique applied, it is appropriate to use the equivalent static pressure from the fluid coupling effects. Using the dynamic peak would call for a similar consideration on the allowable section strengths, which are permitted to be increased, in accordance with the American Concrete Institute's ACI-349, to account for dynamic effects.

- c. We consider that treating the loadings as fully time-varying functions and performing a dynamic analysis would exhibit larger margins of safety than those obtained from the static analysis. This observation is based on Holtec's experience with dynamic analysis of fuel pools at other Boiling Water Reactors (BWRs) (e.g., Quad Cities, Units 1 and 2, Oyster Creek, and Grand Gulf, Unit 1), all licensed using dynamic analysis procedures. Such an analysis is not deemed necessary for LGS in view of positive margins demonstrated by the more conservative "static" analysis.
- d. The response to this question is based on discussions with NRC representatives during a telephone conversation on June 8, 1994, between NRC, PECO Energy, and Gilbert Commonwealth representatives. As a result of this conversation, the NRC requested that we provide information relative to the issues identified below.
 - 1. Description of spent fuel pool structures including an explanation of the support mechanism for the pool slabs.
 - 2. Key assumptions.
 - 3. Material properties.
 - 4. Tabulation of reinforced concrete wall and slab dimensions and reinforcing steel quantities.
 - 5. Description of the pool girders.
 - 6. Description of embedded steel beams in pool slab.

7. Description of boundary conditions used in the finite element analysis.
8. Discussion of torsional effects with regard to seismic response of the overall structure.

Each of these eight (8) items are discussed in the following.

1. DESCRIPTION OF SPENT FUEL POOL STRUCTURES

The SFPs are located inside the Reactor Buildings in an elevated position. An isometric view of the Unit 1 SFP, reactor well and dryer/separator pool is shown in Figure 17.1. This figure also represents the extent of the ANSYS finite element model which is used to evaluate the SFP structure.

Inside plan dimensions of the SFPs are 26'-6" by 45'-0". The east and west cross walls provide most of the vertical support for the spent fuel pool bottom slab. The north and south walls are post tensioned reinforced concrete girders that support the east and west cross walls of the SFP as well as a large portion of the refueling floor and the dryer/separator pool.

The post-tensioned pool girders bridge over the primary containment structure without intermediate supports. Each unit has a pair of girders. Each girder spans approximately 162 feet and is 6 feet thick. The maximum girder depth is 46 feet at the supports and reduces to 26 feet at midspan where the girder straddles containment. The ends of the girders are supported by concrete pilasters. Additional information is provided in response to item 5 below.

The SFP pool floor is a reinforced concrete slab 6'-0" thick. Eight (8) wide flange steel beams (i.e., W30x99) are partially embedded in the slab. They span east to west across the pool with the bottom flange at the underside of the pool slab elevation. These beams were originally intended to support the wet concrete weight. Additional information is provided in response to item 6 below.

The east and west cross walls of the SFPs are conventional reinforced concrete construction. These walls act as deep beams spanning in the north to south direction between the pool girders. The east wall is 5'-6" thick. The upper portion of the west wall is 4'-6" thick and the lower portion is 5'-0" thick. Most of the vertical loading on the pool slab is transferred to these walls which in turn carry the load to the pool girders.

The walls and floor of the spent fuel pool are lined with a stainless steel liner. This liner serves only as a water tight boundary, and is not a structural member. Steel embedments are provided in the pool walls and floor to attach the liner to the pool structure. Monitoring trenches are provided behind the liner for detecting and collecting any leakage. Any leakage is directed to the liquid radwaste system. Individual liner plates are connected with full penetration welds.

2. KEY ASSUMPTIONS AND APPROXIMATIONS

The key assumptions and approximations used in the spent fuel pool structural evaluations are as follows.

- a. LGS, Units 1 and 2, are symmetrically similar. Therefore, Unit 1 was investigated in detail. The results of the investigation are valid for both Units 1 and 2.

- b. The total number of fuel storage locations for standard fuel is 3970 fuel cells with the possibility of a future rack holding 196 cells.
- c. Bottom reinforcing bars in the North/South direction will not be used in calculating the flexural capacity of the pool slab. These bars do not penetrate the webs of the embedded W30 beams in the slab. The flexural capacity for moments creating tension in the bottom of the slab will be based on the reduced height of the slab above the beams.
- d. The top of the pool slab consists of 6-3/4" of fill concrete. This thickness will be ignored for strength considerations but will be included as dead weight.
- e. The bottom of the pool slab consists of steel decking. The 4-1/2" of concrete within the metal decking will not be considered for strength considerations but will be included for dead weight.
- f. For this safety investigation it was conservatively assumed that no bond forces exist between the partially embedded W30x99 beams and the SFP slab. Therefore, composite action is conservatively neglected.

3. MATERIAL PROPERTIES

a. Concrete

Design Compressive Strength, $f'_c = 5000$ psi
Elastic Modulus, $E_c = 3.61 \times 10^6$ psi
Poisson's Ratio, $\mu = 0.17$

b. Reinforcing Steel

ASTM A615, Grade 60
Yield Stress, $F_y = 60$ ksi
Elastic Modulus, $E_s = 29,000$ ksi

c. Structural Steel

ASTM A36
Yield Stress, $F_y = 36$ ksi
Elastic Modulus, $E_s = 29,000$ ksi
Poisson's Ratio, $\mu = 0.30$

4. KEY STRUCTURAL ELEMENT DATA SUMMARY

A tabulation of the thicknesses and reinforcing steel in each of the major structural elements of the SFP is given below.

<u>Structural Element</u>	<u>Thickness (inches)</u>	<u>Other Dimensions</u>	<u>Reinforcement</u>
West Wall	60 (Below EL. 326")	Height = 46'-0" Length = 45'-0"	Vert. - #10 @ 9" E.F. Horiz. - 4 rows of #11 @ 9"
	54 (Above EL. 326")		
East Wall	66	Height = 46'-0" Length = 45'-0"	Vert. - #10 @ 6" E.F. Horiz. - 5 rows of #11 @ 9"
Spent Fuel Pool Bottom Slab	72	Width (E-W) = 26'-6" Length (N-S) = 45'-0"	E-W - #18 @ 9" (Top) 2 rows of #11 @ 9" (Bottom) N-S - #10 @ 18" (Top, Middle and Bottom)
North/South Girders	72	Height = 46'-0" Length = 161'-6"	Post Tensioned Tendons #11 @ 9" Each Way, Each Face

NOTE: Refer to Figure 17.1 for Structural Element locations.

5. FUEL POOL GIRDER DESCRIPTION

There are two post-tensioned, fuel-pool girders in each unit. These girders support the spent fuel pool and other water-filled cavities above the containment and the floors of the Reactor Building. The girders and the containment are structurally separated from each other except for temporary construction supports. The post-tensioning of the Unit 1 and Unit 2 girders were performed separately and from the exterior ends only. The girders are Q-listed, Seismic Class I structures.

a. Fuel Pool Girder Details

Refer to LGS UFSAR Figure 3.8-53 and Figure 3.7-18 (see Figures 17.2 and 17.3).

Length = 161'-6"
Thickness = 6'-0"
Depth = 46'-0"

NOTE: Girders are notched to allow clearance with containment walls. At notch location, depth of girder is 26'-0".

b. Fuel Pool Girder Materials

(1) Concrete

The compressive strength of girder concrete at prestress transfer (f'_c) shall be not less than 5000 psig.

NOTE: Based on compressive tests performed at 28 and 90 days, and the American Concrete Institute's ACI-318-71, Section 4.2.2.1, an increased f'_c equal to 5100 psi can be used.

(2) Prestressing Steel

Prestressing steel shall be fabricated from wires or strands in continuous lengths without splices. For vertical tendons, the subcontractor has the additional option of using bars. The material shall conform to the following:

- Wires shall be cold-drawn, stress-relieved prestressing wires meeting the requirements of American Society of Testing and Materials (ASTM) A421 Type BA, having guaranteed minimum ultimate tensile strength of 240,000 psi.
- * Strands shall be seven-wire, stress-relieved prestressing standards meeting requirements of ASTM A416, having guaranteed minimum ultimate tensile strength of 270,000 psi, based on the nominal steel area of the strand.
- * NOTE: Prestressing steel used for all tendons fabricated with strands.

Reinforcing bars shall be smooth high-tensile strength alloy bars meeting the requirements of Section 50-1.05 of Standard Specifications of California Division of Highways, having guaranteed minimum ultimate tensile strength of 160,000 psi. Each bar shall be individually proof tested during the manufacturing process to 87% of the guaranteed minimum ultimate tensile strength, and subsequently stress-relieved by heat treatment to produce the required physical properties and a uniform metallurgical structure.

(3) Placement of Tendons

- Refer to Figure 17.4

6. EMBEDDED STEEL BEAM DESCRIPTION

- Eight (8), W30x99, steel beams embedded in SFP slab; oriented in the east to west direction at 5'-9" spacing.
- Top of Slab (TOS) Elevation 308'-9-7/16".

- Decking laid on beam's bottom flange to support wet concrete weight.
- Refer to SFP Plan (see Figure 17.5).

7. BOUNDARY CONDITIONS

A 3-D isometric view of the ANSYS finite element model is provided in Figure 17.6. The model encompasses the entire LGS Reactor Enclosure Unit 1 superstructure above EL. 306'-0" within the confines of the north and south pool girders. In other words, all major walls and slabs located between the two (2) pool girders and between EL. 306'-0" and EL. 352'-0" are included in the model.

As described in items 1 and 5 above, the Unit 1 pool girders span approximately 162 feet from Column Line 14.1, at the exterior wall of the building, to Column Line 23, at the center line between Unit 1 and Unit 2. The walls and pilasters at these column lines provide the vertical support for the girders. No other intermediate supports exist.

Boundary conditions used in the ANSYS finite element model are applied at the ends of the girders. Refer to Figure 17.6 which shows an isometric view of the pools and girders which illustrate the boundary conditions described below. Note that no external restraints are applied to the spent fuel pool slab since it is an integral part of the overall model.

ANSYS FINITE ELEMENT MODEL - BOUNDARY CONDITION SUMMARY

<u>Location</u>	<u>Restrained Degrees of Freedom</u>
Column Line 14.1 EL. 306'-0"	Vertical and North/South translation
Column Line 23.0 EL. 306'-0"	Vertical, East/West and North/South translation
Column Line 23.0 EL. 352'-0"	East/West translation
Bottom edge of pool girders at EL. 313'-0"	North/South translation
Top edge of pool girders at EL. 352'-0"	North/South translation

8. TORSIONAL EFFECTS

A copy of the LGS Reactor Enclosure Structure seismic analysis model is shown in Figure 17.3. This comprehensive model, in which both Unit 1 and Unit 2 structures are represented, was used to evaluate torsional effects due to eccentricities of mass and rigidity as part of the original seismic design of the plant. Results of those studies have shown that torsional effects are negligible. As can be seen from the referenced sketch, the building is approximately symmetrical and effects of eccentricities are inherently accounted for in the analyses.

- e. The SFP structural surface temperatures were calculated for each wall using one-dimensional, heat-transfer model at locations as shown in Figure 17.7. The calculations for the design basis condition were done based on the lower bound LGS Reactor Building temperature of 65°F and the higher bound SFP bulk water temperature of 145°F.

During a postulated loss-of-cooling accident, the SFP water temperature will reach the boiling point. The water saturation point increases as the corresponding water depth increases due to a higher pressure. Figure 17.8 shows the water boiling point profile as a function of water depth.

The LGS cask pool is adjacent to the SFP. There is a 4'x24' steel weir gate separating the two (2) SFPs. Right before a refueling outage, the spent fuel bundles stored inside the SFP have decayed for at least two (2) years. Therefore, the decay heat and the associated pool water temperature can be treated as steady state functions. To maximize the temperature gradient across the wall separating the SFP and the cask pool, the bulk water temperature of the cask pool is assumed to be the steady state bulk water temperature of the SFP, which was calculated to be 109°F.

The resultant temperature profiles for the pool's slab and walls used for the structural analyses are shown in Table 17.1.

Table 17.1				
RESULTS FOR WALL TEMPERATURE PROFILE				
Location # (See Figure 17.7)	Location Description	SFP Water Temp. (°F)	Waterside Concrete Surface Temp. (°F)	Airside Concrete Surface Temp. (°F)
1-4	N/S Walls Normal	145	144.99	85.22
1	N/S - Slab (El. 312'-0" , Boiling	251.5	251.47	104.69
2	N/S-13'-3" Level (El. 326") Boiling	240	239.98	102.73
3	N/S-25'-5" Level (El. 338'-2") Boiling	228	227.98	100.67
4	N/S - 38'-3" Level (El. 351') Boiling	212	211.98	97.86
5-8	East Wall Normal	145	144.99	86.30
5	East Wall Boiling Slab Level	251.5	251.47	106.89

Table 17.1 (continued)				
RESULTS FOR WALL TEMPERATURE PROFILE				
Location # (See Figure 17.7)	Location Description	SFP Water Temp. (°F)	Waterside Concrete Surface Temp. (°F)	Airside Concrete Surface Temp. (°F)
6	East Wall Boiling 13'-3" Level	240	239.97	104.82
7	East Wall Boiling 25'-5" Level	228	227.97	102.63
8	East Wall Boiling 38'-3" Level	212	211.98	99.66
11-13	West Wall Top (Normal) (4.5' Thick)	145	144.99	88.92
9-10	West Wall Bottom (Normal) (5' Thick)	145	144.99	87.52
9	West Wall Slab (Boiling)	251.5	251.47	109.4
10	West Wall 13'-3" Level Boiling (5' Thick)	240	239.97	107.20
11	West Wall 13'-3" Level Boiling (4.5' Thick)	240	239.97	109.96

Table 17.1 (continued)				
RESULTS FOR WALL TEMPERATURE PROFILE				
Location # (See Figure 17.7)	Location Description	SFP Water Temp. (°F)	Waterside Concrete Surface Temp. (°F)	Airside Concrete Surface Temp. (°F)
12	West Wall 25'-5" Boiling	228	227.97	107.47
13	West Wall 38'-3" Boiling	212	211.97	104.09
14-17	East Wall at Cask Pit (Normal)	145/109 *	144.98	109.02
14	East Wall at Cask Pit Boiling at Slab	251.5/109 *	251.48	109.02
15	East Wall at Cask Pit Boiling @ 13'-3"	240/109 *	239.98	109.02
16	East Wall (Cask Pit) Boiling @ 25'-5"	228/109 *	227.98	109.02
17	East Wall (Cask Pit) Boiling @ 38'-3"	212/109 *	211.98	109.02
18	Slab (Normal Condition)	145	144.99	77.11
18	Slab (Boiling)	251.5	251.47	88.97

- f. The structural evaluation of the post-tensioned girders was performed on both a global and local basis. The global evaluation was performed utilizing the results of the original design calculations in which all loading combinations listed in the LGS UFSAR and Design Assessment Report (DAR) documents were considered. Only the controlling loading combinations were evaluated with respect to the global response of the girders in the new structural evaluation. These controlling loading combinations were identified from the stress margins reported in the original design calculations.

The controlling loading combination for the global response of the girders is Load Case 5 shown on Page 8-10 of Attachment 2 of our January 14, 1994 submittal. This case utilizes the Working Stress Design (WSD) method for reinforced concrete with the OBE seismic loads. The resulting safety margin for this load case is 1.05 as shown in Table 8.2 of our January 14, 1994 submittal.

* SFP/Cask Pit

In addition to the global evaluation, local areas of the girders in the vicinity of the spent fuel pool were evaluated for shear and moment using the results of the new finite element analysis. The controlling loading combination used for these local checks is as follows.

$$U = 1.0(D) + 1.0(L) + 1.0(E') + 1.0(T_a) + 1.0(SRV) + 1.0(LOCA)$$

Note: $E' = SSE$

The resulting limiting safety margins for shear and moment are 1.08 and 1.18, respectively.

- g. The post-tensioned fuel pool girders have grouted tendons, which do not allow the monitoring of the tension force in the tendons. The post-tensioning system and the tests performed on the system are described in LGS UFSAR Section 3.8.3.6
- h. The SFP structure has been conservatively analyzed using the worst case loading condition for SSE or SSE+SRV+LOCA. Equivalent static loads representing the structure self weight, including the mass of the water in the pools, are always greater for the combined loading of SSE+SRV+LOCA versus SSE alone. This condition is not true for the equivalent, static rack loads.

The procedure used to establish the equivalent static design loads representing the rack/structure interface forces included several conservatisms. These conservatisms are summarized as follows.

- a. The peak dynamic force from the rack reaction force time history supplied by Holtec is used as the equivalent static rack interface force applied to the pool structure.
- b. The larger of the results from either the SSE or the SSE+SRV+LOCA loading conditions for the racks is used.
- c. The larger of the two (2) horizontal equivalent static design rack interface forces, North/South or East/West, is used in both horizontal directions.
- d. The equivalent static rack interface loads are factored by 1.1 to obtain the design loads.

This conservative approach ensures that the worst case seismic loading conditions have been considered in the structural evaluations of the SFP. The resulting design loads are summarized in the tables below. Underlined/bolded values are used in the SFP structural evaluation. Note that SSL = SSE + SRV + LOCA.

VERTICAL RACK LOAD SUMMARY

Rack Total Dead Load	=	2854200 lbs
(1.1) OBE/Dead	=	<u>0.74</u>
(1.1) SSE/Dead	=	<u>1.18</u>
(1.1) SSL/Dead	=	1.15

HORIZONTAL RACK LOAD SUMMARY

<u>Load</u>	<u>Direction</u>	<u>Peak Force Maximum</u>	<u>(Lbs) Minimum</u>	<u>Design Force* (Lbs)</u>
OBE	E/W	839332	-867944	<u>954738</u>
	N/S	675563	-855284	940812
SSE	E/W	1579906	-1319639	1737897
	N/S	2276953	-2103556	2504648
SSL	E/W	1507420	-1216140	1658162
	N/S	2436031	-2425800	<u>2679634</u>

* Design Force = (1.1) [Maximum Absolute Value of Max/Min Force]

Question #18

Describe how the structural responses (axial and shear stresses, moments and deflections) of three components (two horizontals and one vertical) of an earthquake motion are combined in the single and WPMR analyses.

Response to Question #18

The structural response of a system (i.e., either a single rack, or any one of the racks in the WPMR simulation) is obtained from the time-history of the displacement degrees-of-freedom appropriate to each model. Since the seismic event has the three earthquakes applied simultaneously, the resulting displacement time-histories automatically include the proper effects of each individual seismic direction. That is, there is no need to postulate any artificial addition of component responses. The net section forces and moments in the cellular region (i.e., above the baseplate) and in the pedestal region (i.e., below the baseplate) are represented in terms of springs which are proportional to displacements. Therefore, the appropriate section forces and moments are also computed as functions of time and automatically contain the effects of all three (3) directional earthquakes. Once the force/moment time-histories are available, the limiting combination of forces and moments are checked against the allowable permitted by American Society of Mechanical Engineers (ASME) Code, Section NF. The methodology does not require any "addition" of directional components since the effects of all simultaneous seismic forces are automatically incorporated.

Question #19

Explain how the numerical analyses (single, multi-rack, and pool) account for the torsional effects when subjected to the SSE loading.

Response to Question #19

In the single rack analysis, there are two (2) degrees-of-freedom which describe the rotation of the rack base and the rack top about a vertical axis through the centroid of the rack. The driving forces which lead to either a rigid rotation or to an elastic rotation come from offset fuel loading and/or net moments arising from the individual friction forces at the base of the pedestal. That is, if the

rack tends to rotate about either or both horizontal axes, then the different frictional forces can cause the rack to also rotate about the vertical. DYNARACK automatically captures this behavior and the subsequent response in both single and multi-rack simulations. With respect to the pool structural analysis, there are no localized torsional moments applied at the base of the pedestals; therefore, the pool input forces consist of vertical and horizontal forces at the pedestal locations.

Torsional effects with respect to the seismic response of the LGS Reactor Enclosure Building had been evaluated as part of the original seismic design and were found to be negligible. See the response to Question #17d for additional descriptive information regarding the structural configuration of the SFPs and their positions within the Reactor Enclosure superstructure.

Question #20

Discuss how the proposed platform was considered in the rack analysis. Also, discuss the effects of the inclusion of the platform in the rack modelling upon its controlling responses.

Response to Question #20

The platform is first analyzed statically to determine its load carrying capacity and its stiffness characteristics. For subsequent dynamic analysis, the platform was assumed to be in place on rack E2 (Rack #2) and Rack B3 (Rack #14). Each platform was assumed to have a mass appropriate to its loaded configuration.

The platform was modelled as an additional six (6) degree-of-freedom mass located at the top of the rack. The platform is "connected" to the rack by compression-only springs at the four cells where the platform legs are located. This allows for the potential of the platform to "rattle" and lift up. The mass properties and stiffness properties of the platforms were developed using separate finite element analyses and then input into DYNARACK.

Only WPMR analyses are run with platforms in place to ensure that the interactions are completely captured. Simulations were performed using the three controlling seismic events SSE2, SSL2, OBE2. A comparison of results with and without platforms indicated that the racks with platforms generally had increased movements, while adjacent racks had the same or decreased movements. No changes in structural integrity conclusions were required when the platforms were in place. That is, margins are sufficient to ensure that addition of a platform does not compromise rack safety.

Question #21

Commit to perform a post-OBE rack inspection and, as needed, to restore the rack gaps to their design configurations. Discuss the plan and the procedure for implementing this inspection.

Response to Question #21

PECO Energy commits to incorporate, into the appropriate plant procedure, steps to measure the inter-rack and rack-to-wall gaps at pre-selected points (control locations) following an OBE event. These control location gaps will be compared with the as-installed gaps measured and recorded on the "as installed" print after completion of the rack installation.

In the event that the gaps are found to have changed, PECO Energy will either analytically evaluate and demonstrate the continued acceptability of the altered gap size, or restore the gaps to their original as-built values (i.e., within +/- 1/8 inch tolerance). If analytical evaluations are used, and upon completion of these evaluations, a safety evaluation will be performed in accordance with the requirements of 10CFR50.59.

RADIATION PROTECTION

Question #22

Describe whether the rerack of the SFPs will be performed with water in the pools or with the pools dry.

Response to Question #22

The reracking operation will be performed with water in the SFP. The Unit 2 SFP will be reracked first. To facilitate the reracking activities in the Unit 2 SFP, the existing spent fuel in the Unit 2 SFP will be transferred to the Unit 1 SFP for temporary storage. To ensure that adequate storage capacity is available in the Unit 1 SFP to accommodate all of the spent fuel onsite at LGS (i.e., Unit 1, Unit 2, and Shoreham fuel) six (6) of the existing spent fuel storage racks will be relocated to the Unit 1 SFP. Transferring all of the spent fuel to the Unit 1 SFP will permit the Unit 2 reracking operation to be performed with the pool completely filled with water and fuel removed.

Question #23

Your letter dated March 22, 1994, indicates that you want to perform the rerack of Unit 2 pool after all fuel is moved to the Unit 1 pool and the Unit 2 pool is drained. Provide the procedure for this activity.

Response to Question #23

The Unit 2 SFP will not be drained. The reracking operation will be performed with water in the SFP, and all spent fuel will be relocated to the Unit 1 SFP for temporary storage during the reracking activities. Procedures will be in place to cover all aspects of the reracking operation.

Question #24

Describe how the old racks will be decontaminated (i.e., under water (hydrolazed) or after being removed from the pool). Also, describe the potential of creating airborne radioactive material (ARM) and methods, equipment to control ARM to keep worker/public doses ALARA.

Response to Question #24

The spent fuel storage racks will first be rinsed with demineralized water. An underwater survey will then be performed on the racks to ascertain radiation/contamination levels. Hydrolazing will be considered, as necessary, if these levels are greater than 1R/hr in order to satisfy Department of Transportation (DOT) shipping requirements.

Question #25

If the reracking is to be performed in a full water pool, describe:

- a) If reracking activities will be performed using remote operations.
- b) If the licensee will use divers during any operations. If so, indicate commitment to the guidance provided in Appendix A to Regulatory Guide 8.38, "Control Access to High and Very High Radiation Areas in Nuclear Power Plants," for the protection of divers, or provide detailed equivalent procedures and controls.

Response to Question #25

Reracking activities will be performed remotely, as much as possible. During the removal of the racks constant Health Physics coverage will be available. Continuous air sampling will be performed in order to monitor airborne radioactivity levels. We do not anticipate using respiratory protective devices for personnel, since the racks will be completely out of the water for only a short duration and airborne radioactivity levels are not expected to increase. However, contingency arrangements will be in place to ensure that the racks do not dry out during removal/disposal.

We do anticipate using divers in the SFP during the reracking operation. PECO Energy commits that the diving operation will be conducted in accordance with an existing plant diving procedure which incorporates the guidance delineated in Regulatory Guide 8.38, "Control Access to High and Very High Radiation Areas in Nuclear Power Plants," for the protection of divers.

The personnel exposure during the removal/disposal of the racks will be maintained As Low As Reasonably Achievable (ALARA). We estimate personnel radiation exposure to be approximately 0.1 man-rem.

Procedures will be in effect at the time of the rerack operation which contain appropriate radiological control hold points.

Question #26

If the reracking is to be performed with the pool dry, describe:

- a) What precautions will be taken to minimize worker doses from airborne radioactive material concentration during decontamination activities (e.g., close capture devices).
- b) Any fuel defect or hot particle problems that the licensee has experienced in the past, and their impact on the proposed activity.
- c) The process followed to perform required Total Effective Dose Equivalent (TEDE) ALARA evaluations, and to what extent personnel will be wearing respiratory protection.
- d) How the licensee will ensure that airborne effluent concentrations from potentially elevated airborne levels will be maintained ALARA, consistent with 10 CFR Part 50, Appendix I requirements.
- e) What controls or processes will be used to prevent particulates on the walls or pool floor from resuspending and becoming airborne (e.g., wall sprays.)

Response to Question #26

The reracking operation will be performed with water in the SFP, and all fuel removed. Therefore, additional information in response to this question is not provided.

REFERENCES

- [1] Attachment 2 of the January 14, 1994 submittal, Holtec Report HI-931012, Licensing Report for Spent Fuel Storage Capacity Expansion, Philadelphia Electric Company, Limerick Generating Station.

ATTACHMENT 1

Limerick Generating Station, Units 1 and 2

**Response to Request for Additional Information
Concerning Technical Specifications Change Request No. 93-19-0
Submitted to Increase the Spent Fuel Pool Storage Capacity**

HOLTEC INTERNATIONAL

LGS SFP SLAB EL 313', SSE VT, DAMPING 3%

4 RE-GENERATED RESPONSE SPECTRA AND THE DESIGN TARGET SPECTRUM

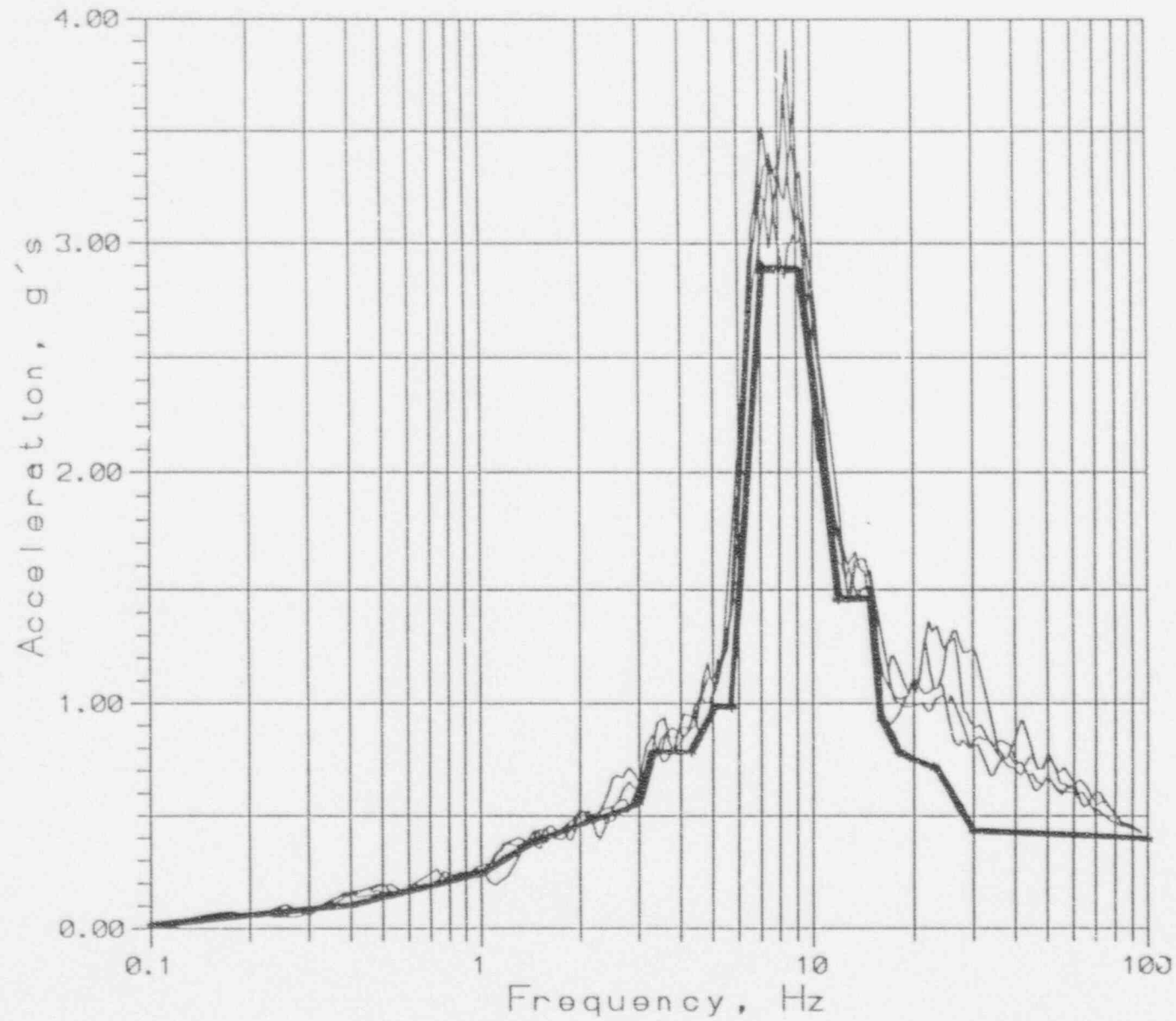


FIGURE 11.1

FIGURE 11.1

HOLTEC INTERNATIONAL

LGS SFP SLAB EL 313', SSE EW DAMPING 3%

4 RE-GENERATED RESPONSE SPECTRA AND THE DESIGN TARGET SPECTRUM

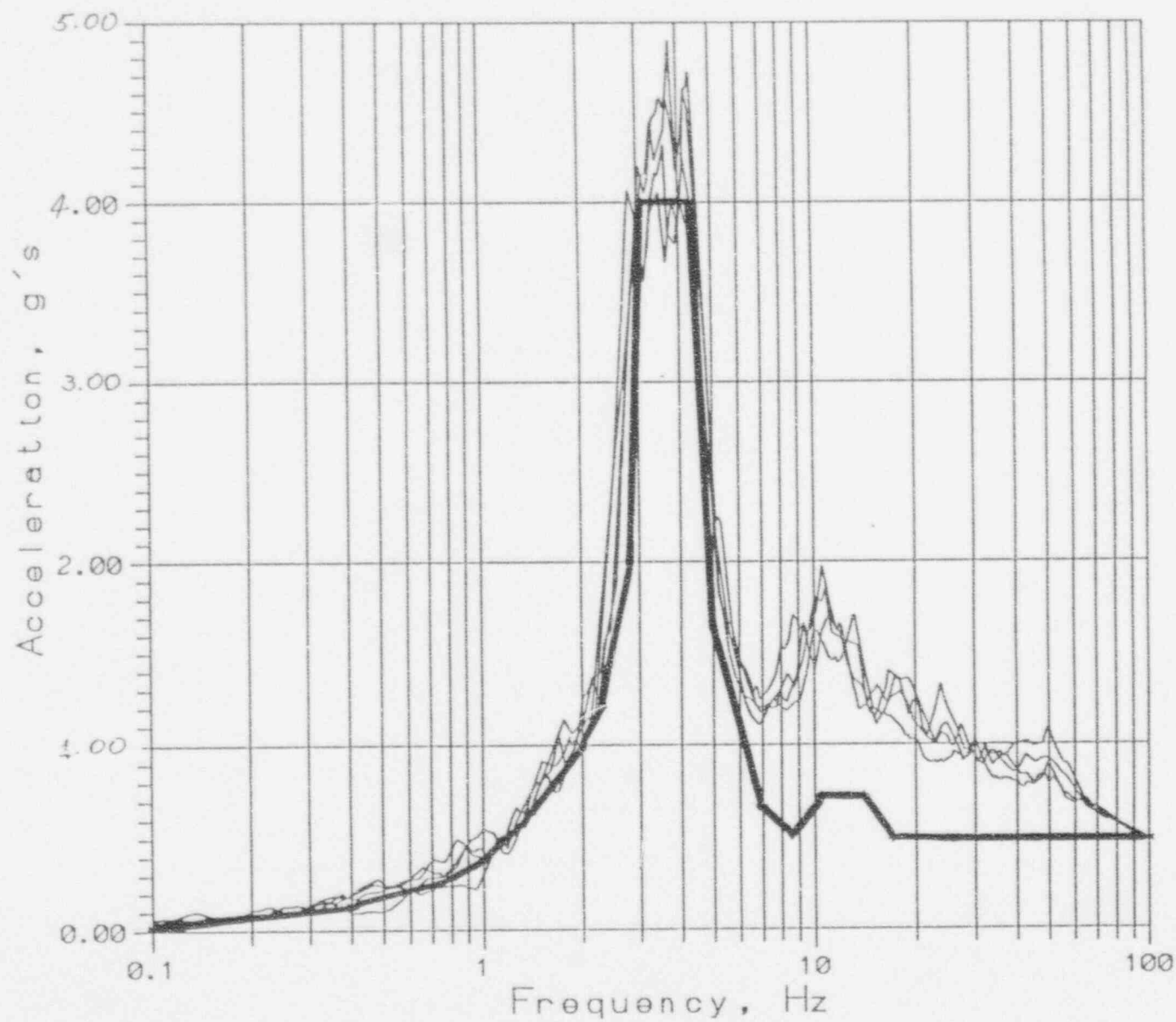


FIGURE 11.2

FIGURE 11.2

HOLTEC INTERNATIONAL

LGS SFP SLAB EL 313', SSE NS DAMPING 3%
4 RE-GENERATED RESPONSE SPECTRA AND THE DESIGN TARGET SPECTRUM

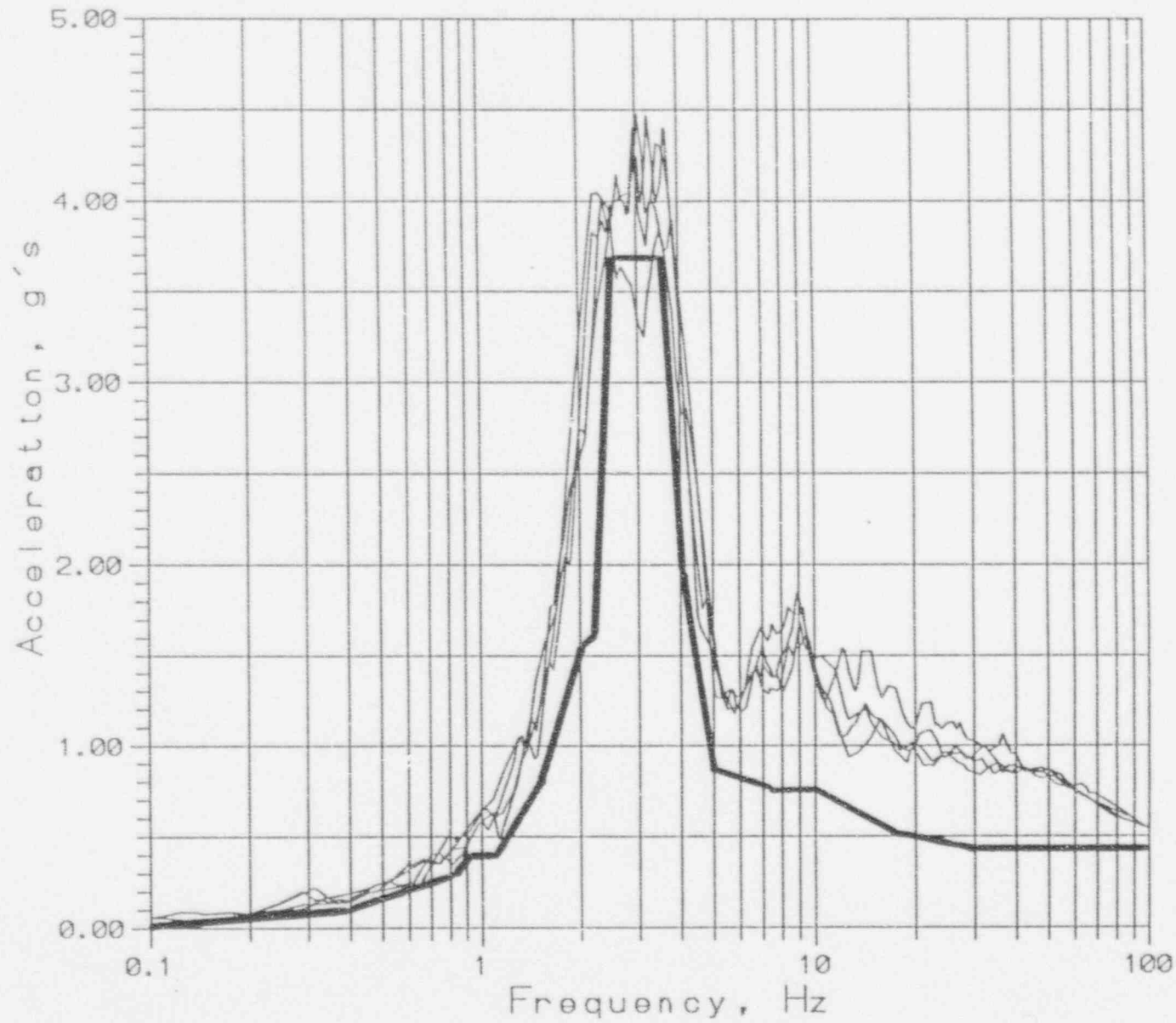
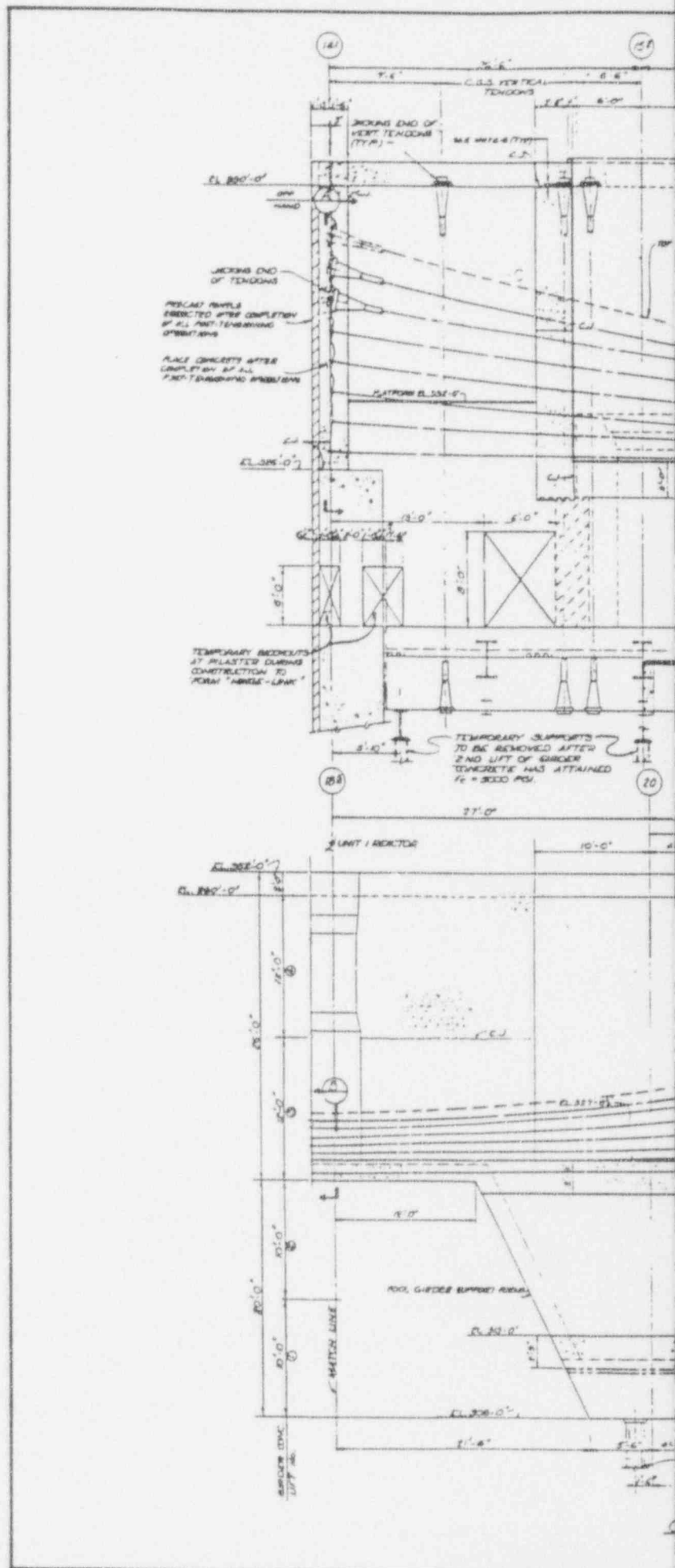
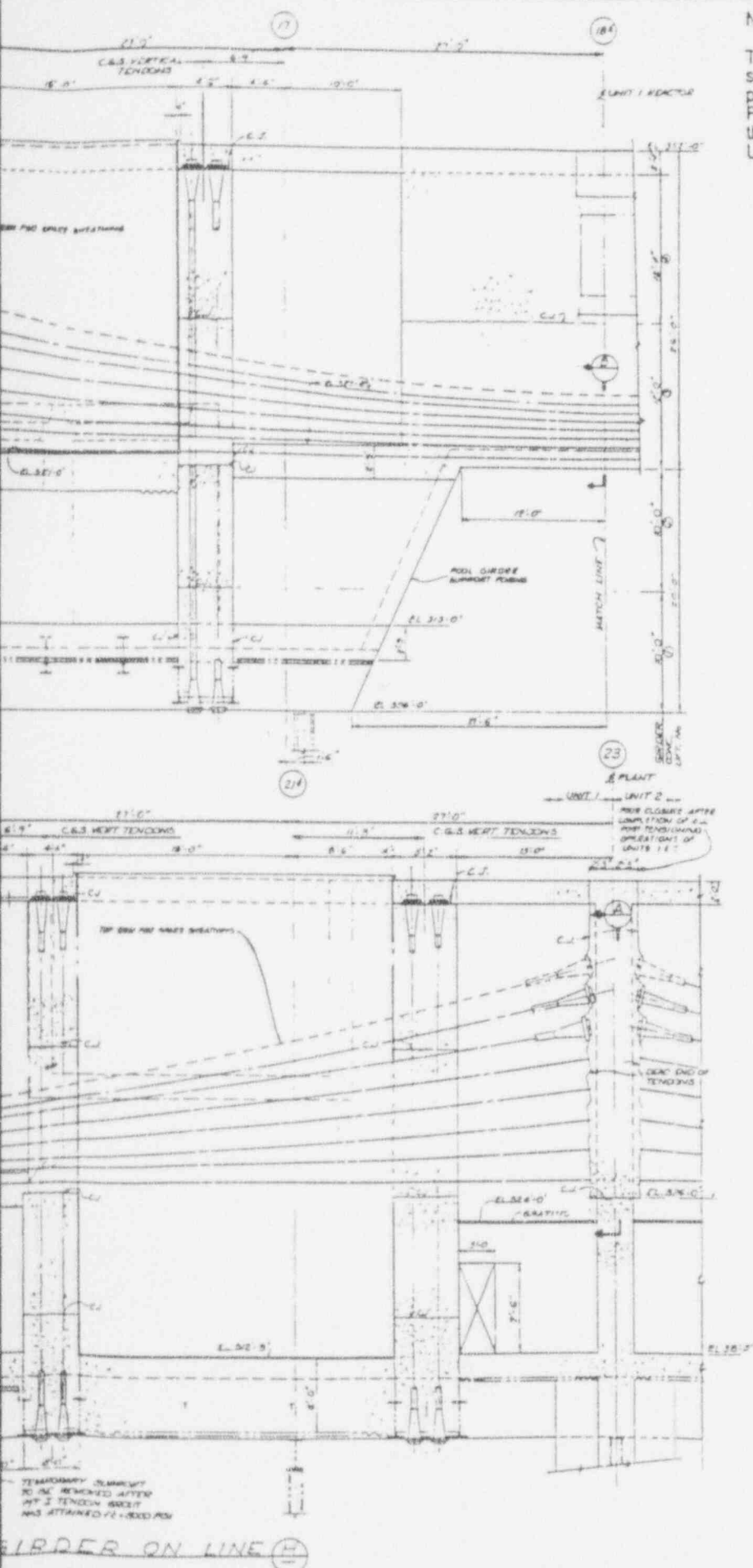


FIGURE 11.3

FIGURE 11.3

FIGURE 17.2





NOTE:

This FSAR figure is provided to delineate the primary (typical) structural concepts, arrangements, and elements relied upon to perform the safety related functions of the subject structures. For detail design features, dimensions, and as-built condition of the structures, see design drawing number(s): 8031-C-771 for Unit 1 and 8031-C-772 for Unit 2.

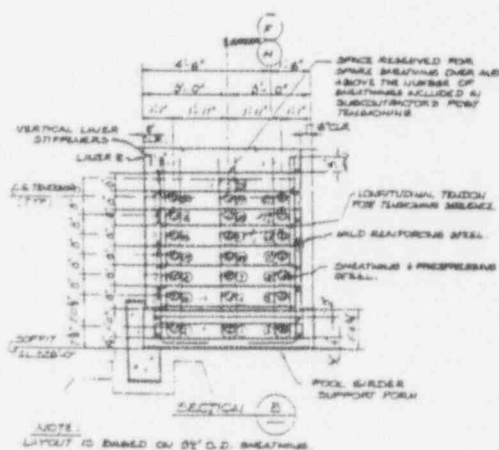
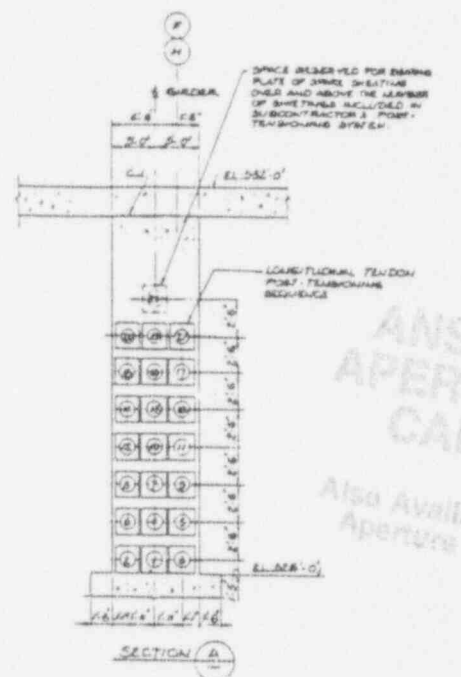


FIGURE 17.2

LIMERICK GENERATING STATION
UNITS 1 AND 2
FINAL SAFETY ANALYSIS REPORT

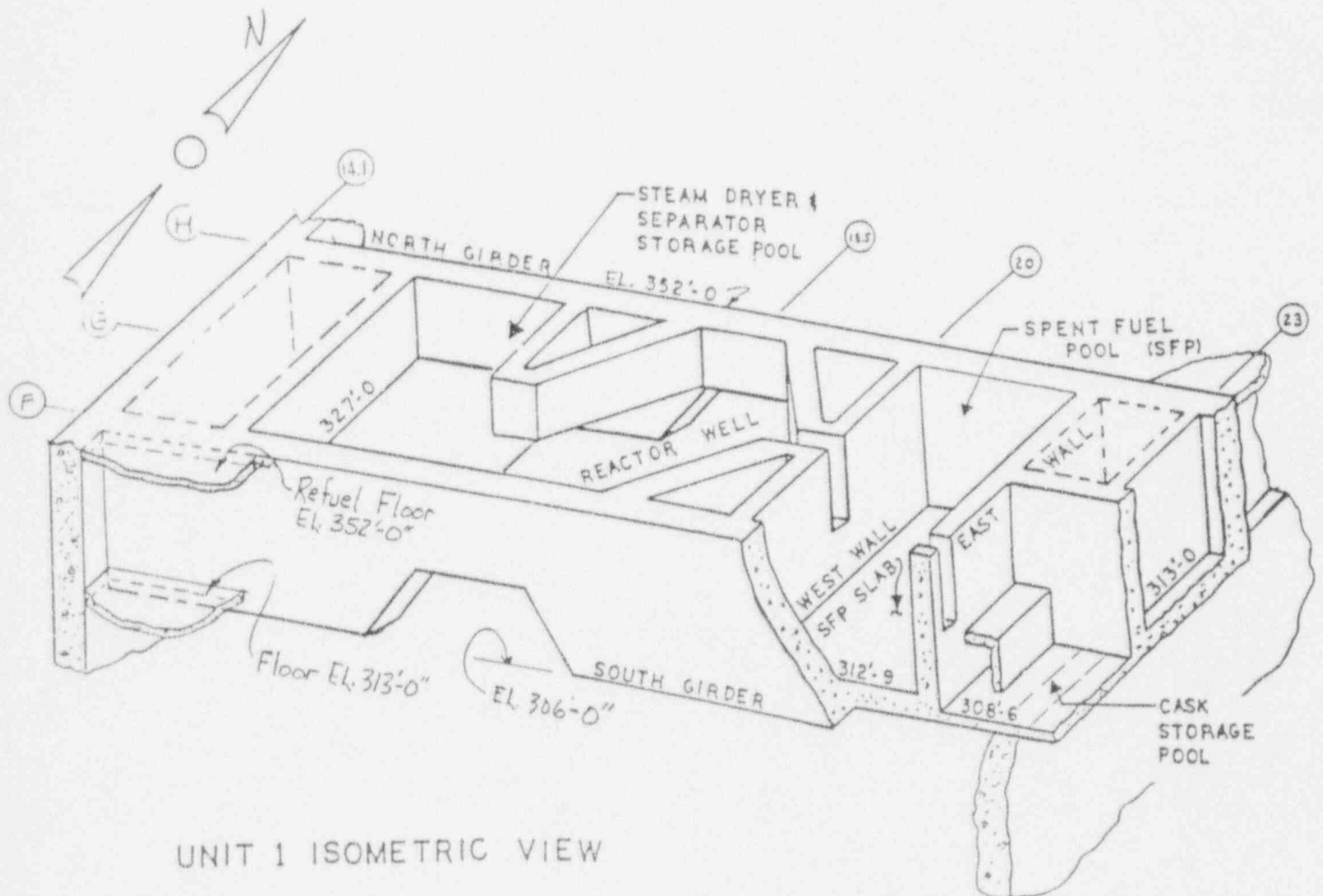
REACTOR ENCLOSURE, FUEL
POOL GIRDER

9409020195-01

PECO LIMERICK GENERATING STATION
SPENT FUEL POOL RERACK MOD 6118
RESPONSE TO NRC QUESTIONS

FIGURE 17.1

UNIT 1 ISOMETRIC VIEW



UNIT 1 ISOMETRIC VIEW

PECO LIMERICK GENERATING STATION
SPENT FUEL POOL RERACK MOD 6118
RESPONSE TO NRC QUESTIONS

FIGURE 17.3

LGS REACTOR ENCLOSURE STRUCTURE SEISMIC MODEL

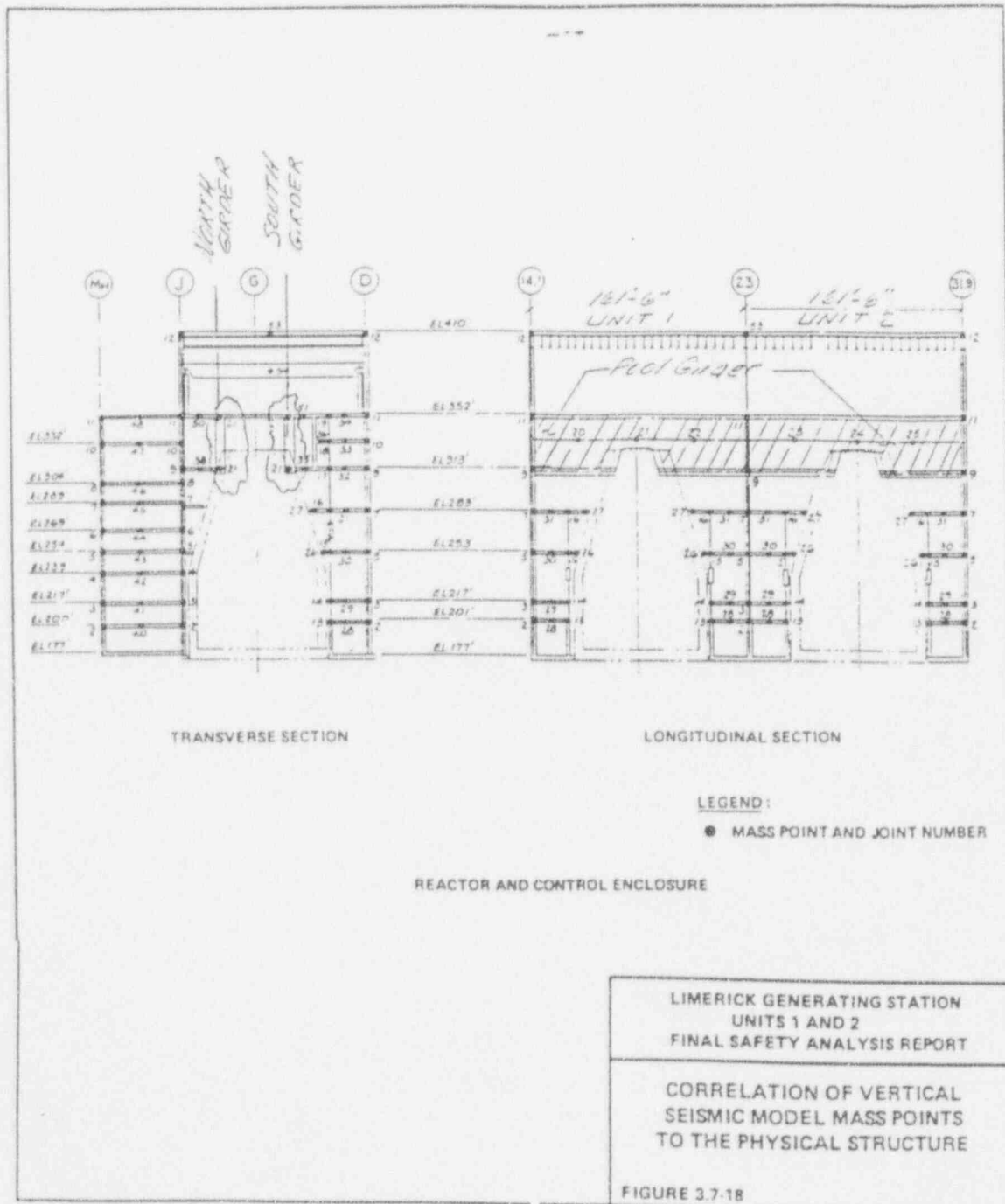
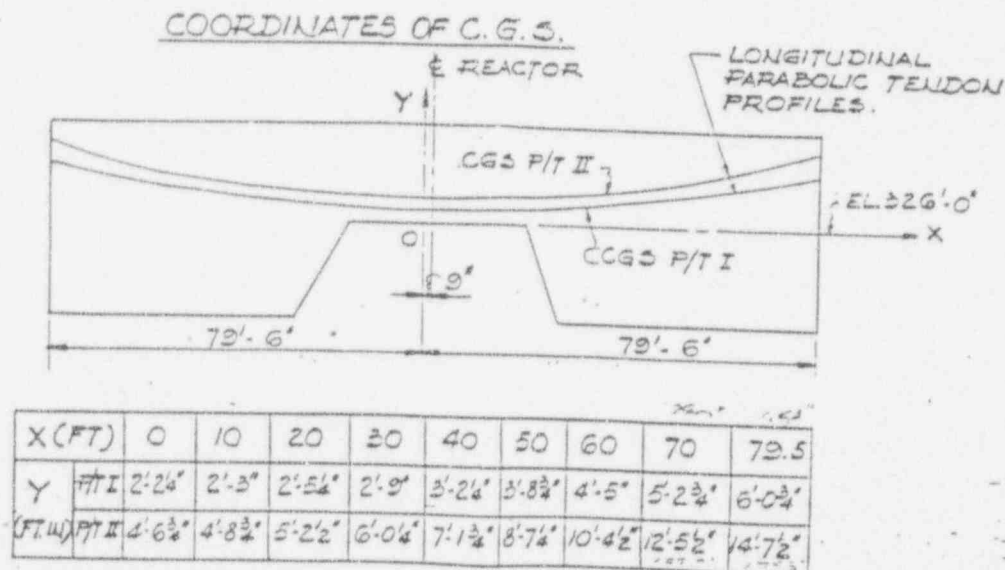


FIGURE 17.4

Placement of Tendons (Reference Drawing C-772)

Longitudinal:

TABLE II

NOTE:
THESE COORDINATES ARE REQUIRED REGARDLESS
OF NUMBER OF LONGITUDINAL TENDONS.

Vertical:

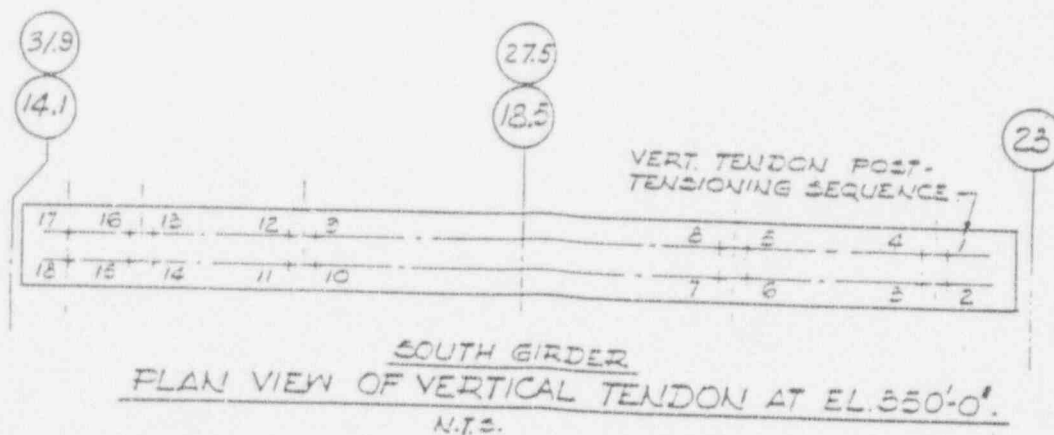


FIGURE 17.5 (Page 1 of 2)

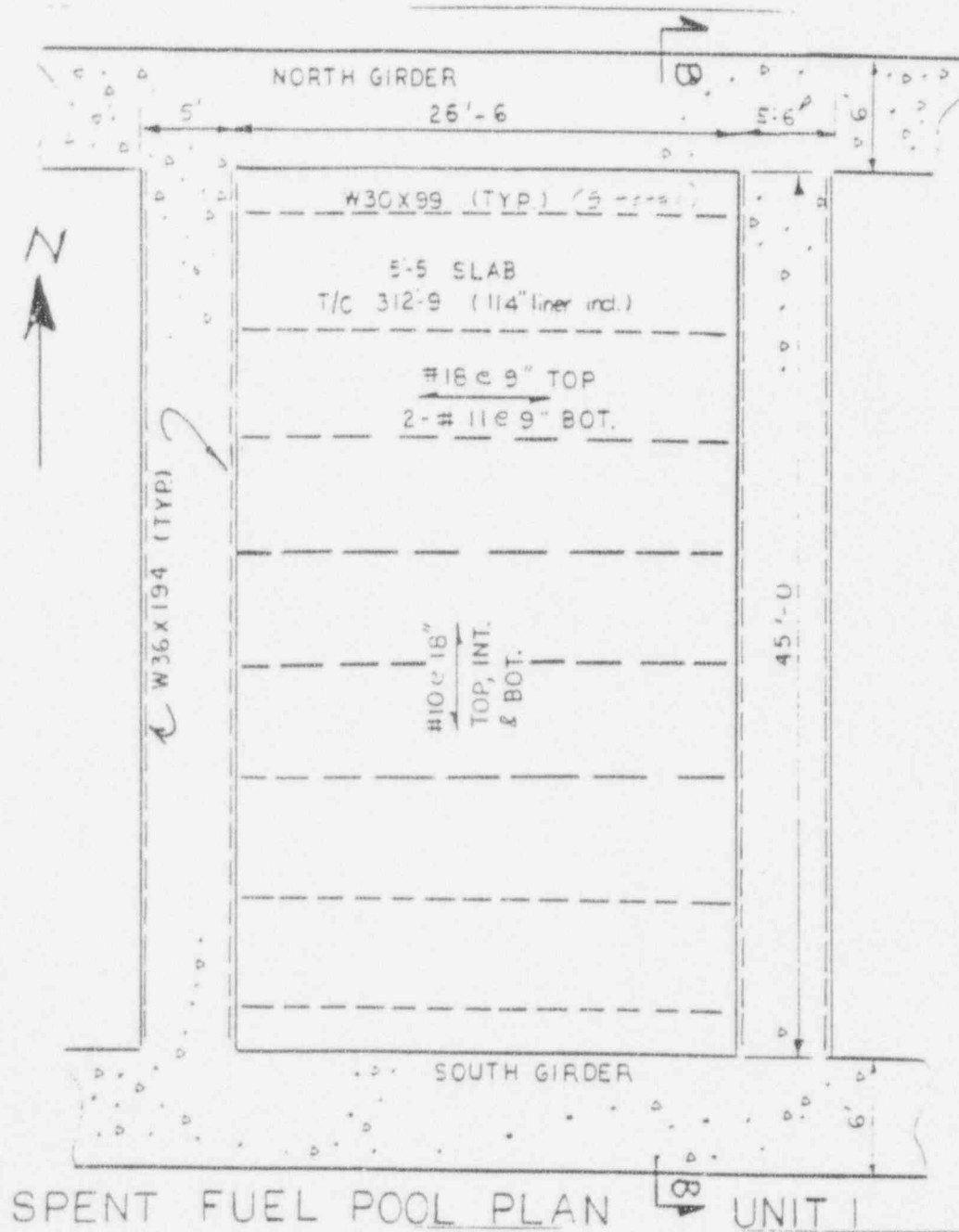
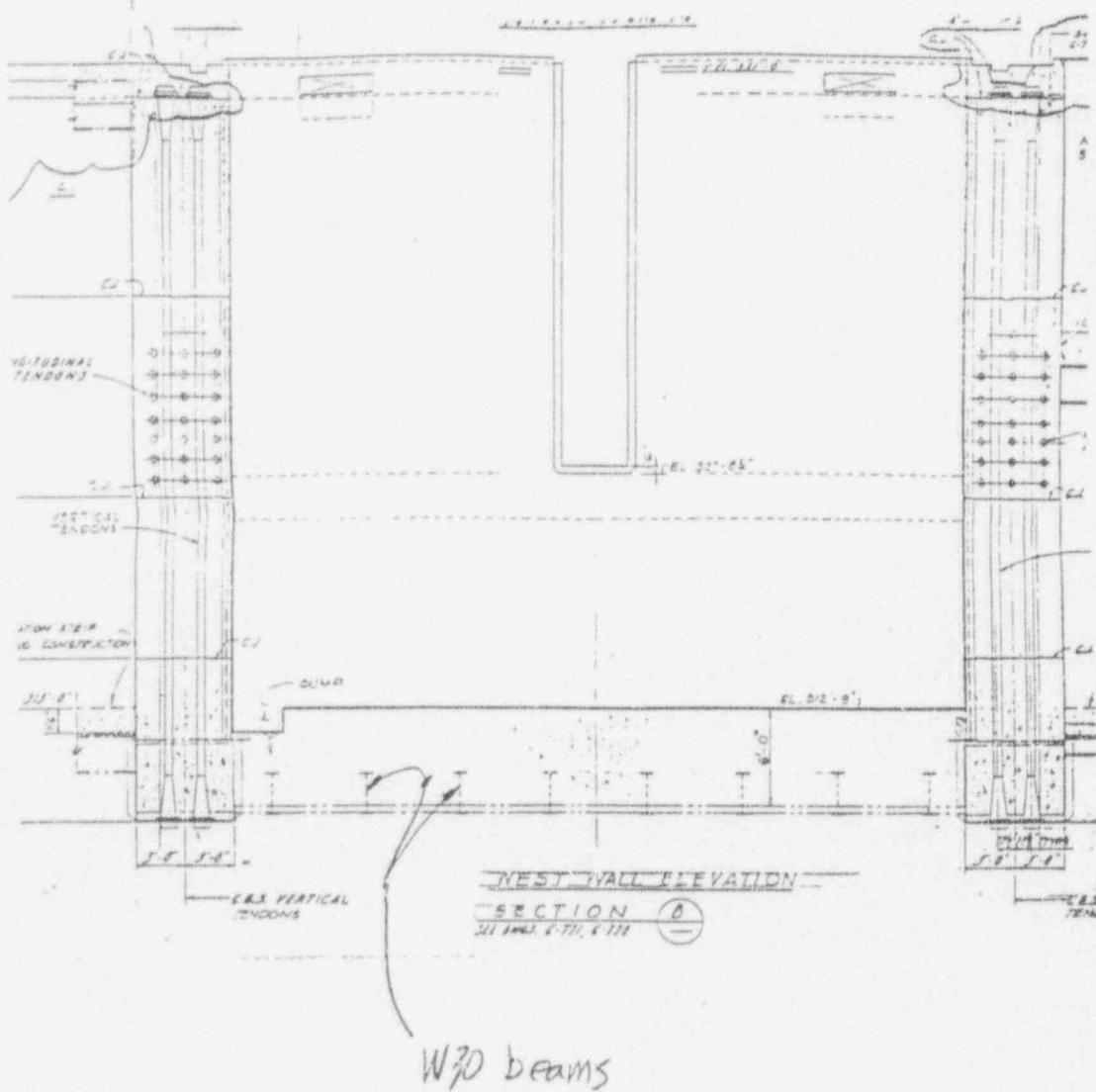


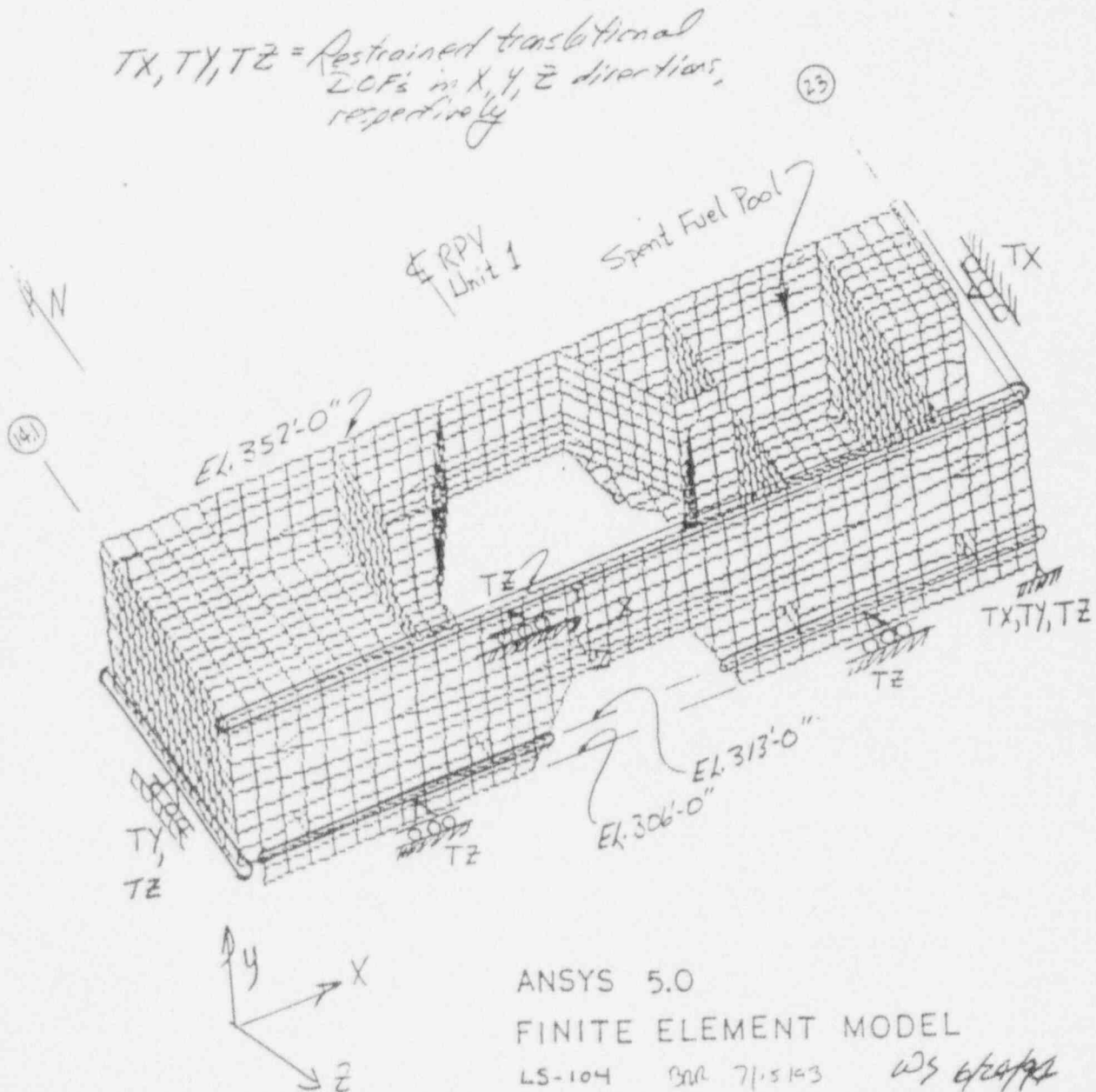
FIGURE 17.5 (page 2 of 2)



PECO LIMERICK GENERATING STATION
SPENT FUEL POOL RERACK MOD 5118
RESPONSE TO NRC QUESTIONS

FIGURE 17.6

BOUNDARY CONDITIONS



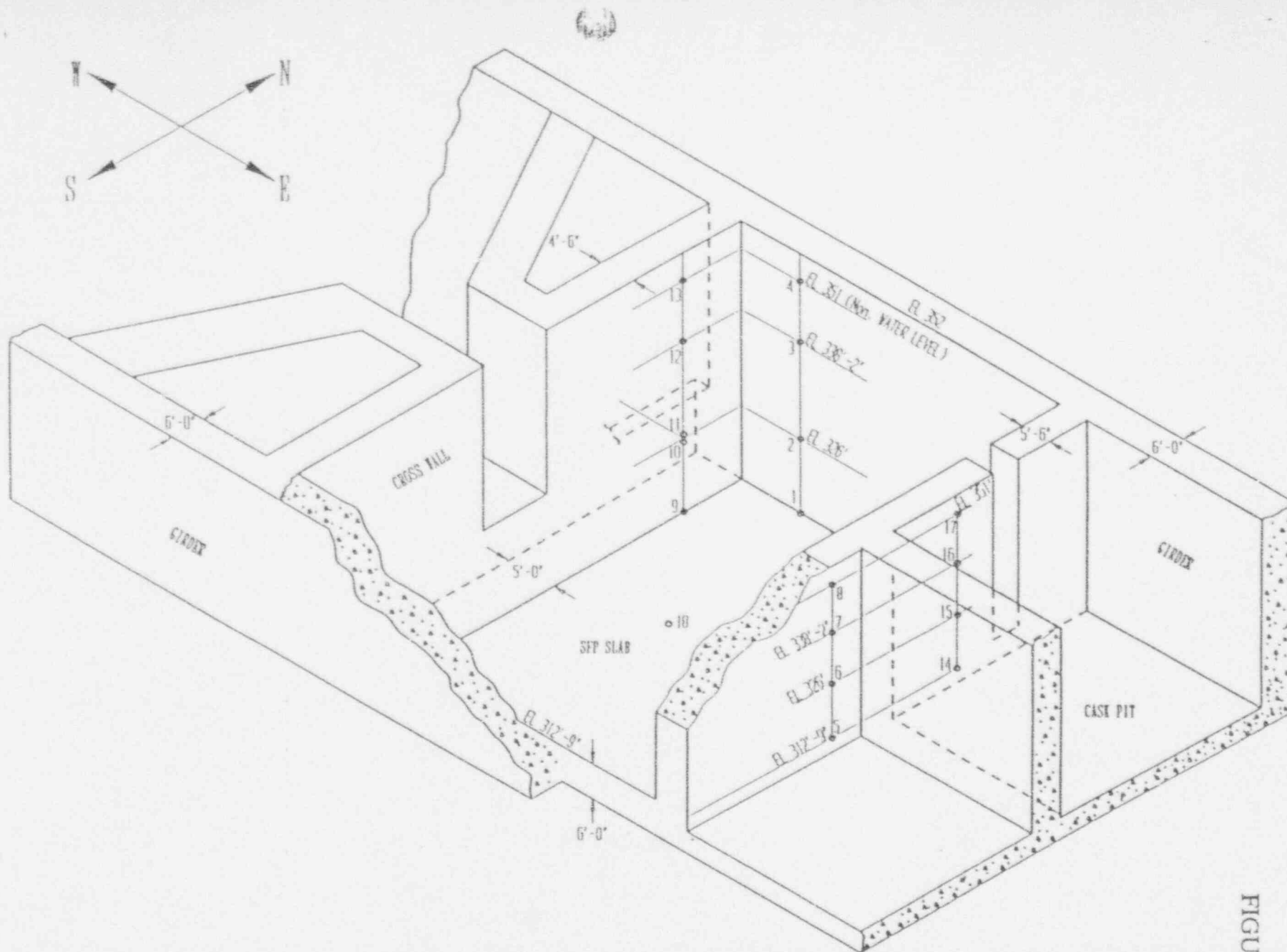


FIGURE 17.1 LOCATIONS FOR TEMPERATURE PROFILES -
LIMERICK UNIT 1 SPENT FUEL POOL

FIGURE 17.7

FIGURE 17.7

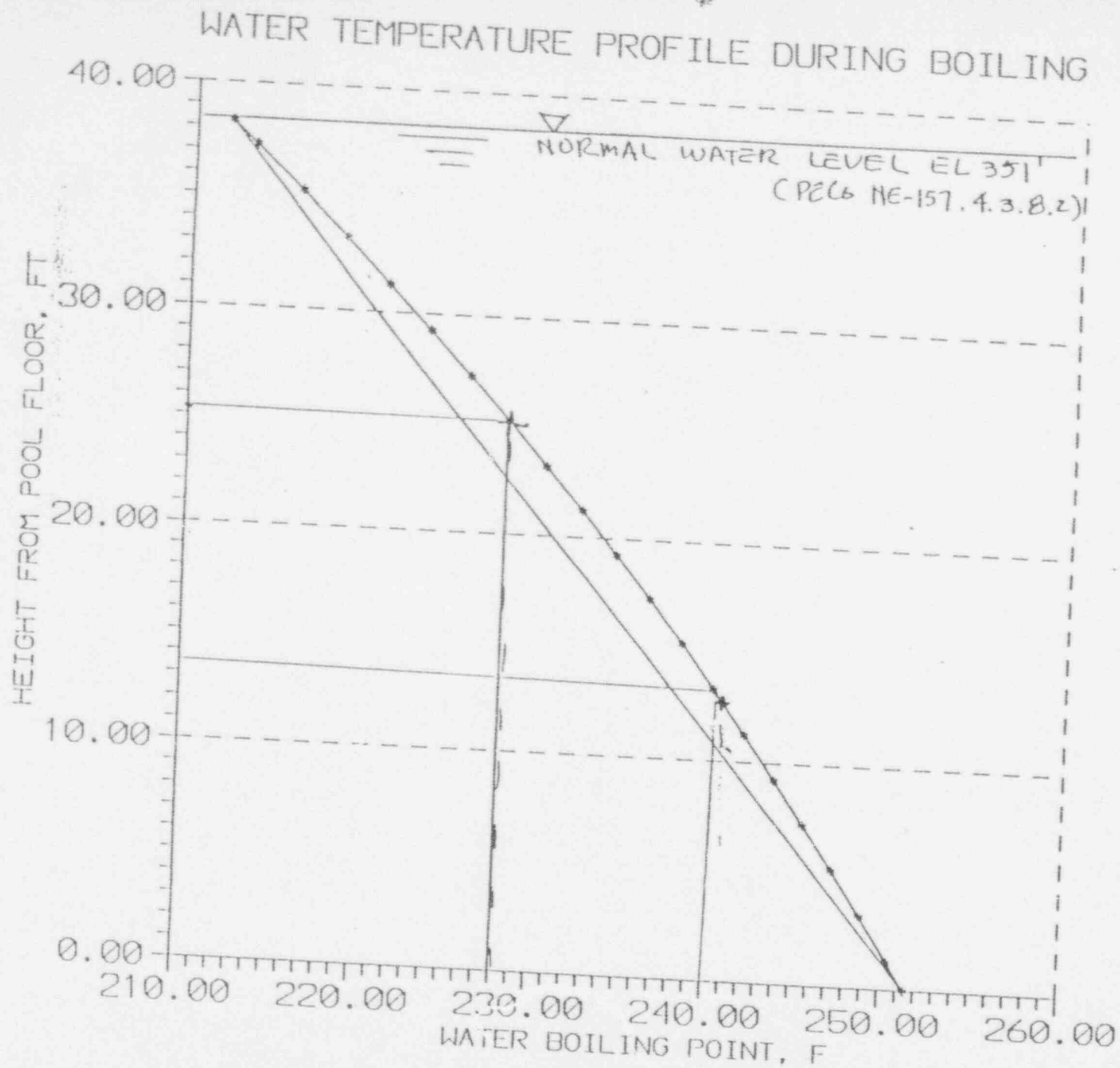


FIGURE 17.8

FIGURE 17.8

ATTACHMENT 2

Limerick Generating Station, Units 1 and 2

**Response to Request for Additional Information
Concerning Technical Specifications Change Request No. 93-19-0
Submitted to Increase the Spent Fuel Pool Storage Capacity**

SPENT FUEL POOL TIME-HISTORY DATA

August 18, 1994

Frank,

Attached is a hard copy printout of the Time-History data for the Limerick Generating Station (LGS), Units 1 and 2, Spent Fuel Pool Reracking effort requested by the NRC Document Control group. This information was previously provided on computer disk in response to the NRC's request for additional information concerning LGS Technical Specifications (TS) Change Request 93-19-0 submitted by letter dated July 14, 1994. However, the NRC Document Control group indicated that they could not process the computer disk and needed the information in hard copy format.

Therefore, we are providing you this hard copy of the Time-History data since you indicated that it was not necessary to submit the information by letter, and that you would forward the information to the Document Control group.

Thank you,

Richard Gropp
Licensing Section
PECO Energy Company

LIMERICK GENERATING STATION UNITS 1 AND 2
DOCKET NOS 50-352 AND 50-353
SPENT FUEL POOL RERACK TIME HISTORY DATA
TECHNICAL SPECIFICATION CHANGE REQUEST No. 93-19-0

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.96052E-03	.12124E-02	.19061E-02	.27109E-02	.37885E-02	.50272E-02
.60844E-02	.71374E-02	.80246E-02	.83800E-02	.77130E-02	.65101E-02
.49232E-02	.40214E-02	.16972E-02	.10086E-03	.18109E-02	.38238E-02
-.62732E-02	-.87563E-02	-.10768E-01	-.11212E-01	-.10639E-01	-.97933E-02
-.81366E-02	-.83227E-02	-.83882E-02	-.76539E-02	-.71248E-02	-.52324E-02
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.97080E-02	.10501E-01	.13503E-01	.13885E-01	.15909E-01	.15699E-01
.15463E-01	.13240E-01	.12581E-01	.11450E-01	.10061E-01	.76005E-02
.70603E-02	.76686E-02	.34025E-02	.73658E-02	.47790E-02	.36064E-02
.15281E-02	.26364E-02	.26334E-02	.63742E-02	.89496E-02	.11368E-01
.11459E-01	.17325E-01	.20921E-01	.25341E-01	.22807E-01	.26342E-01
.26904E-01	.25229E-01	.23500E-01	.18935E-01	.13158E-01	.61183E-02
.14832E-02	.73942E-02	.13032E-01	.18104E-01	.29181E-01	.35799E-01
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-.77636E-02	-.12367E-02	.12989E-01	.24088E-01	.31389E-01	.34908E-01
.36191E-01	.37713E-01	.38423E-01	.39303E-01	.35804E-01	.32675E-01
.21403E-01	.14111E-01	.39737E-02	.15638E-01	.31974E-01	.39205E-01
-.53089E-01	-.61565E-01	-.69740E-01	.73109E-01	.71296E-01	.74377E-01
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.10328E-01	.13469E-01	.28051E-01	.41324E-01	.47437E-01	.49131E-01
.49885E-01	.39959E-01	.35890E-01	.23083E-01	.12764E-01	.44853E-02
-.62611E-02	-.18780E-01	-.38946E-01	-.57117E-01	.70674E-01	.86253E-01
-.95418E-01	-.98074E-01	.90360E-01	.83971E-01	.78832E-01	.59914E-01
-.42999E-01	.35427E-01	.64726E-02	.23726E-01	.43637E-01	.70669E-01
.93778E-01	.11013E+00	.11248E+00	.12282E+00	.11967E+00	.11028E+00
.95463E-01	.89004E-01	.73261E-01	.47149E-01	.20987E-01	.46226E-02
-.20627E-01	.54120E-01	.64777E-01	.74813E-01	.85193E-01	.96399E-01
-.10156E+00	.98259E-01	.98378E-01	.95483E-01	.70068E-01	.61425E-01
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.77595E-01	.69726E-01	.62659E-01	.50202E-01	.43698E-01	.33503E-01
.23740E-01	.46212E-02	.43244E-03	.13886E-01	.23790E-01	.24910E-01
-.34821E-01	.31859E-01	.17948E-01	.22735E-01	.13176E-01	.23354E-02
.10070E-01	.25744E-01	.52143E-01	.65397E-01	.71463E-01	.82832E-01
.86589E-01	.83023E-01	.91378E-01	.80398E-01	.73844E-01	.61476E-01
.30722E-01	.17657E-01	.31661E-02	.30485E-01	.49419E-01	.70270E-01
-.82942E-01	.10563E+00	.98663E-01	.10778E+00	.92706E-01	.70520E-01
-.46210E-01	.43154E-01	.18373E-01	.66573E-02	.29869E-01	.87090E-01
.13159E+00	.15934E+00	.19060E+00	.18596E+00	.18080E+00	.19099E+00
.17417E+00	.17360E+00	.15424E+00	.11520E+00	.64301E-01	.54142E-02
-.32589E-01	.75314E-01	.12644E+00	.15784E+00	.19288E+00	.21760E+00
-.23724E+00	.23209E+00	.22228E+00	.16643E+00	.12538E+00	.79474E-01
-.67036E-01	.16926E-01	.19940E-01	.58532E-01	.12166E+00	.16605E+00
.17034E+00	.19225E+00	.18651E+00	.14491E+00	.14027E+00	.14236E+00
.12730E+00	.13872E+00	.10502E+00	.77118E-01	.58857E-01	.21256E-01
.12673E-01	.30304E-02	.18261E-01	.35757E-01	.62493E-01	.89605E-01

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-.92162E-01-.10807E+00-.11963E+00-.14776E+00-.16541E+00-.18747E+00
-.19486E+00-.17827E+00-.14987E+00-.12545E+00-.96528E-01-.76016E-01
-.48348E-01-.25444E-01.13149E-01.48095E-01.99548E-01.15210E+00
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-.10619E+00-.80361E-01-.10524E+00-.61739E-01-.43912E-01-.13170E-01
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-.30250E+00-.35906E+00-.39558E+00-.41030E+00-.42637E+00-.39325E+00
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.20556E+00.18355E+00.14868E+00.12362E+00.69283E-01.26875E-01
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.22299E-01.45236E-01.60308E-01.27867E-01.37970E-01.47902E-01
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-.20801E+00-.20511E+00-.15631E+00-.14062E+00-.12856E+00-.66698E-01
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.17728E+00	.27757E+00	.31519E+00	.36264E+00	.38196E+00	.36248E+00
.32259E+00	.27571E+00	.22233E+00	.17548E+00	.11768E+00	.51061E-01
-.19558E-01	-.73993E-01	-.12271E+00	-.14263E+00	-.19763E+00	-.17742E+00
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-.93527E-01	-.62685E-01	-.70629E-01	-.44557E-01	-.40980E-01	-.21999E-01
-.54438E-01	-.63496E-01	-.52560E-01	-.47705E-01	-.12074E-01	.49073E-01
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.35587E+00	.37329E+00	.39248E+00	.39142E+00	.35000E+00	.24690E+00
.16250E+00	.59616E-01	.27309E-01	.12680E+00	.22247E+00	.33665E+00
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.16926E+00	.96701E-01	-.81226E-02	.12683E+00	.21605E+00	.28538E+00
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-.27929E+00	-.25546E+00	-.18363E+00	-.11930E+00	-.56181E-01	.52278E-02
.80957E-01	.10882E+00	.14841E+00	.16073E+00	.16492E+00	.18581E+00
.21372E+00	.20452E+00	.19700E+00	.15382E+00	.14338E+00	.89260E-01
.68537E-01	.44941E-01	.23376E-01	.19101E-01	.64214E-02	.39422E-01
-.29204E-01	-.58404E-01	-.78450E-01	-.55016E-01	.28526E-01	.39462E-02
.37094E-01	.41372E-01	.36270E-01	.46245E-01	.57410E-01	.40796E-01
.71645E-01	.57026E-01	.29508E-01	.34022E-01	.34310E-01	.31329E-02
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-.10757E+00	-.11734E+00	-.96799E-01	-.10579E+00	.10730E+00	.10577E+00
-.99341E-01	-.61784E-01	-.30767E-01	.17945E-01	.37217E-01	.69937E-01
.54537E-01	.57059E-01	.62093E-01	.53869E-01	.51088E-01	.96339E-02
-.14041E-01	-.76248E-01	-.12667E+00	.18252E+00	.20476E+00	.20395E+00
-.20038E+00	-.18010E+00	-.17401E+00	.15858E+00	.10325E+00	.57635E-01
.14895E-01	.83727E-01	.16165E+00	.22428E+00	.24030E+00	.27436E+00
.28500E+00	.27614E+00	.24987E+00	.23096E+00	.16256E+00	.10062E+00
.23357E-01	.34790E-01	.11956E+00	.20217E+00	.26749E+00	.30219E+00
-.28814E+00	-.31422E+00	-.29582E+00	.24521E+00	.23342E+00	.16149E+00
-.99808E-01	-.13840E-01	.31228E-01	.96298E-01	.12690E+00	.14039E+00
.15018E+00	.16752E+00	.15396E+00	.14667E+00	.83360E-01	.44662E-01
-.35208E-02	-.58467E-01	-.77225E-01	-.86170E-01	.91446E-01	.76218E-01
-.77516E-01	-.38228E-01	.52766E-02	.26351E-01	.12211E+00	.15031E+00
.18811E+00	.23652E+00	.24157E+00	.24033E+00	.22394E+00	.18917E+00
.13258E+00	.10372E+00	.19358E-02	.67632E-01	.15145E+00	.26475E+00
-.32801E+00	-.35830E+00	-.38383E+00	-.36317E+00	.37269E+00	.32500E+00
-.28894E+00	-.20261E+00	-.11217E+00	.11543E-01	.11040E+00	.20404E+00
.27404E+00	.33201E+00	.38554E+00	.35679E+00	.35938E+00	.32738E+00
.28803E+00	.21530E+00	.14229E+00	.38516E-01	.73249E-01	.16932E+00
-.24603E+00	-.29716E+00	-.33467E+00	-.34556E+00	.29747E+00	.28101E+00

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-.17325E+00	-.12274E+00	-.35398E-01	.22440E-01	.11634E+00	.19030E+00
.27485E+00	.30702E+00	.37900E+00	.38472E+00	.38283E+00	.33202E+00
.25839E+00	.16984E+00	.11211E+00	.51386E-01	.55432E-02	.88260E-01
-.12733E+00	-.16318E+00	-.20011E+00	-.20473E+00	-.19391E+00	-.12385E+00
-.96908E-01	-.53010E-01	-.72429E-02	.65791E-01	.82615E-01	.10134E+00
.11013E+00	.12091E+00	.10168E+00	.86302E-01	.56260E-01	.13623E-01
-.47971E-01	-.73097E-01	-.97398E-01	.14575E+00	.14539E+00	-.17072E+00
-.12460E+00	-.10291E+00	-.80088E-01	-.47912E-01	.69240E-02	.62183E-01
.87274E-01	.14531E+00	.21766E+00	.24530E+00	.23448E+00	.21352E+00
.18988E+00	.16023E+00	.13978E+00	.13393E+00	.60221E-01	.12527E-02
-.44366E-01	-.11255E+00	-.18114E+00	-.21340E+00	-.21307E+00	-.18685E+00
-.15474E+00	-.12670E+00	-.12716E+00	-.91969E-01	.47766E-01	.19594E-01
.64690E-01	.10777E+00	.16188E+00	.18905E+00	.20565E+00	.20583E+00
.19639E+00	.15932E+00	.10147E+00	.60503E-01	.68758E-02	.52587E-02
-.82899E-01	-.13524E+00	-.17497E+00	-.22040E+00	-.24809E+00	-.28031E+00
-.25358E+00	-.22877E+00	-.15789E+00	-.12329E+00	.51855E-01	.16869E-01
.68607E-01	.14336E+00	.19495E+00	.23259E+00	.28623E+00	.28474E+00
.28313E+00	.23662E+00	.20458E+00	.17587E+00	.10551E+00	.44968E-01
-.31610E-01	-.12314E+00	-.22409E+00	-.26528E+00	-.28281E+00	-.30065E+00
-.26321E+00	-.25282E+00	-.22682E+00	-.18710E+00	.14724E+00	-.83930E-01
.90548E-02	.96613E-01	.15148E+00	.21385E+00	.23547E+00	.23907E+00
.22396E+00	.21340E+00	.18040E+00	.11859E+00	.63270E-01	.91170E-02
-.57083E-01	-.13889E+00	-.17571E+00	-.22629E+00	-.26202E+00	-.27600E+00
-.27958E+00	-.29773E+00	-.27451E+00	-.21039E+00	-.17189E+00	-.82790E-01
-.48982E-01	-.83532E-02	.48135E-01	.81364E-01	.13909E+00	.17783E+00
.19615E+00	.21714E+00	.22500E+00	.17536E+00	.15444E+00	.11289E+00
.95923E-01	.75454E-01	.14749E-01	.17349E-01	.73038E-01	.11916E+00
-.13511E+00	-.15300E+00	-.16375E+00	-.14216E+00	-.12975E+00	-.11641E+00
-.11376E+00	-.75750E-01	-.50661E-01	-.85443E-02	.68539E-01	.99037E-01
.14248E+00	.14531E+00	.16633E+00	.19217E+00	.22480E+00	.23724E+00
.24475E+00	.23264E+00	.23443E+00	.18913E+00	.15292E+00	.13838E+00
.10740E+00	.79886E-01	.75856E-01	.20188E-01	.12974E-01	.69055E-01
-.87949E-01	-.10126E+00	-.10831E+00	-.15524E+00	-.18138E+00	-.22638E+00
-.23924E+00	-.24948E+00	-.23016E+00	-.24295E+00	-.21341E+00	-.21350E+00
-.20947E+00	-.16857E+00	-.13145E+00	-.98949E-01	-.27181E-01	.14764E-01
.81823E-01	.11446E+00	.19748E+00	.21393E+00	.24414E+00	.25945E+00
.26322E+00	.25050E+00	.23605E+00	.19224E+00	.14823E+00	.12443E+00
.75951E-01	.38248E-01	.82560E-02	.59940E-01	.92318E-01	.11946E+00
-.11511E+00	-.13248E+00	-.15407E+00	-.13975E+00	-.13327E+00	-.10830E+00
-.10618E+00	-.10305E+00	-.93789E-01	-.69876E-01	-.75087E-01	-.88404E-01
-.77743E-01	-.77673E-01	-.10006E+00	-.98106E-01	-.83299E-01	-.86219E-01
-.72445E-01	-.55339E-01	-.14420E-01	.28742E-01	.67975E-01	.12264E+00
.17965E+00	.22391E+00	.25598E+00	.28134E+00	.26879E+00	.30556E+00
.27552E+00	.28073E+00	.19918E+00	.13412E+00	.51913E-01	.50497E-01
-.13225E+00	-.21498E+00	-.32377E+00	-.36708E+00	-.42720E+00	-.32102E+00
-.32360E+00	-.31679E+00	-.30148E+00	-.37006E+00	-.32462E+00	-.23499E+00
-.14255E+00	-.38724E-01	.46844E-01	.18195E+00	.27131E+00	.38033E+00
.44431E+00	.32456E+00	.34165E+00	.33752E+00	.33909E+00	.33466E+00

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.43338E+00	.35432E+00	.27518E+00	.16636E+00	.80504E-01	.21930E-01
-.10742E+00	-.18694E+00	-.21571E+00	-.25756E+00	-.28008E+00	-.29016E+00
-.26735E+00	-.23484E+00	-.17891E+00	-.91344E-01	-.27844E-01	.45252E-01
.13411E+00	.19498E+00	.23831E+00	.28493E+00	.29768E+00	.29358E+00
.28620E+00	.28675E+00	.26366E+00	.23823E+00	.17127E+00	.13855E+00
.88567E-01	.22310E-01	-.16387E-01	-.39721E-01	-.60058E-01	-.81236E-01
-.79603E-01	-.11407E+00	-.13184E+00	-.12933E+00	-.14236E+00	-.15415E+00
-.15840E+00	-.14627E+00	-.13842E+00	-.14349E+00	-.15604E+00	-.16906E+00
-.17360E+00	-.17830E+00	-.15567E+00	-.11650E+00	-.55387E-01	-.18827E-01
.38491E-01	.10873E+00	.15622E+00	.17183E+00	.25413E+00	.29841E+00
.34886E+00	.38901E+00	.39709E+00	.40029E+00	.34097E+00	.28761E+00
.23895E+00	.17225E+00	.10431E+00	.24626E-01	-.68817E-01	-.15387E+00
-.23961E+00	-.31835E+00	-.38929E+00	-.40396E+00	-.42548E+00	-.44556E+00
-.42915E+00	-.40246E+00	-.36016E+00	-.30558E+00	-.24701E+00	-.17924E+00
-.90856E-01	-.35520E-01	.39118E-01	.68762E-01	.11224E+00	.14051E+00
.18463E+00	.17601E+00	.21616E+00	.19665E+00	.16935E+00	.14242E+00
.11681E+00	.42897E-01	.75836E-02	-.11898E-01	-.54546E-01	-.73541E-01
-.13260E+00	-.17206E+00	-.18390E+00	-.22895E+00	-.24746E+00	-.24556E+00
-.24722E+00	-.25992E+00	-.21823E+00	-.19029E+00	-.16060E+00	-.12991E+00
-.96795E-01	-.31681E-01	-.22641E-02	.67362E-01	.12470E+00	.17729E+00
.23364E+00	.24824E+00	.24586E+00	.25473E+00	.20959E+00	.20476E+00
.17515E+00	.12641E+00	.68864E-01	.90562E-02	-.54028E-01	-.12671E+00
-.14927E+00	-.21014E+00	-.24373E+00	-.25956E+00	-.23533E+00	-.19739E+00
-.16288E+00	-.13512E+00	-.39832E-01	.10532E-01	.73045E-01	.12998E+00
.17065E+00	.21541E+00	.24395E+00	.27750E+00	.25502E+00	.24453E+00
.20735E+00	.15436E+00	.11437E+00	.30611E-01	-.47389E-01	-.72349E-01
-.12029E+00	-.18049E+00	-.20255E+00	-.21795E+00	-.24229E+00	-.22324E+00
-.22397E+00	-.16523E+00	-.11996E+00	-.86197E-01	-.20782E-01	.59545E-02
.39572E-01	.89923E-01	.14519E+00	.20157E+00	.21234E+00	.27272E+00
.25861E+00	.26562E+00	.21203E+00	.18285E+00	.12272E+00	.74096E-01
-.88818E-02	-.92051E-01	-.17427E+00	-.27831E+00	-.34204E+00	-.40825E+00
-.31606E+00	-.31665E+00	-.33593E+00	-.33554E+00	-.32362E+00	-.40539E+00
-.32479E+00	-.25090E+00	-.15426E+00	-.44006E-01	.65601E-01	.19031E+00
.29574E+00	.40117E+00	.31981E+00	.35152E+00	.38477E+00	.40513E+00
.39767E+00	.38546E+00	.35497E+00	.44839E+00	.34178E+00	.23617E+00
.13132E+00	.33973E-01	-.78977E-01	-.19727E+00	-.26343E+00	-.36348E+00
-.41376E+00	-.42660E+00	-.41460E+00	-.36918E+00	-.31459E+00	-.22133E+00
-.14389E+00	-.59429E-01	.30408E-01	.13963E+00	.23128E+00	.33830E+00
.38693E+00	.43101E+00	.30314E+00	.43346E+00	.39697E+00	.38780E+00
.31892E+00	.25388E+00	.17821E+00	.86177E-01	.91228E-02	.11658E+00
-.17787E+00	-.24794E+00	-.28020E+00	-.33224E+00	-.35043E+00	-.37547E+00
-.37240E+00	-.33132E+00	-.31523E+00	-.27520E+00	-.21312E+00	-.15217E+00
-.88398E-01	-.28865E-01	.17732E-01	.63081E-01	.14853E+00	.17131E+00
.22204E+00	.26330E+00	.26413E+00	.25416E+00	.26026E+00	.25554E+00
.24058E+00	.24895E+00	.23624E+00	.19805E+00	.14652E+00	.12880E+00
.70423E-01	.12872E-01	-.52118E-01	-.78823E-01	-.11392E+00	-.15152E+00
-.22382E+00	-.25261E+00	-.25759E+00	-.25395E+00	-.21641E+00	-.19998E+00
-.15782E+00	-.11060E+00	-.73617E-01	-.39758E-01	.12634E-01	.47178E-01

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.11826E+00	.15100E+00	.18395E+00	.21013E+00	.19568E+00	.17115E+00
.15015E+00	.15446E+00	.16268E+00	.11145E+00	.12244E+00	.10744E+00
.58472E-01	.43982E-01	.29526E-01	.23007E-01	.37860E-01	.69793E-01
-.10996E+00	-.95468E-01	-.13047E+00	-.13048E+00	-.18623E+00	-.21540E+00
-.25959E+00	-.27120E+00	-.26797E+00	-.23866E+00	-.21374E+00	-.20446E+00
-.16619E+00	-.11451E+00	-.11493E+00	-.47347E-01	-.13835E-01	.62027E-01
.10052E+00	.16938E+00	.17053E+00	.20624E+00	.17851E+00	.14937E+00
.15820E+00	.12415E+00	.10530E+00	.64838E-01	.30780E-01	.30156E-01
-.58962E-01	-.10575E+00	-.12409E+00	-.13953E+00	-.13311E+00	-.15254E+00
-.12870E+00	-.13348E+00	-.10716E+00	-.65280E-01	-.45949E-01	-.22455E-01
-.13680E-01	-.70910E-03	.16113E-01	.33814E-01	.58634E-01	.55632E-01
.62582E-01	.83587E-01	.26508E-01	.23421E-01	.55485E-02	.10477E-01
-.17232E-01	-.29729E-01	-.24297E-01	-.60309E-01	-.61895E-01	-.60516E-01
-.86413E-01	-.82734E-01	-.93091E-01	-.53153E-01	-.50527E-01	-.31383E-01
.70657E-02	.25509E-01	.51765E-01	.79644E-01	.12303E+00	.12945E+00
.12527E+00	.12350E+00	.10931E+00	.11397E+00	.62169E-01	.37840E-01
-.28880E-01	-.50844E-01	-.10231E+00	-.17304E+00	-.18697E+00	-.19990E+00
-.17929E+00	-.19081E+00	-.13692E+00	-.11923E+00	-.73256E-01	-.11619E-01
.91250E-01	.15218E+00	.19550E+00	.28286E+00	.29264E+00	.33104E+00
.31008E+00	.28625E+00	.25504E+00	.19470E+00	.12838E+00	.74267E-01
-.34896E-01	-.12314E+00	-.20071E+00	-.28471E+00	-.30992E+00	-.34561E+00
-.34387E+00	-.34166E+00	-.32892E+00	-.28248E+00	-.24449E+00	-.18907E+00
-.10896E+00	-.32107E-01	.66205E-01	.14486E+00	.21436E+00	.23801E+00
.25333E+00	.26847E+00	.27468E+00	.30829E+00	.29588E+00	.32435E+00
.27435E+00	.19392E+00	.15287E+00	.90717E-01	.80337E-01	.60968E-01
.13944E-01	-.44723E-01	-.96864E-01	-.15688E+00	-.21330E+00	-.25544E+00
-.25344E+00	-.25682E+00	-.22539E+00	-.24221E+00	-.20763E+00	-.18480E+00
-.12907E+00	-.75047E-01	-.11585E-01	.24618E-01	.74286E-01	.12537E+00
.16535E+00	.20879E+00	.19760E+00	.20196E+00	.18765E+00	.14327E+00
.95225E-01	.53041E-01	.35098E-02	-.50474E-01	-.77821E-01	-.10669E+00
-.14085E+00	-.15469E+00	-.16440E+00	-.15142E+00	-.13374E+00	-.95091E-01
-.68571E-01	-.38882E-01	.14579E-01	.69069E-01	.99562E-01	.13785E+00
.14773E+00	.15696E+00	.14771E+00	.11057E+00	.85113E-01	.50985E-01
-.47541E-02	-.73032E-01	-.14569E+00	-.20569E+00	-.27489E+00	-.28763E+00
-.30115E+00	-.29386E+00	-.27923E+00	-.26518E+00	-.21174E+00	-.15069E+00
-.47679E-01	.41006E-01	.13674E+00	.23619E+00	.27008E+00	.31486E+00
.34197E+00	.36943E+00	.36458E+00	.30468E+00	.27266E+00	.17706E+00
.69702E-01	-.18863E-01	-.12645E+00	-.19965E+00	-.29274E+00	-.34533E+00
-.41023E+00	-.42987E+00	-.30827E+00	-.41139E+00	-.37451E+00	-.30828E+00
-.23405E+00	.13275E+00	-.28083E-01	.60996E-01	.18089E+00	.27137E+00
.35384E+00	.40227E+00	.43122E+00	.44372E+00	.41204E+00	.37946E+00
.31573E+00	.22938E+00	.13313E+00	.32072E-03	.10591E+00	-.21560E+00
-.30554E+00	-.37893E+00	-.42172E+00	-.30722E+00	-.31903E+00	-.31955E+00
-.44144E+00	-.37170E+00	-.28650E+00	-.20648E+00	-.10081E+00	-.36379E-02
.81845E-01	.17870E+00	.23042E+00	.28990E+00	.34247E+00	.33673E+00
.32189E+00	.30242E+00	.24812E+00	.19088E+00	.11592E+00	.41778E-01
-.61125E-01	-.13219E+00	-.19677E+00	-.24396E+00	-.26752E+00	-.30114E+00
-.28211E+00	-.27517E+00	-.24249E+00	-.19716E+00	-.15990E+00	-.79974E-01

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-.25029E-01 .47050E-01 .12068E+00 .16317E+00 .18819E+00 .18999E+00
.19541E+00 .18802E+00 .18663E+00 .16796E+00 .13923E+00 .84811E-01
.36716E-01-.28016E-01-.69676E-01-.89621E-01-.10757E+00-.11922E+00
-.13357E+00-.13443E+00-.11487E+00-.11370E+00-.80729E-01-.37056E-01
-.50934E-02 .43685E-01 .66727E-01 .77012E-01 .84841E-01 .87564E-01
.85127E-01 .96931E-01 .90974E-01 .80711E-01 .49923E-01 .31264E-01
.68748E-02-.14948E-01-.30925E-01-.22227E-01-.49312E-02-.51236E-02
.22004E-01 .26460E-01 .47607E-01 .71809E-01 .10244E+00 .12212E+00
.15048E+00 .16456E+00 .16091E+00 .17165E+00 .16234E+00 .14335E+00
.12210E+00 .76893E-01 .40259E-01-.48367E-02-.38828E-01-.72255E-01
-.96349E-01-.11683E+00-.13204E+00-.15625E+00-.16379E+00-.15972E+00
-.12780E+00-.10553E+00-.63429E-01-.35253E-01 .30709E-02 .34631E-01
.80620E-01 .10236E+00 .12708E+00 .14336E+00 .16439E+00 .15126E+00
.12508E+00 .93651E-01 .65976E-01 .33743E-01 .70538E-02 .29146E-01
-.63963E-01-.92720E-01-.12554E+00-.12805E+00-.13156E+00-.11249E+00
-.87592E-01-.56759E-01-.24309E-01 .46864E-02 .47946E-01 .87311E-01
.13024E+00 .14678E+00 .17029E+00 .17773E+00 .17847E+00 .16478E+00
.14731E+00 .11890E+00 .78108E-01 .34858E-01-.67483E-02-.42031E-01
-.87530E-01-.11975E+00-.14971E+00-.16741E+00-.18004E+00-.17310E+00
-.16855E+00-.15195E+00-.11907E+00-.74592E-01-.35623E-01 .63331E-02
.45577E-01 .85900E-01 .11123E+00 .14337E+00 .15390E+00 .16272E+00
.16835E+00 .14259E+00 .12343E+00 .92708E-01 .63336E-01 .26637E-01
-.98673E-02-.45974E-01-.83720E-01-.11195E+00-.13831E+00-.14442E+00
-.14124E+00-.12704E+00-.11211E+00-.87107E-01-.54587E-01-.25844E-01
.10160E-01 .52858E-01 .78822E-01 .11389E+00 .13581E+00 .14137E+00
.14887E+00 .14043E+00 .12994E+00 .10285E+00 .78564E-01 .46404E-01
.21223E-01-.10929E-01-.35209E-01-.60996E-01-.79135E-01-.83992E-01
-.88193E-01-.78517E-01-.66000E-01-.45185E-01-.18561E-01 .74518E-02
.32370E-01 .61734E-01 .79892E-01 .95310E-01 .10861E+00 .11433E+00
.11087E+00 .10384E+00 .96698E-01 .82780E-01 .64918E-01 .38368E-01
.16994E-01 .22196E-02-.19750E-01-.31179E-01-.35959E-01-.38746E-01
-.36679E-01-.28596E-01-.21573E-01-.11871E-01 .16300E-02 .16151E-01
.29558E-01 .40808E-01 .52634E-01 .57644E-01 .51647E-01 .53830E-01
.48398E-01 .38760E-01 .30786E-01 .17032E-01 .54529E-02-.52175E-02
-.80706E-02-.15954E-01-.13588E-01-.12319E-01-.92943E-02 .52614E-03
.10635E-01 .20081E-01 .32391E-01 .42026E-01 .53356E-01 .58516E-01
.61991E-01 .64309E-01 .61900E-01 .60396E-01 .50906E-01 .42723E-01
.32444E-01 .21611E-01 .11314E-01 .29482E-02-.65167E-02-.13728E-01
-.17437E-01-.18768E-01-.21871E-01-.20121E-01-.15502E-01-.10216E-01
-.24633E-02 .58486E-02 .14438E-01 .20369E-01 .26780E-01 .32015E-01
.34539E-01 .37164E-01 .37476E-01 .38562E-01 .35960E-01 .32142E-01
.28813E-01 .23239E-01 .18745E-01 .13931E-01 .10424E-01 .67394E-02
.47898E-02 .36687E-02 .30399E-02 .28761E-02 .39272E-02 .49639E-02
.70613E-02 .85603E-02 .10793E-01 .13006E-01 .14911E-01 .16248E-01
.17202E-01 .17400E-01 .17900E-01 .17418E-01 .16499E-01 .15548E-01
.14468E-01 .13489E-01 .12792E-01

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-.73338E-02-.61547E-02-.53824E-02-.48215E-02-.48955E-02-.52489E-02
-.52950E-02-.60795E-02-.59315E-02-.72997E-02-.92264E-02-.11522E-01
-.14207E-01-.17416E-01-.20400E-01-.23930E-01-.25608E-01-.25948E-01
-.26292E-01-.26136E-01-.26249E-01-.25770E-01-.23564E-01-.17431E-01
-.13333E-01-.59596E-02-.61001E-04 .70233E-02 .13197E-01 .16887E-01
.19894E-01 .21376E-01 .21087E-01 .19792E-01 .18672E-01 .15983E-01
.10820E-01 .46215E-02-.43162E-02-.10747E-01-.17696E-01-.23647E-01
-.31459E-01-.34646E-01-.38409E-01-.41948E-01-.41004E-01-.41854E-01
-.37052E-01-.34507E-01-.27712E-01-.23740E-01-.19168E-01-.13423E-01
-.80331E-02 .15084E-04 .48143E-02 .88181E-02 .15777E-01 .21323E-01
.26142E-01 .26775E-01 .22440E-01 .19367E-01 .10492E-01 .47327E-02
.35725E-02 .10421E-02 .22462E-02-.46836E-03-.24253E-02-.72612E-02
-.11436E-01-.12086E-01-.23102E-01-.22544E-01-.23390E-01-.19775E-01
-.20512E-01-.10661E-01-.82954E-02-.89237E-02-.14275E-01-.22523E-01
-.33913E-01-.34784E-01-.41916E-01-.44810E-01-.39535E-01-.44118E-01
-.40774E-01-.45995E-01-.47045E-01-.47687E-01-.38102E-01-.26390E-01
-.11083E-01 .35697E-02 .21375E-01 .44325E-01 .54623E-01 .63347E-01
.65794E-01 .72071E-01 .82633E-01 .95996E-01 .10116E+00 .11298E+00
.11829E+00 .11374E+00 .99151E-01 .73911E-01 .44121E-01 .69832E-03
-.42295E-01-.71492E-01-.10251E+00-.12701E+00-.15122E+00-.17523E+00
-.18636E+00-.20773E+00-.20689E+00-.20791E+00-.20038E+00-.18200E+00
-.14937E+00-.11598E+00-.68334E-01-.30154E-01 .69693E-02 .47139E-01
.86206E-01 .12386E+00 .16174E+00 .20141E+00 .22769E+00 .24033E+00
.24347E+00 .23592E+00 .22002E+00 .19314E+00 .15753E+00 .12355E+00
.99190E-01 .58795E-01 .32102E-01 .39813E-02-.34730E-01-.75821E-01
-.11443E+00-.14954E+00-.17856E+00-.20868E+00-.21453E+00-.21180E+00
-.20186E+00-.19222E+00-.17602E+00-.14632E+00-.14080E+00-.11957E+00
-.95808E-01-.84039E-01-.54146E-01-.25637E-01 .16018E-01 .35201E-01
.67779E-01 .87691E-01 .11147E+00 .13183E+00 .15688E+00 .17825E+00
.18362E+00 .19784E+00 .18713E+00 .17272E+00 .14477E+00 .11882E+00
.90139E-01 .63658E-01 .54612E-01 .47505E-01 .42997E-01 .33553E-01
-.51655E-02-.34440E-01-.74562E-01-.92074E-01-.12705E+00-.13262E+00
-.14553E+00-.15061E+00-.14855E+00-.14457E+00-.15378E+00-.14606E+00
-.15165E+00-.16043E+00-.15248E+00-.15353E+00-.14366E+00-.13368E+00
-.11598E+00-.10824E+00-.76507E-01-.40759E-01-.17427E-01 .34562E-01
.71777E-01 .95277E-01 .11110E+00 .12745E+00 .13255E+00 .14334E+00
.15635E+00 .19173E+00 .23531E+00 .26286E+00 .29305E+00 .30677E+00
.27975E+00 .25333E+00 .20194E+00 .16368E+00 .13021E+00 .94273E-01
.76862E-01 .49116E-01 .62233E-02-.23071E-01-.74944E-01-.10849E+00
-.15546E+00-.18624E+00-.22342E+00-.22485E+00-.24077E+00-.23145E+00
-.22389E+00-.23792E+00-.23399E+00-.22016E+00-.19088E+00-.16191E+00
-.12699E+00-.75544E-01-.56676E-01-.30412E-01 .94242E-03 .27142E-01
.66493E-01 .99045E-01 .15347E+00 .18014E+00 .22389E+00 .24012E+00
.24713E+00 .23705E+00 .23505E+00 .20504E+00 .19250E+00 .18993E+00
.15188E+00 .12882E+00 .12430E+00 .93376E-01 .52378E-01 .45252E-01
.59058E-02-.10468E-01-.53213E-01-.85038E-01-.11939E+00-.15035E+00
-.19069E+00-.21890E+00-.24748E+00-.27392E+00-.29505E+00-.30070E+00
-.32625E+00-.30245E+00-.27654E+00-.25335E+00-.19753E+00-.11634E+00

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-.30805E-01	.38260E-01	.11620E+00	.15643E+00	.21151E+00	.25245E+00
.28873E+00	.33176E+00	.34666E+00	.35971E+00	.38497E+00	.36880E+00
.34794E+00	.27790E+00	.21727E+00	.11772E+00	.24738E-01	.41396E-01
-.11565E+00	-.18373E+00	-.24962E+00	-.28139E+00	-.32701E+00	-.35799E+00
-.36646E+00	-.37764E+00	-.35443E+00	-.34064E+00	-.31323E+00	-.26342E+00
-.23216E+00	-.17879E+00	-.11689E+00	-.65120E-01	.98233E-03	.54552E-01
.11757E+00	.19396E+00	.23021E+00	.24770E+00	.27358E+00	.22936E+00
.20370E+00	.16490E+00	.13093E+00	.10217E+00	.83124E-01	.70658E-01
.70808E-01	.89786E-01	.94267E-01	.92091E-01	.10857E+00	.85793E-01
.87069E-01	.90474E-01	.85476E-01	.67825E-01	.74193E-01	.57689E-01
.50711E-01	.27220E-01	.13918E-01	-.34127E-01	-.66301E-01	-.99006E-01
-.14404E+00	-.16064E+00	-.19181E+00	-.21912E+00	-.23347E+00	-.25896E+00
-.26559E+00	-.26128E+00	-.23329E+00	-.20209E+00	-.16263E+00	-.13112E+00
-.82729E-01	-.48506E-01	-.17585E-01	.59743E-01	.84535E-01	.12691E+00
.18330E+00	.21491E+00	.25042E+00	.25299E+00	.28630E+00	.28274E+00
.28006E+00	.31227E+00	.30747E+00	.30235E+00	.24322E+00	.17800E+00
.85675E-01	.71622E-02	-.10731E+00	-.17303E+00	-.24329E+00	-.26501E+00
-.27720E+00	-.22093E+00	-.21424E+00	-.18994E+00	-.19362E+00	-.17023E+00
-.16485E+00	-.15829E+00	-.12590E+00	-.58518E-01	-.18467E-01	.36460E-01
.10079E+00	.15117E+00	.20756E+00	.26279E+00	.26726E+00	.24354E+00
.20891E+00	.17755E+00	.11988E+00	.74516E-01	.39310E-01	.17511E-01
-.18051E-01	-.17059E-02	-.42192E-01	-.41944E-01	-.55792E-01	-.81970E-01
-.10391E+00	-.12278E+00	-.13731E+00	-.15785E+00	-.12305E+00	-.11624E+00
-.99502E-01	-.71047E-01	-.19868E-01	.37052E-01	.70220E-01	.11657E+00
.16306E+00	.20729E+00	.20029E+00	.19257E+00	.18085E+00	.15651E+00
.13003E+00	.11558E+00	.86547E-01	.11497E+00	.95000E-01	.91520E-01
.86560E-01	.64074E-01	.46823E-01	.18648E-01	.63873E-02	.43165E-02
-.70157E-03	-.13838E-01	-.22030E-01	-.18557E-01	-.87781E-02	-.81384E-02
.11947E-01	.16515E-01	-.77646E-02	-.20611E-01	-.12915E-01	-.27643E-01
-.53219E-01	-.88551E-01	-.74779E-01	-.75354E-01	-.77613E-01	-.87130E-01
-.91409E-01	-.83678E-01	-.13832E+00	.14549E+00	.16506E+00	.15874E+00
-.17288E+00	-.14500E+00	-.12880E+00	.91289E-01	.59980E-01	.21155E-01
.26481E-01	.79214E-01	.13652E+00	.17984E+00	.26092E+00	.29637E+00
.35295E+00	.33964E+00	.30495E+00	.28552E+00	.23017E+00	.18979E+00
.11923E+00	.58266E-01	.42881E-03	.61719E-01	.99938E-01	.17399E+00
-.22781E+00	-.29229E+00	-.32707E+00	-.34716E+00	-.35861E+00	-.33969E+00
-.28832E+00	-.26257E+00	-.18317E+00	-.14058E+00	-.86404E-01	-.25882E-01
.39564E-01	.60144E-01	.10243E+00	.16621E+00	.19657E+00	.25929E+00
.27009E+00	.28055E+00	.29223E+00	.27810E+00	.24983E+00	.19445E+00
.12333E+00	.86715E-01	.55663E-01	.83740E-02	.41573E-01	.58404E-01
-.99330E-01	-.14177E+00	-.18013E+00	-.19241E+00	-.21026E+00	-.21819E+00
-.17232E+00	-.15142E+00	-.99786E-01	-.62803E-01	-.18754E-01	-.82771E-02
.42359E-01	.37135E-01	.53318E-01	.54701E-01	.53649E-01	.74532E-01
.75177E-01	.82458E-01	.62193E-01	.23722E-01	.33512E-02	.32125E-01
-.50545E-01	-.69093E-01	-.10563E+00	.13404E+00	.11015E+00	.12245E+00
-.96723E-01	-.89697E-01	-.39675E-01	.70219E-02	.13787E-01	.83812E-01
.80599E-01	.11943E+00	.14865E+00	.14389E+00	.15125E+00	.17158E+00
.20733E+00	.24908E+00	.27063E+00	.25901E+00	.24269E+00	.19313E+00

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.12954E+00 .74590E-01-.11441E-01-.71125E-01-.11436E+00-.15728E+00
-.19764E+00-.22717E+00-.24603E+00-.27490E+00-.29520E+00-.27855E+00
-.30080E+00-.26174E+00-.22952E+00-.17899E+00-.11910E+00-.66796E-01
-.45225E-02 .83597E-01 .18244E+00 .25491E+00 .30675E+00 .35593E+00
.36954E+00 .36686E+00 .32916E+00 .28751E+00 .22706E+00 .18315E+00
.12466E+00 .76452E-01 .60816E-02-.50662E-01-.14850E+00-.19259E+00
-.24469E+00-.29676E+00-.32126E+00-.30787E+00-.30875E+00-.28902E+00
-.25195E+00-.22575E+00-.19185E+00-.18335E+00-.13180E+00-.86520E-01
-.54790E-01 .56322E-01 .13779E+00 .22577E+00 .31567E+00 .33619E+00
.40299E+00 .39504E+00 .39409E+00 .37206E+00 .34755E+00 .31235E+00
.26803E+00 .24829E+00 .18123E+00 .10079E+00 .36028E-01-.69753E-01
-.16032E+00-.24657E+00-.34356E+00-.41549E+00-.28712E+00-.29964E+00
-.31753E+00-.31095E+00-.28643E+00-.43775E+00-.34374E+00-.26899E+00
-.19030E+00-.87221E-01 .57319E-01 .15633E+00 .30095E+00 .40248E+00
.30718E+00 .37016E+00 .41468E+00 .44482E+00 .44739E+00 .41833E+00
.38145E+00 .33486E+00 .28774E+00 .38041E+00 .28643E+00 .20531E+00
.11662E+00-.19780E-01-.14090E+00-.27048E+00-.42123E+00-.33402E+00
-.39615E+00-.44592E+00-.45000E+00-.42940E+00-.38970E+00-.35421E+00
-.30815E+00-.42141E+00-.36199E+00-.31655E+00-.23509E+00-.14619E+00
-.41048E-01 .40609E-01 .14590E+00 .22273E+00 .28281E+00 .34928E+00
.40488E+00 .44122E+00 .28331E+00 .30245E+00 .28762E+00 .43259E+00
.40210E+00 .33587E+00 .26895E+00 .21574E+00 .17092E+00 .12637E+00
.81331E-01 .17316E-01-.64138E-01-.14338E+00-.20132E+00-.29225E+00
-.32752E+00-.35612E+00-.38934E+00-.38916E+00-.36900E+00-.35903E+00
-.38148E+00-.33017E+00-.32642E+00-.26826E+00-.22296E+00-.15903E+00
-.12830E+00-.97500E-01-.81212E-01-.70390E-01-.43149E-01-.39928E-01
-.21838E-01 .43899E-02 .26865E-01 .43337E-01 .60232E-01 .60438E-01
.49950E-01 .24329E-01 .30625E-01 .75180E-01 .12099E+00 .14960E+00
.18630E+00 .21194E+00 .18379E+00 .15726E+00 .12377E+00 .10282E+00
.11572E+00 .11974E+00 .16094E+00 .17251E+00 .16027E+00 .14036E+00
.59740E-01-.41407E-03-.44926E-01-.94629E-01-.14027E+00-.15406E+00
-.16505E+00-.18442E+00-.20840E+00-.24350E+00-.25880E+00-.27607E+00
-.28881E+00-.27825E+00-.25887E+00-.25371E+00-.26034E+00-.23478E+00
-.22834E+00-.19511E+00-.13250E+00-.20545E-01 .97761E-01 .18168E+00
.25054E+00 .27582E+00 .27983E+00 .27719E+00 .27543E+00 .29810E+00
.34939E+00 .36943E+00 .41210E+00 .44713E+00 .43812E+00 .38242E+00
.35721E+00 .29243E+00 .22047E+00 .14565E+00 .12709E+00 .59452E-01
-.14885E-01-.60112E-01-.11513E+00-.17839E+00-.23961E+00-.28664E+00
-.30941E+00-.32838E+00-.35732E+00-.35402E+00-.40803E+00-.41317E+00
-.42231E+00-.39721E+00-.36198E+00-.31994E+00-.25994E+00-.20208E+00
-.16382E+00-.12117E+00-.83190E-01-.41479E-01-.52336E-02 .66975E-01
.12820E+00 .18404E+00 .24271E+00 .25871E+00 .28813E+00 .32094E+00
.34879E+00 .39919E+00 .44403E+00 .27821E+00 .28762E+00 .27509E+00
.42433E+00 .34533E+00 .27614E+00 .20306E+00 .13902E+00 .74306E-01
.39420E-01-.14916E-01-.71530E-01-.12951E+00-.19769E+00-.27835E+00
-.33607E+00-.35836E+00-.37071E+00-.38252E+00-.36332E+00-.34388E+00
-.30493E+00-.27004E+00-.24687E+00-.20011E+00-.14129E+00-.95761E-01
-.42439E-01 .99447E-02 .61848E-01 .11287E+00 .15870E+00 .19715E+00

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.24176E+00	.25354E+00	.27209E+00	.26606E+00	.23523E+00	.22688E+00
.19609E+00	.12687E+00	.86475E-01	.25661E-01	.24091E-01	.50089E-01
-.37052E-01	-.42512E-01	-.44698E-01	-.31278E-01	-.22014E-01	-.28049E-01
-.20780E-01	-.38420E-01	-.44026E-01	-.62134E-01	-.61794E-01	-.48496E-01
-.35113E-01	-.32660E-01	-.31823E-01	-.50414E-01	-.72147E-01	-.11244E+00
-.13928E+00	-.15620E+00	-.14436E+00	-.12300E+00	-.11912E+00	-.11113E+00
-.10271E+00	-.77919E-01	-.76597E-01	-.64193E-01	-.26572E-01	.20979E-01
.10039E+00	.20356E+00	.28610E+00	.37454E+00	.40711E+00	.44664E+00
.29495E+00	.29244E+00	.29758E+00	.31999E+00	.32398E+00	.31450E+00
.27579E+00	.38523E+00	.26130E+00	.14207E+00	.44745E-02	.13615E+00
-.23107E+00	-.30311E+00	-.39319E+00	-.28575E+00	-.30824E+00	-.31908E+00
-.34449E+00	-.34625E+00	-.33430E+00	-.28468E+00	-.40958E+00	-.33144E+00
-.20881E+00	-.13323E+00	-.76909E-01	.24154E-01	.61545E-01	.12250E+00
.16647E+00	.23760E+00	.30440E+00	.34874E+00	.36838E+00	.37660E+00
.36630E+00	.32067E+00	.28476E+00	.25635E+00	.20461E+00	.16857E+00
.10976E+00	.75425E-01	.52112E-01	.17624E-01	.51514E-02	.33220E-02
-.87479E-02	.33654E-01	.63726E-01	.99422E-01	.13920E+00	.17012E+00
.17086E+00	.18607E+00	.17581E+00	.14591E+00	.12830E+00	.11313E+00
.86330E-01	.19197E-01	-.43120E-01	.90299E-01	.17603E+00	.21906E+00
-.25761E+00	-.30609E+00	-.32169E+00	-.32714E+00	-.32752E+00	-.30999E+00
-.27815E+00	-.23224E+00	-.15817E+00	.10502E+00	.19144E-02	.74645E-01
.14990E+00	.20930E+00	.28547E+00	.34050E+00	.38110E+00	.38474E+00
.42856E+00	.38893E+00	.37625E+00	.33222E+00	.24515E+00	.19011E+00
.95110E-01	.65191E-02	.91441E-01	.15415E+00	.20932E+00	.27853E+00
-.31547E+00	-.36591E+00	-.38335E+00	-.40166E+00	-.41112E+00	-.39111E+00
-.35707E+00	-.25762E+00	-.20631E+00	.90242E-01	.12450E-01	.77956E-01
.14274E+00	.19659E+00	.22895E+00	.23306E+00	.23840E+00	.21746E+00
.16817E+00	.12791E+00	.90478E-01	.36425E-01	.10707E-02	.24991E-01
-.71298E-01	-.11709E+00	-.16563E+00	-.22306E+00	-.27727E+00	-.30949E+00
-.30541E+00	-.29764E+00	-.25281E+00	-.18018E+00	-.10197E+00	-.50320E-01
.54254E-02	.27995E-01	.31108E-01	.53654E-01	.80731E-01	.96516E-01
.11601E+00	.13647E+00	.17391E+00	.18895E+00	.16345E+00	.16233E+00
.10379E+00	.34761E-01	-.88891E-02	.59577E-01	.11300E+00	.11333E+00
-.12877E+00	-.97248E-01	-.98180E-01	.11561E+00	.12647E+00	.15626E+00
-.15601E+00	-.19397E+00	-.17564E+00	.16725E+00	.11006E+00	.51040E-01
-.22848E-01	.20792E-02	.27085E-01	.13897E-01	.34995E-02	.18060E-01
.12177E-01	.69094E-02	.61591E-01	.89666E-01	.96217E-01	.50462E-01
.60687E-01	.19377E-01	.35093E-01	.57831E-01	.70878E-01	.39660E-01
-.36387E-02	.49267E-01	.74116E-01	.92651E-01	.10700E+00	.99610E-01
.89810E-01	.10846E+00	.12622E+00	.13493E+00	.17251E+00	.15872E+00
.13411E+00	.96644E-01	.83736E-02	.46955E-01	.94150E-01	.11944E+00
-.15919E+00	.17047E+00	-.22044E+00	.26790E+00	.33040E+00	.37013E+00
-.41505E+00	.41155E+00	.38006E+00	.33194E+00	.26161E+00	.19236E+00
-.12838E+00	-.78638E-01	.37659E-01	.33468E-01	.31127E-01	.85063E-01
.14704E+00	.21368E+00	.26266E+00	.28051E+00	.30437E+00	.34244E+00
.32121E+00	.31756E+00	.27654E+00	.25652E+00	.19652E+00	.15423E+00
.52325E-01	.18115E-02	.66047E-01	.11950E+00	.16262E+00	.20319E+00
-.21500E+00	-.21432E+00	-.21283E+00	.19336E+00	.18514E+00	.14560E+00

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-.12725E+00-.66187E-01-.30908E-01-.16554E-02 .38466E-01 .54178E-01
.85262E-01 .10917E+00 .12606E+00 .15227E+00 .14754E+00 .18752E+00
.19575E+00 .18452E+00 .15709E+00 .15097E+00 .11568E+00 .87711E-01
.67798E-01 .50485E-01 .32650E-01 .31697E-01 .16639E-01-.26147E-01
-.46910E-01-.77369E-01-.11291E+00-.11204E+00-.12116E+00-.14001E+00
-.12446E+00-.12024E+00-.13703E+00-.14418E+00-.14028E+00-.15463E+00
-.13784E+00-.14050E+00-.10974E+00-.79998E-01-.52752E-01 .17201E-01
.61166E-01 .11028E+00 .16022E+00 .20642E+00 .25226E+00 .27044E+00
.29884E+00 .30710E+00 .31452E+00 .28741E+00 .28710E+00 .23596E+00
.18998E+00 .11458E+00 .66289E-01-.56391E-02-.10643E+00-.19028E+00
-.27203E+00-.33465E+00-.39099E+00-.42557E+00-.44881E+00-.28411E+00
-.27345E+00-.38916E+00-.32366E+00-.23837E+00-.16950E+00-.83948E-01
-.39980E-01 .52566E-01 .11832E+00 .17674E+00 .23799E+00 .31075E+00
.38451E+00 .42539E+00 .29127E+00 .30474E+00 .31008E+00 .29118E+00
.43921E+00 .36756E+00 .26422E+00 .15654E+00 .24960E-01-.96259E-01
-.18096E+00-.28368E+00-.36800E+00-.39978E+00-.29832E+00-.33093E+00
-.34074E+00-.36098E+00-.35013E+00-.33895E+00-.31691E+00-.42345E+00
-.33751E+00-.23827E+00-.15976E+00-.31504E-01 .66749E-01 .15376E+00
.24453E+00 .34672E+00 .42825E+00 .28429E+00 .30752E+00 .30419E+00
.44428E+00 .39285E+00 .33647E+00 .29431E+00 .25509E+00 .23738E+00
.18740E+00 .15117E+00 .10014E+00 .39422E-01-.45189E-01-.14631E+00
-.19888E+00-.28052E+00-.29838E+00-.31716E+00-.32449E+00-.33847E+00
-.34711E+00-.33748E+00-.35116E+00-.36982E+00-.34649E+00-.33134E+00
-.29592E+00-.26383E+00-.21539E+00-.15412E+00-.82047E-01-.23202E-01
.38465E-01 .10226E+00 .16117E+00 .23977E+00 .25620E+00 .29918E+00
.33347E+00 .31247E+00 .31195E+00 .30489E+00 .26258E+00 .26121E+00
.22272E+00 .16792E+00 .15681E+00 .10086E+00 .67918E-01 .18239E-01
-.46815E-01-.10353E+00-.17269E+00-.20058E+00-.25846E+00-.28141E+00
-.28412E+00-.31604E+00-.27283E+00-.29067E+00-.25280E+00-.23045E+00
-.21748E+00-.19913E+00-.18010E+00-.16802E+00-.13053E+00-.70533E-01
-.69773E-01-.48850E-01-.32633E-02 .12768E-01 .22870E-01 .67304E-01
.83851E-01 .11150E+00 .13116E+00 .13755E+00 .12335E+00 .11114E+00
.99721E-01 .12751E+00 .99951E-01 .13411E+00 .17309E+00 .22572E+00
.25475E+00 .26162E+00 .30809E+00 .31088E+00 .29909E+00 .29888E+00
.26108E+00 .23656E+00 .21270E+00 .17591E+00 .11034E+00 .55171E-01
-.42266E-01-.14517E+00-.22499E+00-.32539E+00-.39716E+00-.27687E+00
-.31034E+00-.31830E+00-.32904E+00-.31959E+00-.29050E+00-.39276E+00
-.31529E+00-.22282E+00-.10555E+00-.37150E-01 .50212E-01 .15481E+00
.25904E+00 .34004E+00 .42421E+00 .28843E+00 .32281E+00 .33312E+00
.34102E+00 .32279E+00 .44657E+00 .37587E+00 .25004E+00 .17512E+00
.70758E-01 .26117E-01-.23665E-01-.98174E-01-.14504E+00-.19769E+00
-.25885E+00-.31711E+00-.36052E+00-.40736E+00-.39775E+00-.37299E+00
-.32648E+00-.26049E+00-.18738E+00-.12502E+00-.10853E-01 .36036E-01
.75223E-01 .10359E+00 .13255E+00 .11993E+00 .12503E+00 .10050E+00
.11127E+00 .10232E+00 .95566E-01 .11348E+00 .11898E+00 .11625E+00
.97066E-01 .79663E-01 .52092E-01-.46380E-02-.14101E-01-.53066E-01
-.78593E-01-.56662E-01-.40057E-01 .10801E-02 .35734E-01 .54941E-01
.10179E+00 .13962E+00 .17129E+00 .15335E+00 .14721E+00 .11976E+00

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.10836E+00	.80209E-01	.77112E-01	.59421E-01	.47198E-01	.50297E-01
.32032E-01	.18042E-01	.42779E-01	.71418E-01	.13947E+00	.18273E+00
-.21550E+00	-.21589E+00	-.21035E+00	-.19588E+00	-.15554E+00	-.13046E+00
-.88101E-01	-.69583E-01	-.12636E-01	.11398E-01	.12058E-01	.47390E-01
.65502E-01	.10304E+00	.11366E+00	.14613E+00	.18473E+00	.20717E+00
.21090E+00	.23894E+00	.22095E+00	.22402E+00	.19222E+00	.14722E+00
.12118E+00	.11512E+00	.82351E-01	.57732E-01	.30257E-01	.14409E-01
-.77220E-01	-.99754E-01	-.18679E+00	-.23926E+00	-.27532E+00	-.33145E+00
-.32145E+00	-.30974E+00	-.29170E+00	-.27784E+00	-.28041E+00	-.27939E+00
-.27680E+00	-.24967E+00	-.19143E+00	-.14044E+00	-.51781E-01	.37261E-01
.10797E+00	.19255E+00	.23881E+00	.28014E+00	.28162E+00	.30196E+00
.29940E+00	.31577E+00	.31817E+00	.35145E+00	.35372E+00	.35464E+00
.35333E+00	.30985E+00	.28094E+00	.22650E+00	.21914E+00	.14657E+00
.12068E+00	.73373E-01	.31955E-01	.28934E-01	.94208E-01	.15126E+00
-.20899E+00	-.24922E+00	-.28326E+00	-.31146E+00	-.34206E+00	-.35126E+00
-.34897E+00	-.33338E+00	-.30158E+00	-.26253E+00	-.19056E+00	-.11304E+00
-.59391E-01	.14320E-01	.82330E-01	.14223E+00	.17386E+00	.18841E+00
.22299E+00	.22369E+00	.22025E+00	.26290E+00	.26422E+00	.27146E+00
.27184E+00	.22416E+00	.19089E+00	.15702E+00	.97348E-01	.70589E-01
.45863E-01	-.88740E-03	.50174E-01	.60863E-01	.71022E-01	.83619E-01
-.79745E-01	-.79796E-01	-.78440E-01	-.58667E-01	.43582E-01	.51399E-01
-.68436E-01	-.83938E-01	-.89102E-01	.87141E-01	.59694E-01	.37561E-01
-.14276E-01	.14200E-01	.13704E-01	.16930E-03	.33803E-01	.72699E-01
-.61813E-01	-.59809E-01	.31663E-01	.10596E-01	.47568E-01	.71346E-01
.67555E-01	.54699E-01	.21853E-01	.34564E-02	.17744E-02	.75240E-02
.94729E-02	.32745E-01	.28121E-01	.44702E-01	.42973E-01	.10389E-01
-.18990E-01	-.33313E-01	-.50854E-01	.53843E-01	.64083E-01	.51339E-01
-.69749E-01	-.13048E+00	-.14315E+00	.15892E+00	.15294E+00	.13521E+00
-.96426E-01	-.73279E-01	-.18869E-01	.10313E-01	.62760E-01	.10684E+00
.15962E+00	.19275E+00	.25255E+00	.27888E+00	.32343E+00	.31118E+00
.29467E+00	.22406E+00	.16301E+00	.10640E+00	.76171E-01	.43150E-01
.32357E-01	.11430E-01	.38704E-01	.12325E+00	.19800E+00	.26377E+00
-.32767E+00	-.36691E+00	-.35069E+00	-.34457E+00	-.33605E+00	-.32343E+00
-.30275E+00	-.26945E+00	-.23271E+00	.18150E+00	.10240E+00	.11065E-01
.86325E-01	.18157E+00	.22224E+00	.25671E+00	.29614E+00	.32627E+00
.37272E+00	.40668E+00	.43923E+00	.43375E+00	.40320E+00	.34976E+00
.25238E+00	.14119E+00	.27439E-01	.68180E-01	.15787E+00	.22381E+00
-.27287E+00	-.32534E+00	-.36763E+00	.40829E+00	.42017E+00	.42930E+00
-.40639E+00	-.35673E+00	-.30849E+00	-.26221E+00	-.22560E+00	-.17419E+00
-.14542E+00	-.79384E-01	.37024E-01	.36692E-01	.10910E+00	.18728E+00
.23531E+00	.27036E+00	.25582E+00	.25426E+00	.20239E+00	.18851E+00
.17522E+00	.17237E+00	.17244E+00	.18475E+00	.21012E+00	.20939E+00
.21006E+00	.22241E+00	.22874E+00	.22731E+00	.21446E+00	.19850E+00
.15645E+00	.10888E+00	.63379E-01	.51153E-02	.52726E-01	.58260E-01
-.75869E-01	-.72060E-01	-.90258E-01	.13840E+00	.19418E+00	.26493E+00
-.33210E+00	-.38034E+00	-.41816E+00	.43144E+00	.42453E+00	.41435E+00
-.37506E+00	-.35381E+00	-.33134E+00	.32954E+00	.28871E+00	.24816E+00
-.18055E+00	-.12288E+00	-.34838E-01	.64100E-01	.14912E+00	.23391E+00

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.30286E+00	.39071E+00	.42690E+00	.27607E+00	.28689E+00	.27944E+00
.42135E+00	.38883E+00	.34270E+00	.29682E+00	.22948E+00	.16101E+00
.10654E+00	.42432E-01	.79985E-02	.67621E-01	.10543E+00	.11847E+00
-.11961E+00	.13045E+00	.12279E+00	.11466E+00	.11024E+00	.12613E+00
-.12942E+00	.13287E+00	.13112E+00	.11152E+00	.97515E-01	.68503E-01
-.43580E-01	.16180E-01	.21957E-01	.28428E-01	.18236E-01	.47723E-02
-.21305E-01	.35044E-01	.50515E-01	.49635E-01	.43370E-01	.40950E-01
-.20947E-01	.98922E-02	.18258E-01	.20321E-01	.43936E-01	.47845E-01
.63896E-01	.96710E-01	.11282E+00	.12755E+00	.16728E+00	.17871E+00
.19207E+00	.19427E+00	.16781E+00	.15859E+00	.12005E+00	.72924E-01
.22189E-01	.27315E-01	.76710E-01	.11627E+00	.15009E+00	.18761E+00
-.19935E+00	.20682E+00	.19710E+00	.18732E+00	.16452E+00	.13063E+00
-.11253E+00	.77076E-01	.44739E-01	.16705E-01	.14146E-01	.52769E-01
.81339E-01	.92523E-01	.10404E+00	.11023E+00	.11092E+00	.92941E-01
.76919E-01	.61732E-01	.50513E-01	.35266E-01	.26249E-01	.12698E-01
-.54720E-02	.31542E-01	.47850E-01	.59870E-01	.43053E-01	.36722E-01
-.12467E-01	.46235E-02	.27450E-01	.39072E-01	.52452E-01	.46006E-01
.43579E-01	.40287E-01	.54010E-01	.54985E-01	.54110E-01	.56503E-01
.42840E-01	.31880E-01	.11229E-02	.20351E-01	.45835E-01	.62961E-01
-.87874E-01	.10144E+00	.11043E+00	.11732E+00	.12941E+00	.14305E+00
-.15105E+00	.15511E+00	.14343E+00	.11659E+00	.88406E-01	.65818E-01
-.25401E-01	.85700E-02	.89317E-02	.27267E-01	.38223E-01	.56576E-01
.71285E-01	.10107E+00	.10931E+00	.11418E+00	.11738E+00	.10959E+00
.94642E-01	.71805E-01	.54751E-01	.40973E-01	.43656E-01	.41982E-01
.48611E-01	.49857E-01	.42199E-01	.39893E-01	.26906E-01	.26329E-01
.13324E-01	.73175E-02	.27909E-02	.14160E-02	.57052E-02	.50711E-02
-.11831E-01	.16680E-01	.33499E-01	.36673E-01	.47367E-01	.57054E-01
-.72794E-01	.79331E-01	.87077E-01	.95883E-01	.96376E-01	.91573E-01
-.81457E-01	.67527E-01	.53099E-01	.34803E-01	.25497E-01	.15012E-01
-.12309E-01	.33812E-02	.11348E-01	.19094E-01	.30637E-01	.47681E-01
.64269E-01	.76076E-01	.89885E-01	.90844E-01	.89190E-01	.88553E-01
.83056E-01	.78653E-01	.75060E-01	.71734E-01	.71208E-01	.64681E-01
.62342E-01	.62828E-01	.50859E-01	.37502E-01	.22526E-01	.42711E-02
-.69644E-02	.26206E-01	.42548E-01	.56860E-01	.71366E-01	.79472E-01
-.85118E-01	.93433E-01	.10314E+00	.10432E+00	.10726E+00	.10378E+00
-.95482E-01	.80100E-01	.65904E-01	.47693E-01	.26281E-01	.83013E-02
.11061E-01	.23824E-01	.38224E-01	.50301E-01	.62616E-01	.68504E-01
.77981E-01	.83078E-01	.86739E-01	.82748E-01	.81783E-01	.75018E-01
.66997E-01	.58266E-01	.45144E-01	.31825E-01	.18356E-01	.80953E-02
-.34167E-02	.14125E-01	.22971E-01	.30148E-01	.34908E-01	.38116E-01
-.38504E-01	.37639E-01	.36682E-01	.34480E-01	.29227E-01	.25425E-01
-.21546E-01	.15006E-01	.10438E-01	.71165E-02	.51112E-02	.31395E-02
-.13125E-02	.48837E-03	.13505E-03	.66528E-03	.98253E-03	.24109E-03
-.33398E-03	.11842E-02	.15294E-02	.11369E-02	.43392E-03	.43762E-03
.13361E-02	.23790E-02	.28613E-02	.29898E-02	.25133E-02	.20930E-02
.15120E-02	.74476E-03	.17485E-03			

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-.35203E-02-.37041E-02-.42273E-02-.49412E-02-.52412E-02-.49667E-02
-.41389E-02-.30010E-02-.12981E-02-.12171E-02-.27631E-02-.26211E-02
-.35356E-03-.56369E-02-.92474E-02-.11030E-01-.84980E-02-.47998E-02
.32192E-03-.87396E-02-.15408E-01-.17408E-01-.14815E-01-.89587E-02
.86526E-04-.95303E-02-.16191E-01-.20745E-01-.18799E-01-.15467E-01
-.11717E-01-.78774E-02-.29631E-02-.57495E-02-.11098E-01-.14096E-01
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-.80111E-02-.12838E-01-.23001E-01-.29067E-01-.35413E-01-.29761E-01
-.18876E-01-.35972E-02-.11978E-01-.20117E-01-.28420E-01-.31598E-01
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-.23863E-01-.28815E-01-.29469E-01-.19439E-01-.12788E-02-.14142E-01
.19893E-01-.15143E-01-.59059E-02-.67867E-02-.17048E-01-.26345E-01
-.31231E-01-.30831E-01-.24994E-01-.16915E-01-.90319E-02-.42133E-02
.72178E-02-.23336E-01-.33747E-01-.46645E-01-.54098E-01-.55780E-01
.49110E-01-.30446E-01-.16068E-01-.22741E-02-.10360E-02-.17727E-01
-.33131E-01-.32962E-01-.22706E-01-.68408E-02-.26049E-01-.22477E-01
.87307E-02-.20131E-01-.38981E-01-.39126E-01-.16339E-01-.37800E-02
.28486E-01-.33084E-01-.28562E-01-.78394E-02-.18158E-01-.34441E-01
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-.62469E-01-.36907E-01-.83162E-02-.13182E-01-.10973E-01-.11252E-02
-.31966E-02-.13992E-03-.30662E-02-.73736E-02-.16498E-01-.21795E-01
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.28758E-01-.40774E-03-.37001E-01-.46481E-01-.35335E-01-.68011E-03
.38490E-01-.75125E-01-.87686E-01-.87117E-01-.64045E-01-.65733E-02
-.49198E-01-.89328E-01-.12062E+00-.12090E+00-.98632E-01-.60086E-01
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-.51275E-01-.42232E-01-.24707E-01-.14943E-01-.49900E-01-.82954E-01
.75687E-01-.40650E-01-.98283E-02-.54244E-01-.83102E-01-.89449E-01
-.86652E-01-.67571E-01-.49813E-01-.20453E-01-.68343E-02-.11933E-02
-.17605E-01-.24438E-01-.52485E-01-.80892E-01-.90666E-01-.72789E-01
-.53371E-01-.28451E-01-.48725E-02-.11241E-01-.46671E-01-.64505E-01
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-.55088E-02-.21262E-01-.50649E-01-.57415E-01-.34684E-01-.55215E-02
-.45366E-01-.77049E-01-.99921E-01-.11096E+00-.12097E+00-.99838E-01
-.35824E-01-.23477E-01-.61456E-01-.59399E-01-.21708E-01-.13637E-01
-.33141E-01-.43237E-01-.36312E-01-.21794E-01-.83056E-02-.37320E-01
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-.30297E-01-.36763E-01-.62596E-01-.84124E-01-.10313E+00-.15332E+00
-.17195E+00-.17284E+00-.12767E+00-.65064E-01-.18359E-01-.21265E-01
.41469E-01-.45619E-01-.37573E-01-.50783E-02-.53471E-01-.84884E-01
-.84305E-01-.32920E-01-.30692E-01-.69982E-01-.99680E-01-.10497E+00
.12081E+00-.13095E+00-.75866E-01-.39547E-02-.10900E+00-.16311E+00
-.13610E+00-.81401E-01-.18476E-01-.34148E-02-.30170E-01-.54230E-01
.52379E-01-.64266E-01-.54430E-01-.18452E-01-.43999E-01-.10819E+00
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.10857E+00-.14315E+00-.12629E+00-.10037E+00-.87593E-01-.90107E-01
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-.93485E-03-.54524E-01-.99670E-01-.11094E+00-.11143E+00-.12830E+00
-.10286E+00-.84295E-01-.24567E-01.42273E-01.10533E+00.16237E+00
.16350E+00.14956E+00.90138E-01.58051E-02-.32250E-01-.50397E-01
-.23443E-01-.14916E-01.18534E-01.61761E-01.85092E-01.49319E-01
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.17366E-01.36729E-01.19652E-01.72928E-03-.17619E-01-.54100E-01
-.94898E-01-.76887E-01-.34283E-01.57482E-01.16998E+00.25935E+00
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-.22893E+00-.22644E+00-.20009E+00-.91583E-01.76792E-02.10735E+00
.18431E+00.19170E+00.13882E+00.10289E+00.86008E-01.99283E-01
.81281E-01.40765E-01-.66099E-02-.37924E-01-.48280E-01-.11055E+00
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.23219E+00.14315E+00.14530E+00.26890E+00.11845E+00-.40663E-01
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-.31471E-01-.68788E-01-.98730E-01-.93469E-01-.90557E-01-.79542E-01
-.81188E-01-.28126E-01.51757E-01.96493E-01.10515E+00.88782E-01
.86974E-01.10907E+00.13680E+00.14416E+00.14166E+00.81931E-01
.19863E-01-.15322E-01-.21979E-01.29812E-03.67600E-03.41793E-02
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-.10151E+00-.67035E-01.17693E-01.43319E-01.11923E-01-.25316E-01
-.66892E-01-.11639E+00-.98379E-01-.61751E-01-.19526E-01.31313E-01
.49333E-01.76325E-01.52017E-01.62468E-01.92806E-01.95029E-01
.96888E-01.97582E-01.14937E+00.19978E+00.20164E+00.13691E+00
.12716E-01-.74800E-01-.10987E+00-.77009E-01-.47068E-01-.44605E-02
.68447E-01.12248E+00.17524E+00.12572E+00.10650E+00.31639E-01
.19813E-01-.34900E-01-.75237E-01-.85419E-01-.78194E-01-.67911E-01
-.60576E-01-.10686E+00-.16226E+00-.18104E+00-.17090E+00-.13754E+00
-.11416E+00-.61824E-01-.44300E-01-.39487E-01-.49116E-01-.54533E-01
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.22260E+00.10420E+00-.44045E-01-.14263E+00-.18260E+00-.16096E+00
-.15585E+00-.11555E+00-.71264E-01-.38508E-01-.80229E-01-.14971E+00
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.16813E+00.12159E+00.69522E-01-.37818E-02-.58318E-03.23341E-01
.10591E-01.21777E-01.41390E-01.66600E-01.18810E-01-.76053E-01
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-.13415E-01.47998E-01.67451E-01.54161E-01.20667E-01.74096E-01
.16344E+00.26919E+00.11940E+00.21393E+00.51617E-01-.15406E+00
-.13834E+00-.18084E+00-.17811E+00-.12414E+00-.10693E+00.85427E-01
.22331E+00.26247E+00.23332E+00.15392E+00.89585E-01-.11524E-01
-.11566E+00-.18996E+00-.25563E+00-.11909E+00-.27595E+00-.23307E+00
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.76856E-01-.50560E-01-.12170E+00-.16998E+00-.19141E+00-.17943E+00
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.68529E-01.11986E+00.18985E+00.23734E+00.22753E+00.14003E+00
.38834E-01-.63207E-01-.13309E+00-.16725E+00-.11223E+00-.21839E-01
.84307E-01.17089E+00.18339E+00.13491E+00.88764E-01.80215E-01
-.65860E-02-.70783E-01-.15694E+00-.18815E+00-.17947E+00-.17143E+00

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-.21125E+00-.21950E+00-.17026E+00-.39917E-01 .95057E-01 .20558E+00
.26828E+00 .12139E+00 .16935E+00-.39626E-02-.20699E+00-.13978E+00
-.12510E+00-.21996E+00-.99081E-01 .33435E-01 .10601E+00 .20703E+00
.12950E+00 .13641E+00 .13013E+00 .24405E+00 .10855E+00-.58311E-01
-.17674E+00-.23573E+00-.23025E+00-.18962E+00-.15566E+00-.11118E+00
.21835E-01 .13058E+00 .19040E+00 .15565E+00 .40524E-01-.56696E-01
-.62212E-01-.32227E-01 .38521E-01 .12819E+00 .18467E+00 .19726E+00
.17100E+00 .10635E+00 .36253E-01-.23615E-01-.56458E-01-.61456E-01
-.59572E-01-.32321E-01-.10088E-01-.41972E-01-.10572E+00-.18546E+00
-.24782E+00-.22886E+00-.15960E+00-.67214E-01-.37159E-01-.12571E+00
-.19489E+00-.23043E+00-.13046E+00 .27788E-01 .23489E+00 .16148E+00
.20635E+00 .18364E+00 .12118E+00 .11002E+00-.18540E-01-.12804E+00
-.18423E+00-.26875E+00-.27707E+00-.25494E+00-.19792E+00-.13902E+00
-.92949E-01-.49772E-01 .33387E-01 .13368E+00 .17212E+00 .13680E+00
.43718E-01-.28287E-01-.41921E-01-.39953E-01-.49496E-01-.34594E-01
-.66528E-02 .26877E-01 .88688E-01 .11267E+00 .79144E-01-.25659E-01
-.13437E+00-.23593E+00-.26835E+00-.22307E+00-.16239E+00-.25713E-01
.11581E+00 .20123E+00 .22376E+00 .15545E+00 .94408E-02-.13167E+00
-.24044E+00-.25237E+00-.18485E+00-.65038E-01 .49511E-01 .13289E+00
.16736E+00 .16430E+00 .11987E+00 .37769E-01-.74351E-01-.13908E+00
-.13474E+00-.10436E+00-.34765E-01 .21800E-01 .10211E+00 .18099E+00
.22531E+00 .22467E+00 .16303E+00 .11882E+00 .64241E-01 .47554E-01
.47956E-01 .59037E-01 .12337E+00 .17488E+00 .14180E+00 .11068E+00
-.36669E-01-.13433E+00-.23496E+00-.26958E+00-.27155E+00-.20824E+00
-.76475E-01 .60602E-01 .20569E+00 .27361E+00 .12065E+00 .20030E+00
.90295E-01-.29609E-01-.13214E+00-.17316E+00-.13061E+00-.70796E-01
-.15120E-02 .66951E-01 .15593E+00 .19941E+00 .17913E+00 .17090E+00
.98969E-01 .40134E-01-.73950E-02-.55928E-01-.75000E-01-.75351E-01
-.56522E-01-.89671E-01-.82772E-01-.47191E-02 .47805E-01 .72015E-01
-.57152E-02-.11310E+00-.14122E+00-.13701E+00-.81948E-01 .87084E-02
.10816E+00 .24979E+00 .14371E+00 .13194E+00 .20201E+00 .65310E-01
-.44013E-01-.79592E-01-.96825E-01-.82240E-01-.45897E-02 .12294E+00
.19036E+00 .24669E+00 .19001E+00 .62487E-01-.44752E-01-.17287E+00
-.12192E+00-.14282E+00-.14508E+00-.24220E+00-.11422E+00 .43302E-02
.13235E+00 .20479E+00 .24628E+00 .17371E+00 .77081E-01-.15842E-01
-.80078E-01-.85316E-01-.53409E-01 .29908E-02 .26606E-01 .24427E-01
-.52177E-02 .14103E-01 .94888E-01 .21071E+00 .11888E+00 .11950E+00
.21817E+00 .97085E-01-.11733E-02-.11384E+00-.17869E+00-.18526E+00
-.14693E+00-.14895E+00-.12514E+00-.90595E-01 .41909E-02 .93684E-01
.12827E+00 .14327E+00 .13823E+00 .10571E+00 .74920E-01 .51086E-01
.54514E-01 .60753E-01 .16781E-01-.65052E-01-.10270E+00-.63868E-01
.68248E-01 .20361E+00 .23850E+00 .15177E+00-.11147E-01-.18170E+00
-.11988E+00-.27797E+00-.24294E+00-.17536E+00-.39204E-02 .93024E-01
.13655E+00 .50507E-01-.83236E-01-.18377E+00-.16461E+00-.11481E+00
.82344E-02 .10689E+00 .16144E+00 .17487E+00 .17038E+00 .14609E+00
.13979E+00 .10538E+00 .31966E-01-.50206E-01-.86466E-01-.35523E-01
.65553E-01 .12142E+00 .91661E-01-.13520E-02-.29488E-01-.23813E-01
.26662E-01 .13731E-01-.79570E-01-.17933E+00-.21549E+00-.24541E+00

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-.26991E+00-.23460E+00-.11832E+00 .58779E-01 .20971E+00 .12635E+00
.26527E+00 .20185E+00 .12971E+00 .29743E-01-.70762E-01-.16059E+00
-.18112E+00-.86872E-01 .50015E-01 .14233E+00 .19851E+00 .17007E+00
.93627E-01-.65859E-01-.24708E+00-.15192E+00-.17319E+00-.13112E+00
-.12453E+00 .66970E-01 .17431E+00 .23937E+00 .19693E+00 .94454E-01
-.12896E-01-.11365E+00-.10711E+00-.54898E-01 .11491E-01 .75714E-01
.12992E+00 .13883E+00 .91201E-01 .46330E-01-.23659E-01-.73340E-01
-.11667E+00-.83552E-01-.39474E-01 .45065E-01 .67872E-01 .30853E-01
-.50793E-01-.12128E+00-.21224E+00-.23398E+00-.23023E+00-.15698E+00
.19858E-02 .17968E+00 .12660E+00 .14095E+00 .25549E+00 .13648E+00
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.10600E+00 .99409E-01 .69556E-01 .23196E-01 .31899E-02-.72810E-01
-.14067E+00-.23349E+00-.24925E+00-.16466E+00-.55179E-01 .24701E-01
.68891E-01 .99841E-01 .10651E+00 .77985E-01 .14482E-01-.14736E-01
-.24970E-01-.15582E-01-.99235E-02 .12609E-01 .60227E-01 .94606E-01
.12662E+00 .10939E+00 .11464E+00 .84438E-01 .39541E-01 .59122E-01
.48838E-01 .39531E-01 .28639E-01-.55407E-02-.63872E-01-.76214E-01
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-.49041E-01-.62472E-02 .78844E-01 .17664E+00 .24508E+00 .25754E+00
.22757E+00 .14623E+00 .11990E+00 .12735E+00 .13352E+00 .99771E-01
.59405E-01-.47130E-01-.13194E+00-.19402E+00-.19480E+00-.14888E+00
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.14036E+00 .12519E+00 .14669E+00 .11849E+00 .16145E+00 .12666E-01
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.15739E+00 .14752E+00 .99496E-01-.29676E-02-.89127E-01-.78797E-01
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.48715E-01 .31293E-01-.20036E-01-.11372E+00-.17306E+00-.18746E+00
-.14776E+00-.69699E-01 .62237E-01 .13309E+00 .22687E+00 .26945E+00
.23235E+00 .18271E+00 .16726E+00 .12007E+00 .10791E-01-.95321E-01
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.24348E-01 .56198E-01 .40274E-01-.45175E-01-.10261E+00-.13742E+00
-.17095E+00-.16071E+00-.12248E+00-.23473E-02 .12099E+00 .18166E+00
.18384E+00 .13067E+00 .95394E-01 .51382E-01-.24200E-01-.13768E+00
-.21718E+00-.20414E+00-.12485E+00-.72620E-02 .68218E-01 .12964E+00
.15042E+00 .14889E+00 .69610E-01-.32576E-01-.14024E+00-.17382E+00
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.14836E-01 .41207E-01 .13934E-01-.25698E-01-.65843E-01-.67979E-01
-.78818E-01-.80750E-02 .81105E-01 .91117E-01 .52964E-01 .25380E-01
-.68383E-02-.33616E-01-.11422E+00-.16412E+00-.18027E+00-.12842E+00
-.46467E-01 .45846E-01 .84593E-01 .75454E-01 .41584E-01-.42742E-01
-.13737E+00-.20968E+00-.19197E+00-.11344E+00 .58153E-01 .17104E+00
.23314E+00 .21675E+00 .14847E+00 .78508E-01 .98181E-02-.20217E-01
-.12336E-01-.93694E-02 .28011E-01 .35631E-01-.28590E-01-.12321E+00

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-.16304E+00-.16032E+00-.17316E+00-.19008E+00-.19007E+00-.12763E+00
-.57628E-01-.41979E-02.54623E-02-.41301E-01-.59178E-01-.90373E-01
-.73541E-01-.28954E-01.30390E-01.92382E-01.13208E+00.14673E+00
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-.22834E+00-.13021E+00.19576E-01.11371E+00.20927E+00.21613E+00
.22765E+00.17819E+00.68838E-01-.46378E-01-.15460E+00-.21585E+00
-.20605E+00-.20676E+00-.15532E+00-.10618E+00-.24969E-01.27217E-01
.39595E-01-.23534E-03-.78298E-01-.14834E+00-.17505E+00-.15257E+00
-.13187E+00-.75215E-01-.30873E-01.51480E-02.24519E-01.82739E-01
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.32011E-01.15028E-01.59511E-02.36941E-01.65277E-01.81491E-01
.76043E-01.58752E-01.55277E-02-.10380E-01-.58801E-01-.11814E+00
-.15731E+00-.21363E+00-.23228E+00-.24942E+00-.19600E+00-.55099E-01
.10997E+00.24432E+00.12406E+00.12263E+00.23957E+00.81600E-01
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.45131E-01-.14741E+00-.13056E+00-.18720E+00-.19722E+00-.16746E+00
-.25410E+00-.29896E-01.19547E+00.13839E+00.13160E+00.23733E+00
.80457E-01-.26044E-01-.82978E-01-.81452E-01-.62140E-01-.77743E-02
.47697E-01.10722E+00.18341E+00.18089E+00.15798E+00.69299E-01
.30691E-01.33746E-01.29091E-01.39807E-01-.53952E-02-.54706E-01
-.95109E-01-.13905E+00-.18560E+00-.17336E+00-.18749E+00-.15734E+00
-.76423E-01-.38499E-01.85460E-02.17312E-01.28479E-01.27443E-01
-.11968E-01-.72675E-01-.10915E+00-.54435E-01.12541E-01.92016E-01
.14772E+00.17487E+00.15941E+00.14870E+00.86442E-01.40518E-01
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-.22996E-01.36982E-01.10203E+00.81703E-01.15325E-01-.62638E-01
-.10632E+00-.12605E+00-.14138E+00-.14696E+00-.12055E+00-.61885E-01
-.99917E-02.52361E-01.62951E-01.11189E+00.12151E+00.78783E-01
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-.56583E-01.43597E-01.10422E+00.78576E-01.62000E-02-.63559E-01
-.13983E+00-.19776E+00-.21852E+00-.22796E+00-.17747E+00-.92185E-01
-.11075E-01.20199E-01.75246E-01.14078E+00.23039E+00.26104E+00
.23209E+00.17830E+00.13046E+00.11236E+00.65498E-01-.87342E-02
-.73898E-01-.82167E-01-.72326E-01-.10407E+00-.14697E+00-.15636E+00
-.54455E-01.77113E-01.23190E+00.12263E+00.12238E+00.18394E+00
.74149E-01-.55847E-01-.18387E+00-.24983E+00-.20451E+00-.13507E+00
.26781E-01.17991E+00.27754E+00.12930E+00.27174E+00.14837E+00
-.33866E-02-.11855E+00-.12099E+00-.39505E-01.53362E-01.97900E-01
.11498E+00.55848E-01-.55266E-01-.19949E+00-.23655E+00-.20700E+00
-.15537E-01.17372E+00.25345E+00.25427E+00.14014E+00-.12229E-01
-.17536E+00-.28311E+00-.12610E+00-.23779E+00-.79945E-01.96682E-01
.22331E+00.25964E+00.14988E+00-.49998E-02-.12750E+00-.17138E+00
-.20928E+00-.17782E+00-.17875E+00-.97919E-01.49548E-01.21680E+00
.27692E+00.25749E+00.22601E+00.19512E+00.16771E+00.10521E+00
-.19908E-02-.13673E+00-.18983E+00-.19630E+00-.16258E+00-.96024E-01
-.11699E-02.10126E+00.15475E+00.14971E+00.47543E-01-.31879E-01
-.17715E+00-.21817E+00-.18617E+00-.29307E-01.13057E+00.26549E+00

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.21266E+00 .51070E-01-.13530E+00-.25724E+00-.12081E+00-.23901E+00
-.12125E+00-.35143E-01 .58875E-01 .16677E+00 .19054E+00 .15028E+00
.63697E-01-.46077E-01-.11326E+00-.10228E+00-.10443E+00-.95734E-01
-.17227E+00-.21693E+00-.24310E+00-.20980E+00-.11650E+00-.52694E-01
-.18254E-01-.66583E-01-.14037E+00-.17393E+00-.18192E+00-.10839E+00
.38343E-01 .17247E+00 .24947E+00 .22739E+00 .16983E+00 .82905E-01
.20547E-01-.48892E-01-.10624E+00-.16763E+00-.15324E+00-.11582E+00
-.49669E-01-.43658E-01-.65724E-01-.48216E-01-.23272E-01 .14913E-01
.24860E-01 .47627E-01 .24072E-01-.10986E-02-.69297E-01-.13371E+00
-.15764E+00-.12491E+00-.26403E-01 .77642E-01 .18987E+00 .27306E+00
.27160E+00 .24414E+00 .17886E+00 .74545E-01-.59051E-02-.77163E-01
-.16768E+00-.22127E+00-.22829E+00-.26161E+00-.24314E+00-.16926E+00
-.26984E-01 .10819E+00 .19163E+00 .26675E+00 .13027E+00 .13078E+00
.12786E+00 .25359E+00 .14950E+00 .39384E-01-.35665E-01-.52398E-01
.75621E-02 .60736E-01 .13541E+00 .17471E+00 .89232E-01-.13701E-01
-.70475E-01-.62551E-01-.47033E-01-.47448E-01-.85192E-01-.11151E+00
-.10481E+00-.94568E-01-.73247E-01-.18382E-01 .59776E-01 .12688E+00
.89209E-01 .11966E-01-.74648E-01-.83129E-01-.15490E-01 .49524E-01
.75003E-01 .79794E-01 .65598E-01 .55285E-02-.11225E+00-.20014E+00
-.24996E+00-.28103E+00-.23964E+00-.22818E+00-.14759E+00-.33285E-01
.98177E-01 .24788E+00 .13801E+00 .13691E+00 .26678E+00 .13628E+00
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.23045E-01 .26283E-01 .60136E-01 .15337E+00 .25508E+00 .11864E+00
.28484E+00 .24350E+00 .12319E+00-.42858E-01-.17171E+00-.27246E+00
-.28184E+00-.24175E+00-.17567E+00-.87619E-01 .69560E-02 .13873E+00
.21676E+00 .17945E+00 .11791E+00 .79124E-01 .89189E-01 .11576E+00
.11372E+00 .63244E-01 .63167E-03-.61538E-01-.86169E-01-.12602E+00
-.17331E+00-.15640E+00-.74468E-01 .41324E-01 .13746E+00 .17865E+00
.18400E+00 .16612E+00 .14055E+00 .95723E-01 .34203E-01 .22695E-01
-.19791E-01-.26731E-01-.43174E-01-.81267E-01-.54094E-01-.39176E-01
.31524E-02 .39757E-01 .32649E-01 .34416E-01 .83143E-02-.56481E-01
-.82170E-01-.90896E-01-.78366E-01-.52352E-01-.17022E-01 .18238E-02
.29006E-02 .38664E-01 .18225E-01 .28986E-01 .13113E-01 .28840E-01
.23874E-01 .15713E-02-.13778E-01-.24275E-02 .16339E-01 .48888E-01
.56776E-01 .32278E-01-.14314E-01-.56491E-01-.59571E-01-.39567E-01
-.34341E-01-.36170E-01-.53455E-01-.30671E-01 .31504E-02 .39784E-01
.82779E-01 .84686E-01 .53113E-01-.14081E-01-.95564E-01-.12612E+00
-.97742E-01-.33024E-01-.36013E-02-.20130E-01-.70041E-01-.94678E-01
-.55641E-01 .22779E-01 .88497E-01 .10516E+00 .90496E-01 .69629E-01
.82512E-01 .63034E-01 .23000E-01-.32087E-01-.64891E-01-.10673E+00
-.11237E+00-.13287E+00-.10928E+00-.10251E+00-.11427E+00-.84176E-01
-.15070E-01 .61336E-01 .92116E-01 .89701E-01 .50525E-01-.11830E-01
-.58131E-01-.74333E-01-.88164E-01-.49401E-01-.13407E-01 .22113E-01
.44317E-01 .40329E-01 .71551E-01 .94935E-01 .99486E-01 .45253E-01
.19346E-01-.24332E-01-.83550E-01-.16609E+00-.21124E+00-.22925E+00
-.19138E+00-.94447E-01 .94849E-02 .11614E+00 .20687E+00 .23001E+00
.17657E+00 .64410E-01-.30301E-01-.95919E-01-.10511E+00-.84545E-01
-.30179E-01 .14832E-01 .72500E-01 .99913E-01 .68227E-01 .13075E-01

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-.29451E-01-.78361E-01-.85807E-01-.68795E-01-.13895E-01.72601E-01
.14996E+00.18324E+00.15592E+00.89515E-01-.12757E-02-.63774E-01
-.94550E-01-.10074E+00-.93901E-01-.82002E-01-.83480E-01-.56839E-01
-.50819E-01-.21553E-01.21449E-01.80029E-01.11316E+00.15455E+00
.18265E+00.16978E+00.13072E+00.66165E-01.32660E-01.18142E-01
.14676E-01.23385E-05-.24646E-01-.53757E-01-.44336E-01-.35147E-01
-.11741E-01-.89324E-02-.44334E-02.26168E-01.45326E-01.78009E-01
.81416E-01.70103E-01.37580E-01.13689E-01-.75172E-02-.20240E-01
-.21200E-01-.29557E-01-.20155E-01.34435E-02.25938E-01.26057E-01
.57885E-02-.22673E-01-.45122E-01-.46497E-01-.68247E-01-.77039E-01
-.80401E-01-.82844E-01-.79350E-01-.72805E-01-.70378E-01-.54274E-01
-.12796E-01.41383E-01.88732E-01.11989E+00.12420E+00.11484E+00
.79311E-01.15559E-01-.34911E-01-.94472E-01-.95902E-01-.41160E-01
-.35487E-02.38984E-01.73583E-01.78499E-01.63616E-01.13857E-01
-.40793E-01-.10368E+00-.12812E+00-.13839E+00-.12687E+00-.10189E+00
-.54977E-01-.11811E-02.53057E-01.82200E-01.94175E-01.10500E+00
.10994E+00.10867E+00.87869E-01.53655E-01.80345E-02-.95200E-02
-.22492E-01-.22602E-01-.56063E-02.33514E-01.53408E-01.59062E-01
.41500E-01.34128E-02-.25150E-01-.38047E-01-.31485E-01.16747E-02
.20627E-01.46317E-01.45810E-01.29857E-01-.50435E-02-.33815E-01
-.60235E-01-.90406E-01-.11499E+00-.11839E+00-.82716E-01-.16847E-01
.49525E-01.75137E-01.58711E-01.21317E-01-.29162E-01-.73798E-01
-.11246E+00-.14246E+00-.12993E+00-.75540E-01.52843E-03.67238E-01
.10265E+00.12436E+00.11021E+00.61216E-01-.19803E-02-.55235E-01
-.73328E-01-.63513E-01-.47535E-01-.34774E-01-.28503E-02.26090E-01
.41983E-01.53883E-01.36901E-01.57591E-02-.71679E-02-.33476E-02
.61659E-02.14735E-01.21902E-01.14383E-01.23941E-02.48383E-02
.15675E-01.27702E-01.37310E-01.22510E-01-.57718E-03-.16891E-01
-.29457E-01-.36756E-01-.34917E-01-.29380E-01-.10577E-01.52001E-02
.28543E-01.46935E-01.48902E-01.35453E-01.72895E-02-.29932E-01
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.48495E-01.49945E-01.38798E-01.21525E-01.66685E-02-.23041E-02
-.81886E-02-.15448E-01-.20188E-01-.26791E-01-.25801E-01-.33769E-01
-.42473E-01-.43801E-01-.31854E-01-.70511E-02.24472E-01.45807E-01
.60291E-01.60346E-01.56409E-01.40994E-01.19100E-01-.48814E-02
-.22922E-01-.32715E-01-.41595E-01-.38977E-01-.30982E-01-.91755E-02
.17049E-01.42476E-01.53637E-01.47749E-01.31801E-01.12575E-01
-.12068E-02-.82223E-02-.16824E-01-.20964E-01-.18135E-01-.10882E-01
.22319E-02.13124E-01.15135E-01.12039E-01.79394E-02.47201E-02
.43127E-02.21004E-02-.15288E-02-.55446E-03.54836E-03.11413E-03
-.48775E-02-.10159E-01-.15470E-01-.17022E-01-.14236E-01-.77846E-02
-.13647E-03.72147E-02.11260E-01.12929E-01.95630E-02.50243E-02
-.14670E-02-.65520E-02-.82939E-02-.62572E-02-.21291E-02.25145E-02
.63756E-02.87636E-02.80576E-02.57330E-02.26110E-02.94936E-03
.25234E-03.55318E-03.18807E-02.32660E-02.41180E-02.41483E-02
.35834E-02.29085E-02.24995E-02

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-.10594E-01-.95996E-02-.87368E-02-.80126E-02-.76006E-02-.74378E-02
-.85314E-02-.86454E-02-.10532E-01-.11751E-01-.14020E-01-.17974E-01
-.20922E-01-.24122E-01-.27994E-01-.29724E-01-.32210E-01-.33700E-01
-.37332E-01-.36244E-01-.35492E-01-.34208E-01-.29190E-01-.25028E-01
-.19129E-01-.13565E-01-.40892E-02-.27672E-02-.11510E-01-.20806E-01
.29732E-01-.35842E-01-.40618E-01-.40710E-01-.43664E-01-.40150E-01
.37542E-01-.28630E-01-.20654E-01-.66128E-02-.30040E-02-.16825E-01
-.31824E-01-.42324E-01-.53424E-01-.65410E-01-.73704E-01-.69560E-01
-.75940E-01-.71066E-01-.63826E-01-.55204E-01-.42934E-01-.30842E-01
-.16036E-01-.13218E-02-.13710E-01-.26604E-01-.43198E-01-.48020E-01
.57314E-01-.57334E-01-.58284E-01-.62280E-01-.55468E-01-.47064E-01
.37686E-01-.23324E-01-.10098E-01-.54158E-02-.11403E-01-.22802E-01
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.46456E-01-.43728E-01-.48390E-01-.33756E-01-.32214E-01-.18093E-01
.62538E-02-.36246E-02-.42614E-01-.49670E-01-.64466E-01-.81236E-01
-.87428E-01-.88766E-01-.91654E-01-.83786E-01-.74168E-01-.59444E-01
-.41276E-01-.62438E-02-.19595E-02-.24486E-01-.47730E-01-.56698E-01
.64502E-01-.70748E-01-.65468E-01-.50112E-01-.41706E-01-.24228E-01
.37036E-02-.28136E-01-.39672E-01-.52868E-01-.72790E-01-.76868E-01
-.81064E-01-.75320E-01-.70028E-01-.66006E-01-.60896E-01-.36090E-01
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.98060E-01-.13545E+00-.12637E+00-.16175E+00-.14992E+00-.14111E+00
.11180E+00-.72320E-01-.36942E-01-.13983E-01-.55886E-01-.13911E+00
-.17370E+00-.22176E+00-.27552E+00-.29302E+00-.30854E+00-.33210E+00
-.31140E+00-.29818E+00-.25196E+00-.19954E-00-.15295E+00-.88684E-01
-.14265E-01-.46524E-01-.98340E-01-.15067E+00-.20378E+00-.24022E+00
.28182E+00-.30954E+00-.32080E+00-.33692E+00-.32594E+00-.30598E+00
.27766E+00-.22870E+00-.20138E+00-.14122E+00-.87716E-01-.33478E-01
-.37082E-01-.96948E-01-.13055E+00-.19223E+00-.20400E+00-.23766E+00
-.24332E+00-.25416E+00-.23830E+00-.20412E+00-.17462E+00-.13041E+00
-.71958E-01-.12680E-01-.56666E-01-.12626E+00-.15986E+00-.20208E+00
.21672E+00-.23796E+00-.23180E+00-.25356E+00-.21972E+00-.17965E+00
.12408E+00-.76806E-01-.52308E-01-.36278E-01-.75894E-01-.13524E+00
-.16141E+00-.20268E+00-.23962E+00-.24466E+00-.29488E+00-.29200E+00
-.27438E+00-.26058E+00-.22352E+00-.18898E+00-.18225E+00-.14461E+00
-.96588E-01-.64262E-01-.16481E-01-.19182E-01-.22958E-01-.50242E-01
.75960E-01-.77194E-01-.89836E-01-.10389E+00-.11304E+00-.13612E+00
.12080E+00-.12855E+00-.14162E+00-.15315E+00-.14708E+00-.15544E+00
.17140E+00-.16102E+00-.15154E+00-.14915E+00-.13808E+00-.11768E+00
.85272E-01-.33208E-01-.18670E-02-.21066E-01-.61890E-01-.83792E-01
-.11728E+00-.14633E+00-.14592E+00-.16212E+00-.16667E+00-.12327E+00
-.10183E+00-.77522E-01-.30240E-01-.27990E-01-.75096E-01-.13024E+00
.19112E+00-.24126E+00-.32346E+00-.33422E+00-.38942E+00-.38778E+00
.40040E+00-.38732E+00-.37554E+00-.33934E+00-.24424E+00-.22136E+00

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.16956E+00	.97924E-01	.15099E-01	.68470E-01	.12454E+00	.21458E+00
-.27936E+00	-.33482E+00	-.39444E+00	-.42508E+00	-.42426E+00	-.40146E+00
-.40238E+00	-.36936E+00	-.33054E+00	-.26184E+00	-.21126E+00	-.14657E+00
-.74966E-01	.42062E-01	.12161E+00	.18489E+00	.24564E+00	.32786E+00
.37480E+00	.39724E+00	.40374E+00	.39262E+00	.41646E+00	.36320E+00
.30988E+00	.23090E+00	.16636E+00	.85060E-01	.10205E-01	.72714E-01
-.17645E+00	.25756E+00	-.32022E+00	-.40568E+00	-.44430E+00	-.42042E+00
-.45464E+00	-.44798E+00	-.42186E+00	-.35764E+00	-.29424E+00	-.23676E+00
-.15682E+00	.50166E-01	.25810E-01	.11357E+00	.22876E+00	.29804E+00
.31598E+00	.39158E+00	.40448E+00	.43132E+00	.37820E+00	.41414E+00
.31438E+00	.31240E+00	.26716E+00	.16936E+00	.13341E+00	.70828E-01
-.40236E-02	-.35968E-01	-.11153E+00	-.15126E+00	-.19468E+00	-.23280E+00
-.24226E+00	-.24864E+00	-.25688E+00	-.23552E+00	-.20892E+00	-.19823E+00
-.11641E+00	-.10467E+00	-.15184E-01	.44218E-01	.93776E-01	.12778E+00
.24500E+00	.25978E+00	.30394E+00	.33172E+00	.35220E+00	.34254E+00
.30240E+00	.26594E+00	.23756E+00	.17477E+00	.51078E-01	.27868E-04
-.89526E-01	-.10249E+00	-.19994E+00	-.29142E+00	-.29714E+00	-.32222E+00
-.32970E+00	-.35028E+00	-.30448E+00	-.24950E+00	-.15521E+00	-.90612E-01
.11511E-01	.86466E-01	.13477E+00	.20240E+00	.27628E+00	.26414E+00
.28128E+00	.29288E+00	.22442E+00	.14480E+00	.10798E+00	.83302E-02
-.10914E+00	-.16492E+00	-.22564E+00	-.31518E+00	-.34852E+00	-.40472E+00
-.37196E+00	-.38064E+00	-.31456E+00	-.23704E+00	-.16277E+00	-.60066E-01
.46780E-01	.14993E+00	.28240E+00	.37464E+00	.47516E+00	.24292E+00
.25754E+00	.24728E+00	.23726E+00	.44332E+00	.38006E+00	.27114E+00
.15538E+00	.15116E-01	.14064E+00	.14993E+00	.33242E+00	.38892E+00
-.46608E+00	-.46702E+00	-.47738E+00	-.48036E+00	-.47090E+00	-.37334E+00
-.31312E+00	-.18088E+00	-.89894E-01	.17206E-02	.81690E-01	.13987E+00
.26204E+00	.28396E+00	.34136E+00	.32508E+00	.31018E+00	.31882E+00
.26684E+00	.21808E+00	.12364E+00	.10921E+00	.10791E-01	.10203E+00
-.16236E+00	-.26128E+00	-.37508E+00	-.36676E+00	-.39074E+00	-.42368E+00
-.42532E+00	-.35852E+00	-.33424E+00	-.28364E+00	-.23062E+00	-.19224E+00
-.63518E-01	-.12137E-01	.90356E-01	.24434E+00	.32768E+00	.41574E+00
.24048E+00	.27710E+00	.28744E+00	.30652E+00	.30912E+00	.29578E+00
.26294E+00	.24834E+00	.40404E+00	.28734E+00	.15525E+00	.18618E-01
-.15940E+00	-.31224E+00	-.41384E+00	-.23404E+00	-.26874E+00	-.31018E+00
-.32850E+00	-.30484E+00	-.26168E+00	-.45844E+00	-.34600E+00	-.21458E+00
-.22714E-01	.14771E+00	.25880E+00	.40558E+00	.47630E+00	.26006E+00
.28228E+00	.26228E+00	.24312E+00	.39750E+00	.28534E+00	.18261E+00
.16745E-01	.12708E+00	.28600E+00	.40108E+00	.24396E+00	.24070E+00
-.23572E+00	-.23400E+00	-.35356E+00	-.30288E+00	-.14313E+00	.24388E-02
.17292E+00	.28460E+00	.38744E+00	.24860E+00	.27096E+00	.27910E+00
.29104E+00	.47542E+00	.38714E+00	.24842E+00	.58010E-01	.85364E-01
-.29730E+00	-.46074E+00	-.29726E+00	-.35570E+00	-.42148E+00	-.43922E+00
-.42010E+00	-.38804E+00	-.36458E+00	-.30220E+00	-.47368E+00	-.28958E+00
-.10058E+00	.65040E-01	.23060E+00	.39098E+00	.48262E+00	.24256E+00
.23616E+00	.45302E+00	.39868E+00	.30282E+00	.20156E+00	.80216E-01
-.46278E-01	-.19829E+00	-.29682E+00	-.40452E+00	-.43418E+00	-.46154E+00
-.45708E+00	-.45508E+00	-.35726E+00	-.33040E+00	-.23300E+00	-.13646E+00

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-.88064E-01	-.29770E-01	.40838E-01	.60904E-01	.94200E-01	.13973E+00
.10982E+00	.90100E-01	.74760E-01	.42030E-01	.47162E-01	.47596E-01
.46340E-01	.79124E-01	.91864E-01	.14476E+00	.15193E+00	.23438E+00
.26556E+00	.30236E+00	.37286E+00	.35844E+00	.35386E+00	.28910E+00
.22190E+00	.19764E+00	.97422E-01	.31964E-01	.13586E+00	.26656E+00
-.32236E+00	.47604E+00	.23558E+00	.24466E+00	.48288E+00	.44246E+00
-.33992E+00	.25126E+00	.77310E-01	.45012E-01	.25048E+00	.40604E+00
.27638E+00	.31888E+00	.37042E+00	.38798E+00	.39326E+00	.38036E+00
.35096E+00	.28474E+00	.24714E+00	.36746E+00	.20518E+00	.50312E-01
-.12633E+00	.29366E+00	.36694E+00	.44654E+00	.25546E+00	.27810E+00
-.27982E+00	.47376E+00	.48088E+00	.35456E+00	.26466E+00	.12626E+00
-.46768E-01	.10840E+00	.18184E+00	.30606E+00	.39698E+00	.42180E+00
.43918E+00	.45634E+00	.46926E+00	.37360E+00	.29422E+00	.24206E+00
.11301E+00	.56856E-01	.15550E-01	.68604E-01	.66796E-01	.14031E+00
-.13280E+00	.59620E-01	.84184E-01	.48432E-02	.21068E-01	.13337E+00
.19223E+00	.24514E+00	.25616E+00	.28400E+00	.29350E+00	.27526E+00
.26374E+00	.18481E+00	.10191E+00	.58800E-01	.51118E-01	.11527E+00
-.19787E+00	.21024E+00	.24650E+00	.20096E+00	.17346E+00	.11017E+00
-.13099E+00	.19471E-01	.43348E-01	.29980E-01	.46748E-01	.97772E-01
.60138E-01	.58446E-02	.29248E-01	.85384E-01	.16937E+00	.23562E+00
-.29638E+00	.32520E+00	.38952E+00	.37728E+00	.35482E+00	.33232E+00
-.24508E+00	.16953E+00	.29340E-01	.15788E-01	.14901E+00	.20808E+00
.27796E+00	.34576E+00	.34342E+00	.30264E+00	.27210E+00	.21326E+00
.61070E-01	.65300E-01	.25318E+00	.39820E+00	.25000E+00	.30878E+00
-.35404E+00	.38580E+00	.39230E+00	.39766E+00	.36262E+00	.31644E+00
-.23888E+00	.30992E+00	.11380E+00	.35488E-01	.25950E+00	.37396E+00
.24948E+00	.27932E+00	.30810E+00	.30420E+00	.29108E+00	.24850E+00
.41262E+00	.26826E+00	.11140E+00	.56692E-02	.13185E+00	.29156E+00
-.37810E+00	.47196E+00	.48056E+00	.24180E+00	.46534E+00	.39858E+00
-.32124E+00	.23890E+00	.90046E-01	.33706E-01	.14901E+00	.26386E+00
.39396E+00	.46040E+00	.24114E+00	.29404E+00	.31606E+00	.30760E+00
.31638E+00	.29628E+00	.27126E+00	.46176E+00	.39264E+00	.28236E+00
.18624E+00	.61976E-01	.83306E-01	.19413E+00	.31832E+00	.38126E+00
-.46470E+00	.47516E+00	.24408E+00	.23744E+00	.44680E+00	.45202E+00
-.32942E+00	.26102E+00	.16117E+00	.88108E-01	.88738E-02	.92956E-01
.17398E+00	.26814E+00	.31956E+00	.35794E+00	.37712E+00	.41026E+00
.35782E+00	.38732E+00	.37620E+00	.32446E+00	.26290E+00	.21104E+00
.14085E+00	.82924E-01	.36234E-01	.79450E-01	.19770E+00	.28268E+00
-.25532E+00	.37908E+00	.41880E+00	.45190E+00	.39860E+00	.43006E+00
-.41010E+00	.37142E+00	.29126E+00	.23612E+00	.17067E+00	.59152E-01
.22228E-01	.72948E-01	.22464E+00	.28696E+00	.34014E+00	.41998E+00
.23696E+00	.24290E+00	.27822E+00	.26772E+00	.28326E+00	.27872E+00
.25528E+00	.24022E+00	.43608E+00	.35422E+00	.24390E+00	.15056E+00
-.17262E-02	.12611E+00	.20700E+00	.29212E+00	.41708E+00	.48482E+00
-.23968E+00	.25000E+00	.24512E+00	.45814E+00	.35546E+00	.22602E+00
-.14839E+00	.48120E-01	.16808E+00	.31186E+00	.44866E+00	.27056E+00
.33728E+00	.37282E+00	.38174E+00	.40140E+00	.39722E+00	.36140E+00
.31826E+00	.26090E+00	.41712E+00	.23484E+00	.52302E-01	.13721E+00

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-.30396E+00-.23392E+00-.30678E+00-.38198E+00-.42416E+00-.47258E+00
-.48600E+00-.45904E+00-.46978E+00-.40520E+00-.38370E+00-.29044E+00
-.25650E+00-.38862E+00-.20118E+00-.85212E-01 .41402E-01 .18592E+00
.26518E+00 .34562E+00 .37864E+00 .46184E+00 .23676E+00 .24730E+00
.23674E+00 .23840E+00 .23360E+00 .46358E+00 .43262E+00 .42506E+00
.33916E+00 .34136E+00 .36214E+00 .31938E+00 .29962E+00 .22244E+00
.20286E+00 .12241E+00 .10480E+00 .46626E-02-.61580E-01-.13565E+00
-.22894E+00-.29460E+00-.40960E+00-.48212E+00-.25228E+00-.29158E+00
-.28654E+00-.30092E+00-.27724E+00-.25480E+00-.46634E+00-.35290E+00
-.19873E+00-.35182E-01 .12781E+00 .30748E+00 .46842E+00 .29578E+00
.35426E+00 .40160E+00 .45570E+00 .45406E+00 .43136E+00 .42198E+00
.39142E+00 .31274E+00 .24166E+00 .33962E+00 .14722E+00-.67522E-01
-.25942E+00-.41606E+00-.28456E+00-.36504E+00-.38228E+00-.42200E+00
-.38662E+00-.38926E+00-.35970E+00-.31240E+00-.23450E+00-.34362E+00
-.18145E+00-.52292E-01 .10722E+00 .24624E+00 .39458E+00 .47798E+00
.24730E+00 .24586E+00 .24724E+00 .44032E+00 .37914E+00 .30654E+00
.19602E+00 .11042E+00 .54190E-01-.45794E-01-.11365E+00-.12965E+00
-.14988E+00-.87450E-01-.12459E+00-.52530E-01-.22414E-01 .10739E-01
.75034E-01 .53490E-01 .46112E-01 .33348E-01-.42314E-01-.13287E+00
-.25822E+00-.34542E+00-.47660E+00-.29152E+00-.32186E+00-.35360E+00
-.39418E+00-.38034E+00-.36048E+00-.34258E+00-.28012E+00-.42832E+00
-.26358E+00-.53466E-01 .13462E+00 .33568E+00 .46618E+00 .30796E+00
.36828E+00 .40872E+00 .42728E+00 .43280E+00 .40122E+00 .35332E+00
.30952E+00 .46322E+00 .25034E+00 .71416E-01-.96772E-01-.26556E+00
-.46330E+00-.28644E+00-.33580E+00-.33560E+00-.34744E+00-.33330E+00
-.28756E+00-.23458E+00-.37786E+00-.21908E+00-.52136E-01 .11129E+00
.21908E+00 .34690E+00 .43168E+00 .23364E+00 .24480E+00 .24070E+00
.47072E+00 .40054E+00 .28734E+00 .19031E+00 .39090E-01-.80274E-01
-.20508E+00-.29840E+00-.36768E+00-.23352E+00-.25946E+00-.27026E+00
-.27412E+00-.26078E+00-.25966E+00-.48526E+00-.41876E+00-.36700E+00
-.25880E+00-.20290E+00-.83690E-01-.21722E-03 .62832E-01 .13425E+00
.14055E+00 .19541E+00 .25316E+00 .30392E+00 .28474E+00 .26166E+00
.23836E+00 .21554E+00 .19225E+00 .12440E+00 .50012E-01-.48172E-01
-.50128E-01-.14889E+00-.19789E+00-.29032E+00-.31626E+00-.34954E+00
-.39824E+00-.34158E+00-.32856E+00-.31510E+00-.29084E+00-.19505E+00
-.15617E+00-.78116E-01 .34590E-01 .13843E+00 .22400E+00 .32178E+00
.36132E+00 .43192E+00 .42608E+00 .44430E+00 .39646E+00 .36786E+00
.30748E+00 .22314E+00 .14609E+00-.15399E-01-.10807E+00-.16347E+00
-.27056E+00-.33026E+00-.34360E+00-.40820E+00-.36284E+00-.33968E+00
-.26790E+00-.18260E+00-.82396E-01 .79166E-01 .18460E+00 .28380E+00
.42644E+00 .48070E+00 .24380E+00 .26824E+00 .30052E+00 .27022E+00
.24998E+00 .47374E+00 .39974E+00 .31026E+00 .17241E+00 .40942E-01
-.81450E-01-.20314E+00-.22364E+00-.31490E+00-.33688E+00-.37476E+00
-.38216E+00-.37150E+00-.31232E+00-.26214E+00-.22148E+00-.11342E+00
-.42412E-01 .11140E+00 .15094E+00 .24496E+00 .29874E+00 .36996E+00
.42202E+00 .39234E+00 .39038E+00 .36388E+00 .34758E+00 .25190E+00
.17773E+00 .11245E+00 .51642E-01-.36210E-01-.69988E-01-.16659E+00
-.17886E+00-.19439E+00-.21072E+00-.20550E+00-.13333E+00-.16178E+00

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-.13295E+00-.11233E+00-.87060E-01-.81582E-01-.16066E-01 .11039E-01
.23808E-01 .12365E-01-.23844E-01 .21726E-01 .48588E-02-.17324E-01
-.38702E-01-.72954E-02-.91008E-01-.86292E-01-.67114E-01-.83112E-01
-.12227E+00-.11183E+00-.12772E+00-.10760E+00-.11760E+00-.15589E+00
-.13017E+00-.10992E+00-.12506E+00-.15347E+00-.17820E+00-.17245E+00
-.16972E+00-.16724E+00-.17318E+00-.10415E+00-.84394E-01-.15399E-01
-.64530E-02 .10124E+00 .14936E+00 .19880E+00 .28252E+00 .34630E+00
.40126E+00 .41758E+00 .48308E+00 .44526E+00 .45540E+00 .40106E+00
.32074E+00 .24196E+00 .13759E+00 .42038E-01-.66642E-01-.91904E-01
-.20326E+00-.31136E+00-.41036E+00-.41248E+00-.42972E+00-.40848E+00
-.37344E+00-.21248E+00-.19328E+00-.30298E-01 .60718E-01 .14917E+00
.28424E+00 .39200E+00 .40808E+00 .44734E+00 .38210E+00 .41110E+00
.35286E+00 .24046E+00 .10322E+00 .32492E-01-.10337E+00-.20380E+00
-.30606E+00-.35948E+00-.38948E+00-.40696E+00-.34990E+00-.30964E+00
-.20292E+00-.73520E-01 .36772E-01 .15574E+00 .26602E+00 .31748E+00
.40386E+00 .42666E+00 .37946E+00 .35496E+00 .25792E+00 .10340E+00
-.19150E-01-.18080E+00-.35900E+00-.24132E+00-.28502E+00-.34698E+00
-.36804E+00-.39556E+00-.36076E+00-.33564E+00-.26100E+00-.34498E+00
-.17442E+00 .49918E-01 .25772E+00 .46208E+00 .29966E+00 .38492E+00
.44278E+00 .46980E+00 .47492E+00 .46480E+00 .41882E+00 .33014E+00
.26094E+00 .30914E+00 .80974E-01-.11692E+00-.36794E+00-.27842E+00
-.33662E+00-.37120E+00-.39430E+00-.40476E+00-.37328E+00-.30734E+00
-.24788E+00-.34786E+00-.16492E+00-.26394E-02 .17831E+00 .28868E+00
.41608E+00 .44952E+00 .23340E+00 .45064E+00 .32596E+00 .19856E+00
.61606E-01-.14730E+00-.30584E+00-.46360E+00-.29608E+00-.34746E+00
-.38956E+00-.41884E+00-.42126E+00-.36364E+00-.35252E+00-.30918E+00
-.44050E+00-.29826E+00-.13945E+00 .20936E-01 .15427E+00 .27156E+00
.39792E+00 .46036E+00 .25442E+00 .24570E+00 .23626E+00 .41628E+00
.35236E+00 .26780E+00 .14204E+00 .11409E+00-.89144E-02-.98318E-01
-.16389E+00-.20674E+00-.18856E+00-.19550E+00-.17604E+00-.11939E+00
-.84084E-01 .35076E-02 .10571E+00 .20416E+00 .24168E+00 .28250E+00
.31022E+00 .34974E+00 .31514E+00 .24568E+00 .21258E+00 .16777E+00
.93154E-01 .99168E-02-.40118E-01-.11755E+00-.11706E+00-.16722E+00
-.11748E+00-.11019E+00-.28524E-01 .32512E-01 .96616E-01 .20148E+00
.28932E+00 .36180E+00 .38784E+00 .42338E+00 .44106E+00 .43512E+00
.39514E+00 .34910E+00 .25450E+00 .13741E+00-.44722E-01-.16140E+00
-.31898E+00-.23482E+00-.28848E+00-.35236E+00-.39134E+00-.42494E+00
-.45548E+00-.45112E+00-.42086E+00-.37892E+00-.35126E+00-.28784E+00
-.45530E+00-.29150E+00-.94122E-01 .11688E+00 .28520E+00 .23318E+00
.29276E+00 .34190E+00 .37996E+00 .40370E+00 .41636E+00 .41436E+00
.35996E+00 .30806E+00 .25540E+00 .32046E+00 .13473E+00-.56868E-01
-.23234E+00-.44122E+00-.29440E+00-.36984E+00-.40012E+00-.43048E+00
-.44264E+00-.42716E+00-.41372E+00-.35500E+00-.27720E+00-.41328E+00
-.24506E+00-.19104E-01 .13243E+00 .31058E+00 .40072E+00 .26926E+00
.28236E+00 .32096E+00 .32110E+00 .30634E+00 .27248E+00 .25478E+00
.37372E+00 .23526E+00 .96592E-01-.11862E-01-.12470E+00-.19165E+00
-.28918E+00-.35674E+00-.37822E+00-.39962E+00-.37816E+00-.35376E+00
-.29858E+00-.27044E+00-.22374E+00-.13936E+00-.56990E-01-.17067E-01

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.62014E-02	.43074E-01	.78814E-01	.85140E-01	.10690E+00	.10769E+00
.10954E+00	.93036E-01	.10313E+00	.93160E-01	.15010E+00	.10089E+00
.11880E+00	.15850E+00	.20560E+00	.16025E+00	.17064E+00	.22610E+00
.24554E+00	.23986E+00	.23858E+00	.19699E+00	.16825E+00	.13378E+00
.39034E-01	.80832E-01	.19909E+00	.27782E+00	.43570E+00	.25352E+00
.30204E+00	.32172E+00	.35048E+00	.37804E+00	.35070E+00	.32886E+00
.27650E+00	.45732E+00	.29388E+00	.13771E+00	.33698E-01	.16864E+00
.38294E+00	.48486E+00	.29408E+00	.33076E+00	.37104E+00	.37608E+00
.37398E+00	.35552E+00	.33074E+00	.28188E+00	.24742E+00	.39414E+00
.27032E+00	.13646E+00	.26022E-01	.15305E+00	.28472E+00	.37042E+00
.24062E+00	.26454E+00	.28122E+00	.29954E+00	.29902E+00	.25298E+00
.43874E+00	.33576E+00	.19869E+00	.41658E-02	.16245E+00	.29040E+00
.47266E+00	.31414E+00	.35628E+00	.40652E+00	.44636E+00	.44612E+00
.44704E+00	.42442E+00	.35834E+00	.31976E+00	.24376E+00	.32436E+00
.16680E+00	.33836E-01	.20426E+00	.35630E+00	.23738E+00	.27956E+00
.29688E+00	.29828E+00	.29776E+00	.28508E+00	.45104E+00	.32148E+00
.19245E+00	.64880E-02	.18739E+00	.40494E+00	.26634E+00	.32280E+00
.39206E+00	.44962E+00	.46884E+00	.46034E+00	.43428E+00	.37072E+00
.32868E+00	.26260E+00	.33036E+00	.13035E+00	.78032E-01	.27410E+00
.41628E+00	.26138E+00	.31490E+00	.35168E+00	.36848E+00	.35332E+00
.33674E+00	.29228E+00	.44716E+00	.33922E+00	.16602E+00	.23564E-01
.13082E+00	.23638E+00	.36078E+00	.46202E+00	.24908E+00	.48134E+00
.23532E+00	.40206E+00	.31638E+00	.24584E+00	.10028E+00	.50180E-02
.10907E+00	.19942E+00	.29726E+00	.36224E+00	.40602E+00	.38562E+00
.39980E+00	.33928E+00	.25392E+00	.17644E+00	.83604E-01	.38034E-01
.64772E-01	.10348E+00	.17364E+00	.22950E+00	.23726E+00	.24762E+00
.23968E+00	.21662E+00	.20738E+00	.21566E+00	.12649E+00	.11654E+00
.11699E+00	.65832E-01	.45842E-01	.33666E-01	.12687E-02	.20028E-01
.21028E-01	.11082E-01	.73106E-02	.20380E-01	.99940E-02	.28060E-01
.49916E-02	.86264E-03	.14457E-01	.22028E-01	.87880E-01	.70322E-01
.87198E-01	.10199E+00	.14834E+00	.17194E+00	.15375E+00	.13465E+00
.14864E+00	.20840E+00	.17302E+00	.15634E+00	.14686E+00	.11943E+00
.81126E-01	.33668E-01	.33258E-01	.74914E-01	.10864E+00	.15741E+00
.16744E+00	.19038E+00	.23446E+00	.22176E+00	.24796E+00	.23964E+00
.20786E+00	.18158E+00	.15899E+00	.95162E-01	.10828E+00	.73200E-01
.47214E-01	.23012E-01	.37014E-01	.59968E-01	.94246E-01	.12518E+00
.14586E+00	.13047E+00	.16019E+00	.15222E+00	.13916E+00	.11114E+00
.94894E-01	.90278E-01	.12771E-01	.15686E-01	.50662E-01	.11905E+00
.14650E+00	.14159E+00	.15880E+00	.17995E+00	.13694E+00	.12424E+00
.62012E-01	.95878E-02	.70832E-01	.16447E+00	.24298E+00	.32014E+00
.35686E+00	.46634E+00	.23692E+00	.25880E+00	.24926E+00	.24870E+00
.44336E+00	.40056E+00	.27382E+00	.16823E+00	.36058E-01	.77940E-01
.20170E+00	.33348E+00	.45696E+00	.26622E+00	.29510E+00	.33166E+00
.32790E+00	.32744E+00	.30582E+00	.28780E+00	.27108E+00	.46752E+00
.36582E+00	.28828E+00	.17500E+00	.83556E-01	.17877E-01	.10090E+00
.16405E+00	.21166E+00	.31110E+00	.35184E+00	.37938E+00	.38266E+00
.40450E+00	.38364E+00	.36460E+00	.33840E+00	.29816E+00	.22808E+00
.18227E+00	.13573E+00	.43528E-01	.49876E-03	.81822E-01	.12311E+00

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.17388E+00	.22868E+00	.26756E+00	.33484E+00	.33004E+00	.35784E+00
.38008E+00	.39480E+00	.41196E+00	.36146E+00	.34748E+00	.30466E+00
.25370E+00	.22146E+00	.16517E+00	.11288E+00	.46482E-01	.25116E-01
-.10536E+00	-.16975E+00	-.22664E+00	-.27032E+00	-.30780E+00	-.30820E+00
-.34054E+00	-.30450E+00	-.28594E+00	-.27384E+00	-.24876E+00	-.19016E+00
-.14837E+00	-.95730E-01	-.47426E-01	-.15779E-01	.10279E-01	.38070E-01
.84550E-01	.78926E-01	.10931E+00	.10256E+00	.92294E-01	.95800E-01
.90000E-01	.71024E-01	.56088E-01	.23146E-01	.23300E-02	.21462E-01
-.50984E-01	-.71506E-01	-.11656E+00	-.13210E+00	-.13927E+00	-.15882E+00
-.16300E+00	-.16685E+00	-.18288E+00	-.18043E+00	-.15082E+00	-.16713E+00
-.14753E+00	-.13863E+00	-.13587E+00	-.11011E+00	-.10876E+00	-.10727E+00
-.12475E+00	-.90820E-01	-.90672E-01	-.11558E+00	-.96794E-01	-.87648E-01
-.61578E-01	-.36540E-01	-.23330E-01	.19633E-01	.27022E-01	.62776E-01
.78312E-01	.10005E+00	.11158E+00	.11500E+00	.10599E+00	.10386E+00
.85766E-01	.56718E-01	.33528E-01	.10134E-01	.32808E-01	.98102E-01
-.11678E+00	-.15487E+00	-.17844E+00	-.20326E+00	-.21548E+00	-.22346E+00
-.22048E+00	-.21578E+00	-.18198E+00	-.14756E+00	-.11936E+00	-.69752E-01
-.30094E-01	.20542E-01	.66962E-01	.10324E+00	.15681E+00	.20926E+00
.23116E+00	.25652E+00	.27802E+00	.27688E+00	.27986E+00	.24588E+00
.21750E+00	.16971E+00	.12016E+00	.77638E-01	.39886E-01	.11836E-01
-.44072E-01	-.86370E-01	-.12701E+00	-.12687E+00	-.15762E+00	-.17057E+00
-.15267E+00	-.13724E+00	-.13353E+00	-.11429E+00	-.80360E-01	-.62844E-01
-.32772E-01	-.89090E-02	.18037E-01	.40072E-01	.49368E-01	.85656E-01
.98116E-01	.11837E+00	.14298E+00	.15369E+00	.16222E+00	.15939E+00
.17711E+00	.16709E+00	.16220E+00	.15106E+00	.13374E+00	.10737E+00
.81884E-01	.42188E-01	.13853E-01	.28530E-01	.56652E-01	.90246E-01
-.13310E+00	-.16079E+00	-.17691E+00	-.19912E+00	-.20352E+00	-.21404E+00
-.20798E+00	-.20086E+00	-.17057E+00	-.15554E+00	-.12354E+00	-.89582E-01
-.55154E-01	-.18740E-01	.10072E-01	.42870E-01	.76464E-01	.98610E-01
.12047E+00	.13250E+00	.13532E+00	.13867E+00	.12262E+00	.11504E+00
.86638E-01	.66598E-01	.33670E-01	.22680E-02	.34024E-01	.71698E-01
-.10747E+00	-.13444E+00	-.17406E+00	-.19256E+00	-.20306E+00	-.22004E+00
-.21952E+00	-.21798E+00	-.20082E+00	-.18841E+00	-.17138E+00	-.14227E+00
-.12580E+00	-.99968E-01	-.72490E-01	-.51122E-01	-.33244E-01	-.19539E-01
-.11092E-02	.46546E-02	.69544E-02	.10442E-01	.98416E-02	.11931E-01
.36848E-02	.52256E-02	-.96862E-03	.24126E-02	.39736E-02	.31518E-02
-.52190E-02	-.80974E-02	-.97564E-02	.12356E-01	.14249E-01	.13324E-01
-.19006E-01	-.16706E-01	-.29902E-01	.34636E-01	.39388E-01	.48774E-01
-.60020E-01	-.61764E-01	-.70720E-01	.74088E-01	.83488E-01	.86916E-01
-.86286E-01	-.89504E-01	-.84730E-01	.79828E-01	.72180E-01	.61966E-01
-.55628E-01	.44794E-01	.32100E-01	.24364E-01	.17880E-01	.70430E-02
.42456E-04	.23012E-02	.50304E-02	.73682E-02	.67480E-02	.25574E-02
.14044E-02	.36194E-02	.61568E-02	.10694E-01	.14002E-01	.16732E-01
-.19803E-01	-.21140E-01	-.23680E-01	-.23722E-01	-.24168E-01	-.24756E-01
-.24002E-01	-.24648E-01	-.24316E-01	-.24650E-01	-.25368E-01	-.25490E-01
-.25924E-01	-.25958E-01	-.25724E-01			

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-.25399E-02-.31179E-02-.35777E-02-.38585E-02-.43235E-02-.48043E-02
-.53627E-02-.65512E-02-.72515E-02-.93942E-02-.11619E-01-.14055E-01
-.16982E-01-.20383E-01-.22739E-01-.25759E-01-.28363E-01-.30679E-01
-.31991E-01-.31846E-01-.29495E-01-.25962E-01-.21035E-01-.13788E-01
-.56598E-02-.62689E-02-.16927E-01-.29806E-01-.41436E-01-.55574E-01
-.65703E-01-.74670E-01-.83643E-01-.87133E-01-.90297E-01-.88340E-01
-.83223E-01-.75310E-01-.63453E-01-.48469E-01-.30925E-01-.13201E-01
-.52388E-02-.27237E-01-.43750E-01-.62520E-01-.78177E-01-.92659E-01
-.10279E+00-.10732E+00-.11598E+00-.11709E+00-.11409E+00-.10801E+00
-.10223E+00-.95577E-01-.84278E-01-.71430E-01-.59231E-01-.44637E-01
-.32330E-01-.18486E-01-.61171E-02-.85025E-02-.16447E-01-.28787E-01
-.34945E-01-.45426E-01-.51307E-01-.54846E-01-.63852E-01-.69468E-01
-.68376E-01-.75888E-01-.75564E-01-.78641E-01-.82535E-01-.83716E-01
-.80649E-01-.79479E-01-.76770E-01-.73623E-01-.68326E-01-.63134E-01
-.55055E-01-.46211E-01-.40177E-01-.27794E-01-.21002E-01-.94842E-02
-.29510E-02-.71243E-02-.14102E-01-.20032E-01-.17384E-01-.30414E-01
-.31622E-01-.29299E-01-.35035E-01-.35179E-01-.37504E-01-.41868E-01
-.47498E-01-.45197E-01-.51370E-01-.48284E-01-.49311E-01-.48806E-01
-.47041E-01-.41608E-01-.42302E-01-.33216E-01-.30810E-01-.24410E-01
-.25556E-01-.23193E-01-.17841E-01-.19335E-01-.18436E-01-.13162E-01
-.11243E-01-.10900E-01-.85326E-02-.14201E-01-.94177E-02-.76139E-02
-.14287E-01-.26248E-01-.34525E-01-.48809E-01-.74724E-01-.91131E-01
-.11072E+00-.13647E+00-.15088E+00-.16542E+00-.17241E+00-.17653E+00
-.17336E+00-.16650E+00-.14959E+00-.12100E+00-.82601E-01-.42144E-01
-.35269E-02-.62912E-01-.13238E+00-.18461E+00-.23916E+00-.28972E+00
-.32979E+00-.35294E+00-.36720E+00-.35609E+00-.33998E+00-.30720E+00
-.26221E+00-.19610E+00-.12578E+00-.46438E-01-.29172E-01-.10572E+00
-.16861E+00-.23573E+00-.27993E+00-.31260E+00-.32961E+00-.33987E+00
-.33370E+00-.30231E+00-.26463E+00-.21212E+00-.16407E+00-.99922E-01
-.39357E-01-.17010E-01-.61781E-01-.11872E+00-.14723E+00-.17702E+00
-.18661E+00-.19184E+00-.17270E+00-.15365E+00-.12245E+00-.78080E-01
-.31441E-01-.22677E-01-.70566E-01-.11226E+00-.16588E+00-.19154E+00
-.22429E+00-.23244E+00-.22994E+00-.21164E+00-.18907E+00-.15441E+00
-.11573E+00-.65754E-01-.18060E-01-.55569E-01-.95407E-01-.14369E+00
-.18947E+00-.22567E+00-.25490E+00-.26818E+00-.26735E+00-.26750E+00
-.24940E+00-.22519E+00-.18352E+00-.13762E+00-.94287E-01-.36571E-01
-.24683E-01-.58457E-01-.11481E+00-.17086E+00-.21013E+00-.24089E+00
-.26925E+00-.27781E+00-.28927E+00-.28123E+00-.25854E+00-.23737E+00
-.19669E+00-.15583E+00-.10511E+00-.44223E-01-.85165E-02-.72764E-01
-.12742E+00-.16864E+00-.20712E+00-.23395E+00-.24691E+00-.26451E+00
-.25624E+00-.24164E+00-.21279E+00-.17980E+00-.14065E+00-.10135E+00
-.69808E-01-.22970E-01-.12254E-01-.58940E-01-.80903E-01-.86689E-01
-.12773E+00-.13706E+00-.14057E+00-.14116E+00-.12406E+00-.12025E+00
-.94880E-01-.91497E-01-.61452E-01-.49585E-01-.43839E-01-.20887E-01
-.23286E-01-.33782E-01-.65299E-02-.28690E-01-.36140E-01-.60491E-01
-.49007E-01-.70823E-01-.75864E-01-.64106E-01-.56637E-01-.49175E-01
-.27934E-01-.47547E-02-.15962E-01-.50782E-01-.89224E-01-.13197E+00
-.17563E+00-.18034E+00-.19648E+00-.21188E+00-.21711E+00-.21603E+00

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-.20192E+00-.19448E+00-.16412E+00-.14562E+00-.10890E+00-.81757E-01
-.54248E-01-.41382E-01-.24984E-02-.47998E-02-.95276E-02-.21742E-01
.27265E-01-.16899E-01-.47762E-02-.15812E-01-.38693E-01-.44825E-01
-.51869E-01-.64463E-01-.81008E-01-.60015E-01-.54465E-01-.38210E-01
-.25300E-01-.54344E-02-.32062E-01-.49044E-01-.76691E-01-.10353E+00
.12831E+00-.16316E+00-.16381E+00-.15581E+00-.16356E+00-.12777E+00
.11652E+00-.95742E-01-.60336E-01-.17560E-01-.22216E-01-.45549E-01
-.61422E-01-.66221E-01-.74035E-01-.65959E-01-.16806E-01-.12539E-01
.69415E-01-.11910E+00-.19661E+00-.27291E+00-.33345E+00-.39838E+00
.45613E+00-.50486E+00-.51352E+00-.25352E+00-.25719E+00-.49900E+00
.45688E+00-.37489E+00-.26119E+00-.13944E+00-.28500E-02-.15418E+00
-.30164E+00-.43845E+00-.27410E+00-.31874E+00-.37660E+00-.39249E+00
-.41885E+00-.42304E+00-.41455E+00-.37896E+00-.33069E+00-.26230E+00
-.41655E+00-.27300E+00-.10418E+00-.67301E-01-.24219E+00-.37374E+00
.48655E+00-.26705E+00-.30518E+00-.30179E+00-.30828E+00-.28594E+00
.53309E+00-.43956E+00-.33668E+00-.22331E+00-.81810E-01-.43491E-01
-.13525E+00-.24576E+00-.29955E+00-.35850E+00-.40635E+00-.42434E+00
-.38934E+00-.35430E+00-.31692E+00-.24165E+00-.14331E+00-.90737E-01
-.19790E-04-.70759E-01-.13475E+00-.19571E+00-.25046E+00-.29060E+00
.31349E+00-.31226E+00-.27230E+00-.25381E+00-.19633E+00-.11988E+00
.61135E-01-.45843E-01-.12287E+00-.18508E+00-.25833E+00-.31875E+00
-.35970E+00-.37555E+00-.36641E+00-.34637E+00-.33105E+00-.24601E+00
-.16776E+00-.87953E-01-.36418E-01-.15019E+00-.27304E+00-.36879E+00
.49166E+00-.25644E+00-.29875E+00-.31106E+00-.32438E+00-.31114E+00
.28315E+00-.25478E+00-.44545E+00-.31601E+00-.18564E+00-.37746E-01
-.11940E+00-.24921E+00-.37767E+00-.46546E+00-.25648E+00-.28004E+00
-.28836E+00-.28300E+00-.25551E+00-.47679E+00-.39692E+00-.24369E+00
-.70094E-01-.72284E-01-.21861E+00-.36965E+00-.53113E+00-.30236E+00
.34621E+00-.38450E+00-.40793E+00-.41716E+00-.39507E+00-.37989E+00
.34221E+00-.29165E+00-.49831E+00-.37121E+00-.20955E+00-.66009E-01
-.91468E-01-.25310E+00-.41476E+00-.25630E+00-.31190E+00-.36692E+00
-.41561E+00-.44384E+00-.47356E+00-.48050E+00-.48662E+00-.47592E+00
-.45369E+00-.42244E+00-.37587E+00-.32875E+00-.26054E+00-.40980E+00
-.25862E+00-.11112E+00-.46105E-01-.19188E+00-.30910E+00-.43694E+00
.25394E+00-.29885E+00-.32042E+00-.34959E+00-.36826E+00-.38054E+00
.38668E+00-.38526E+00-.39157E+00-.37797E+00-.36275E+00-.34446E+00
.31827E+00-.28952E+00-.26138E+00-.43757E+00-.36219E+00-.27195E+00
.12661E+00-.22674E-02-.12254E+00-.23592E+00-.37012E+00-.50100E+00
-.27614E+00-.31993E+00-.35983E+00-.39349E+00-.42545E+00-.43225E+00
-.43813E+00-.44339E+00-.42511E+00-.41101E+00-.38283E+00-.35605E+00
-.31275E+00-.27641E+00-.48491E+00-.37851E+00-.25348E+00-.15910E+00
-.45576E-01-.87853E-01-.20314E+00-.29484E+00-.38717E+00-.45729E+00
.25378E+00-.27504E+00-.29015E+00-.29663E+00-.30462E+00-.29764E+00
.29269E+00-.26237E+00-.52730E+00-.47708E+00-.39857E+00-.34450E+00
.28555E+00-.21914E+00-.14884E+00-.10349E+00-.37440E-01-.10044E-01
-.31080E-01-.63298E-01-.85288E-01-.11388E+00-.13640E+00-.18122E+00
-.22580E+00-.24194E+00-.30676E+00-.36186E+00-.38821E+00-.41039E+00
-.44578E+00-.45753E+00-.45009E+00-.44178E+00-.40740E+00-.38555E+00

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-.33992E+00	-.23911E+00	-.13631E+00	-.57534E-01	.68350E-01	.20111E+00
.32454E+00	.46496E+00	.26497E+00	.31481E+00	.36195E+00	.38968E+00
.41479E+00	.42092E+00	.42838E+00	.41202E+00	.38048E+00	.33753E+00
.28456E+00	.48149E+00	.30850E+00	.15481E+00	-.25977E-01	.18116E+00
-.34137E+00	-.48489E+00	-.28517E+00	-.33428E+00	-.37542E+00	-.39490E+00
-.40749E+00	-.42112E+00	-.41531E+00	-.39003E+00	-.37141E+00	-.33203E+00
-.29962E+00	-.53971E+00	-.47954E+00	-.37592E+00	-.25065E+00	-.15804E+00
-.61637E-01	-.94952E-02	.79864E-01	.13716E+00	.17562E+00	.19762E+00
.20409E+00	.21696E+00	.19003E+00	.15901E+00	.16173E+00	.86810E-01
.49260E-01	.14590E-02	-.33417E-01	.82021E-01	.11272E+00	-.14336E+00
-.14572E+00	-.16497E+00	-.16253E+00	-.13609E+00	-.12190E+00	-.95420E-01
-.69515E-01	-.44546E-03	.21258E-01	.10982E+00	.19047E+00	.22471E+00
.28632E+00	.37919E+00	.44211E+00	.50832E+00	.26240E+00	.26931E+00
.28523E+00	.29820E+00	.29064E+00	.28318E+00	.25588E+00	.49595E+00
.41154E+00	.30955E+00	.22693E+00	.12679E+00	.24425E-01	-.82068E-01
-.19242E+00	-.28053E+00	-.36366E+00	-.44438E+00	-.50551E+00	-.25712E+00
-.27228E+00	-.27181E+00	-.26902E+00	-.25849E+00	-.50497E+00	-.45329E+00
-.39761E+00	-.33398E+00	-.25092E+00	-.19343E+00	-.12809E+00	-.43420E-01
.25354E-01	.76080E-01	.10751E+00	.19286E+00	.20766E+00	.24123E+00
.27009E+00	.26672E+00	.26866E+00	.28489E+00	.25178E+00	.23240E+00
.18677E+00	.18412E+00	.14935E+00	.14237E+00	.10191E+00	.86465E-01
.73399E-01	.48531E-01	.27506E-01	.44237E-01	.51029E-01	.39814E-01
.53947E-01	.14019E-01	.29056E-01	-.24626E-02	-.48810E-01	-.87632E-01
-.12778E+00	-.18067E+00	-.24211E+00	-.29332E+00	-.37354E+00	-.41893E+00
-.44503E+00	-.48320E+00	-.50323E+00	-.48261E+00	-.46232E+00	-.43932E+00
-.34068E+00	-.26888E+00	-.17982E+00	-.79147E-01	.23001E-01	.13796E+00
.23525E+00	.32088E+00	.38448E+00	.42208E+00	.48042E+00	.45445E+00
.43148E+00	.40089E+00	.32679E+00	.21105E+00	.11819E+00	-.57113E-02
-.12175E+00	-.27377E+00	-.39538E+00	-.50067E+00	-.27608E+00	-.29528E+00
-.30858E+00	-.31552E+00	-.29160E+00	-.26459E+00	-.45848E+00	-.33058E+00
-.18117E+00	-.22229E-01	.14731E+00	.30154E+00	.46910E+00	.29387E+00
.34755E+00	.37255E+00	.40955E+00	.41213E+00	.40317E+00	.37533E+00
.34924E+00	.29585E+00	.49982E+00	.38092E+00	.22581E+00	.93775E-01
-.42685E-01	-.13558E+00	-.26447E+00	-.33832E+00	-.40544E+00	-.43069E+00
-.46554E+00	-.47698E+00	-.43193E+00	-.41642E+00	-.36212E+00	-.31523E+00
-.27842E+00	-.24666E+00	-.24030E+00	-.20337E+00	-.21406E+00	-.20994E+00
-.20701E+00	-.22568E+00	-.22635E+00	-.21188E+00	-.22439E+00	-.19967E+00
-.17085E+00	-.13035E+00	-.68488E-01	.11673E-01	.84652E-01	.18843E+00
.26287E+00	.36327E+00	.45641E+00	.52625E+00	.26851E+00	.30052E+00
.29898E+00	.30009E+00	.28494E+00	.53991E+00	.45661E+00	.35763E+00
.27633E+00	.16869E+00	.30323E-01	.12717E+00	.23713E+00	-.32160E+00
-.42548E+00	-.51046E+00	-.25753E+00	-.27904E+00	-.28581E+00	-.28675E+00
-.28107E+00	-.25657E+00	-.47392E+00	-.39721E+00	-.30127E+00	-.20484E+00
-.10495E+00	.23206E-01	.11322E+00	.20796E+00	.32189E+00	.38376E+00
.42993E+00	.48790E+00	.53752E+00	.52792E+00	.51716E+00	.49366E+00
.45497E+00	.39576E+00	.33110E+00	.29586E+00	.20454E+00	.19585E+00
.11275E+00	.55685E-01	.16290E-01	-.34782E-02	-.52537E-01	-.75150E-01
-.10239E+00	-.13514E+00	-.14120E+00	-.17339E+00	-.19754E+00	-.21153E+00

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-.22242E+00-.21610E+00-.20421E+00-.22111E+00-.21545E+00-.20973E+00
-.20430E+00-.17145E+00-.13045E+00-.12955E+00-.89778E-01-.54849E-01
-.47527E-02.59994E-01.11356E+00.14544E+00.20607E+00.25404E+00
.28256E+00.31690E+00.30568E+00.33243E+00.34468E+00.34267E+00
.29112E+00.27033E+00.20681E+00.16531E+00.11442E+00.63797E-01
-.52669E-02-.48782E-01-.13283E+00-.15471E+00-.20487E+00-.25504E+00
-.28461E+00-.28953E+00-.28291E+00-.28491E+00-.28268E+00-.25568E+00
-.23408E+00-.18539E+00-.15740E+00-.10718E+00-.62235E-01-.22089E-01
-.23675E-02.80878E-02.30421E-01.17876E-01.28941E-02-.50167E-01
-.53505E-01-.11724E+00-.14756E+00-.17723E+00-.18448E+00-.19818E+00
-.20869E+00-.16473E+00-.12013E+00-.36898E-01.40989E-01.13969E+00
.24241E+00.35886E+00.47987E+00.28288E+00.32283E+00.34664E+00
.37532E+00.37593E+00.36936E+00.34517E+00.31432E+00.26805E+00
.44455E+00.28893E+00.10543E+00-.68204E-01-.23409E+00-.43042E+00
-.27970E+00-.34159E+00-.41112E+00-.45737E+00-.47861E+00-.50298E+00
-.49998E+00-.49159E+00-.45052E+00-.40748E+00-.34358E+00-.28001E+00
-.40884E+00-.25884E+00-.71384E-01.71604E-01.22917E+00.36154E+00
.47513E+00.26146E+00.28982E+00.29952E+00.30063E+00.29090E+00
.26871E+00.52072E+00.46246E+00.37376E+00.28616E+00.20708E+00
.13437E+00.84438E-01.18430E-01-.78805E-02-.34096E-01-.21384E-01
-.37736E-01-.38294E-01-.41357E-01.11658E-01.43947E-01.65033E-01
.84198E-01.81053E-01.96904E-01.86427E-01.54867E-01.42613E-01
.29505E-01-.17102E-01-.78291E-01-.11894E+00-.17857E+00-.22034E+00
-.28670E+00-.31367E+00-.34800E+00-.38287E+00-.39703E+00-.38770E+00
-.36733E+00-.33523E+00-.27508E+00-.22422E+00-.16373E+00-.74281E-01
.67106E-02.84854E-01.16029E+00.23132E+00.30556E+00.35640E+00
.39675E+00.41980E+00.41451E+00.42126E+00.39850E+00.34702E+00
.30358E+00.23015E+00.14560E+00.89104E-01-.16799E-01-.99226E-01
-.17728E+00-.23449E+00-.33464E+00-.41659E+00-.44303E+00-.48010E+00
-.51391E+00-.25362E+00-.26435E+00-.26362E+00-.25303E+00-.51372E+00
-.48146E+00-.44624E+00-.37384E+00-.31159E+00-.23959E+00-.14344E+00
-.70295E-01.20764E-01.12540E+00.23631E+00.31332E+00.44178E+00
.52848E+00.28682E+00.32216E+00.34329E+00.34742E+00.36604E+00
.34844E+00.32817E+00.31283E+00.27575E+00.49699E+00.36481E+00
.28625E+00.14742E+00.37934E-01-.83950E-01-.18280E+00-.25903E+00
-.30571E+00-.37334E+00-.37502E+00-.38836E+00-.38440E+00-.35966E+00
-.32782E+00-.25656E+00-.21379E+00-.15593E+00-.11323E+00-.56751E-01
-.36341E-01-.15676E-01.32880E-01.61551E-01.49140E-01.62068E-01
.83974E-01.91124E-01.74512E-01.89352E-01.71524E-01.40666E-01
.47952E-01.18508E-01.66414E-02-.45486E-02-.34164E-01-.39276E-01
-.67855E-01-.87401E-01-.10167E+00-.89018E-01-.93786E-01-.10771E+00
-.98401E-01-.71096E-01-.928E-01-.39090E-01.42428E-02.20600E-01
.44499E-01.84954E-01.13518E+00.13974E+00.18252E+00.18693E+00
.21924E+00.22213E+00.23300E+00.22076E+00.21011E+00.20512E+00
.17266E+00.14207E+00.10661E+00.51591E-01.82007E-02-.29706E-01
-.97360E-01-.11100E+00-.14677E+00-.18190E+00-.19244E+00-.20046E+00
-.20002E+00-.16299E+00-.15975E+00-.13261E+00-.11765E+00-.83142E-01
-.46612E-01-.14553E-01.38160E-01.31953E-01.56338E-01.72550E-01

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.62090E-01	.42180E-01	.31262E-01	.94318E-02	.40052E-01	.82301E-01
-.10122E+00	.16371E+00	-.20449E+00	-.25922E+00	.28135E+00	.33244E+00
-.36445E+00	.37946E+00	-.38165E+00	.39016E+00	.38037E+00	.36841E+00
-.35390E+00	.34532E+00	-.29222E+00	.24274E+00	.16363E+00	.91632E-01
-.21026E-01	.78656E-01	.16608E+00	.26885E+00	.37956E-00	.47019E+00
.26396E+00	.30028E+00	.32814E+00	.35811E+00	.35672E+00	.36405E+00
.34802E+00	.33230E+00	.30433E+00	.27824E+00	.50476E+00	.39904E+00
.29910E+00	.20265E+00	.66511E-01	.45501E-01	.14460E+00	.26463E+00
-.36753E+00	.48589E+00	-.26683E+00	.30049E+00	.32364E+00	.34434E+00
-.36737E+00	.36561E+00	-.35346E+00	.34500E+00	.31524E+00	.27968E+00
-.50691E+00	.39601E+00	-.27241E+00	.15818E+00	.56995E-01	.67328E-01
.16544E+00	.24123E+00	.30632E+00	.35848E+00	.40564E+00	.41898E+00
.37872E+00	.36872E+00	.29177E+00	.23962E+00	.13854E+00	.75267E-01
-.19949E-01	.10209E+00	.14638E+00	.21309E+00	.25023E+00	.24741E+00
-.22651E+00	.20790E+00	.16461E+00	.78309E-01	.94422E-02	.63112E-01
.14483E+00	.23403E+00	.30231E+00	.34197E+00	.40737E+00	.44009E+00
.42061E+00	.40967E+00	.40276E+00	.36414E+00	.34450E+00	.28271E+00
.25439E+00	.19496E+00	.11524E+00	.59810E-01	.16043E-02	.41888E-01
-.94360E-01	.15107E+00	.19759E+00	.23961E+00	.28956E+00	.31822E+00
-.32662E+00	.33859E+00	.12412E+00	.30609E+00	.24614E+00	.22673E+00
-.14055E+00	.77121E-01	.15040E-01	.73754E-01	.14888E+00	.21360E+00
.27524E+00	.34831E+00	.38650E+00	.42540E+00	.45736E+00	.46833E+00
.48918E+00	.50212E+00	.48095E+00	.47138E+00	.45142E+00	.41403E+00
.38263E+00	.31361E+00	.24730E+00	.16176E+00	.87593E-01	.18615E-01
-.81385E-01	.18440E+00	.25733E+00	.33941E+00	.40077E+00	.43724E+00
-.48633E+00	.51651E+00	.25368E+00	.25606E+00	.51455E+00	.48436E+00
-.44924E+00	.40667E+00	.35634E+00	.33470E+00	.25743E+00	.18746E+00
-.12026E+00	.54306E-01	.29908E-01	.11041E+00	.18348E+00	.23401E+00
.28184E+00	.33878E+00	.36615E+00	.37718E+00	.37871E+00	.33208E+00
.29816E+00	.23686E+00	.17813E+00	.92102E-01	.84254E-02	.11528E+00
-.20159E+00	.28638E+00	.39073E+00	.44678E+00	.52925E+00	.25912E+00
-.26801E+00	.25404E+00	.51503E+00	.44036E+00	.36940E+00	.28593E+00
-.18064E+00	.55505E-01	.75108E-01	.18808E+00	.30374E+00	.40142E+00
.48149E+00	.25730E+00	.28272E+00	.29557E+00	.29202E+00	.27796E+00
.26076E+00	.49593E+00	.43292E+00	.32992E+00	.22041E+00	.17013E+00
.72376E-01	.26732E-02	.93030E-01	.15919E+00	.19385E+00	.25449E+00
-.29056E+00	.29081E+00	.28484E+00	.27284E+00	.23466E+00	.21061E+00
-.15724E+00	.11783E+00	.70494E-01	.19136E-01	.46033E-01	.95552E-01
.11522E+00	.15026E+00	.17996E+00	.17578E+00	.16633E+00	.14272E+00
.88545E-01	.73463E-01	.22969E-01	.19713E-01	.71956E-01	.12001E+00
-.15254E+00	.17431E+00	.20610E+00	.21231E+00	.25160E+00	.23129E+00
-.21096E+00	.20408E+00	.21183E+00	.18081E+00	.13813E+00	.13377E+00
-.85557E-01	.51407E-01	.15038E-02	.32612E-01	.82867E-01	.10718E+00
.13554E+00	.15357E+00	.15578E+00	.14456E+00	.10721E+00	.58103E-01
-.16157E-01	.54958E-01	.14101E+00	.21892E+00	.28261E+00	.33074E+00
-.40272E+00	.39718E+00	.40361E+00	.34463E+00	.30698E+00	.24277E+00
-.15737E+00	.59698E-01	.46558E-01	.14425E+00	.23780E+00	.35286E+00
.42616E+00	.47640E+00	.49212E+00	.52686E+00	.25331E+00	.53176E+00

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.49641E+00	.44495E+00	.37413E+00	.30278E+00	.25249E+00	.14732E+00
.82264E-01	.34084E-02	.80526E-01	.14870E+00	.20803E+00	.23659E+00
-.25741E+00	.28575E+00	.26754E+00	.25563E+00	.21714E+00	.17379E+00
-.10558E+00	.52842E-01	.43520E-02	.47336E-01	.13074E+00	.13723E+00
.20129E+00	.19208E+00	.20549E+00	.21283E+00	.18927E+00	.15667E+00
.76624E-01	.24721E-01	.48218E-01	.11114E+00	.16711E+00	.23399E+00
-.28859E+00	.35524E+00	.38969E+00	.40139E+00	.41067E+00	.40826E+00
-.38229E+00	.35407E+00	.28423E+00	.18802E+00	.10953E+00	.51691E-01
.67189E-01	.14983E+00	.24562E+00	.29914E+00	.34495E+00	.37276E+00
.41449E+00	.39949E+00	.35496E+00	.32063E+00	.26363E+00	.18335E+00
.11209E+00	.13290E-01	.78657E-01	.18563E+00	.22091E+00	.30449E+00
-.34059E+00	.35343E+00	.36226E+00	.34273E+00	.30087E+00	.22501E+00
-.15851E+00	.67287E-01	.43835E-01	.14444E+00	.24457E+00	.32935E+00
.39713E+00	.47654E+00	.51775E+00	.53499E+00	.52548E+00	.50644E+00
.45529E+00	.38213E+00	.29511E+00	.20772E+00	.11343E+00	.26398E-01
-.78135E-01	.15169E+00	.23323E+00	.26604E+00	.32058E+00	.34359E+00
-.33191E+00	.36024E+00	.31768E+00	.28046E+00	.25107E+00	.20276E+00
-.17557E+00	.14001E+00	.10238E+00	.80131E-01	.95691E-01	.86970E-01
-.79063E-01	.85430E-01	.10175E+00	.14565E+00	.15208E+00	.14031E+00
-.14840E+00	.12721E+00	.97894E-01	.52693E-01	.29555E-01	.42194E-01
.11699E+00	.18646E+00	.24601E+00	.33756E+00	.36882E+00	.42444E+00
.45963E+00	.45829E+00	.44547E+00	.41967E+00	.35725E+00	.28994E+00
.18300E+00	.81052E-01	.25761E-01	.16038E+00	.26533E+00	.39265E+00
-.48939E+00	.26108E+00	.29430E+00	.30819E+00	.30539E+00	.29235E+00
-.25680E+00	.45495E+00	.32337E+00	.18619E+00	.33105E-01	.14551E+00
.31345E+00	.49890E+00	.30796E+00	.37697E+00	.42344E+00	.47096E+00
.49740E+00	.49871E+00	.48469E+00	.45456E+00	.40672E+00	.33695E+00
.25557E+00	.35029E+00	.15315E+00	.46640E-01	.28104E+00	.48887E+00
-.31796E+00	.39944E+00	.44857E+00	.51149E+00	.53579E+00	.53821E+00
-.54000E+00	.51408E+00	.48823E+00	.43440E+00	.37614E+00	.30962E+00
-.52594E+00	.36676E+00	.21028E+00	.58433E-01	.74054E-01	.22302E+00
.33783E+00	.45109E+00	.25534E+00	.29794E+00	.33634E+00	.37382E+00
.38965E+00	.41903E+00	.42973E+00	.43078E+00	.42338E+00	.40904E+00
.39679E+00	.35978E+00	.32804E+00	.28468E+00	.49452E+00	.38152E+00
.25567E+00	.13211E+00	.75869E-02	.11362E+00	.21775E+00	.34143E+00
-.43670E+00	.50860E+00	.26708E+00	.29734E+00	.31800E+00	.32385E+00
-.32195E+00	.32424E+00	.30865E+00	.29686E+00	.27355E+00	.26024E+00
-.50469E+00	.45802E+00	.38616E+00	.34689E+00	.28364E+00	.23171E+00
-.19480E+00	.14305E+00	.99152E-01	.54888E-01	.57975E-02	.26487E-01
.61295E-01	.11827E+00	.13667E+00	.19541E+00	.22656E+00	.27909E+00
.29979E+00	.33753E+00	.36643E+00	.35235E+00	.38139E+00	.36977E+00
.35968E+00	.33133E+00	.30742E+00	.26320E+00	.24026E+00	.19370E+00
.13889E+00	.88745E-01	.35518E-01	.55249E-04	.46835E-01	.97539E-01
-.11099E+00	.15158E+00	.18979E+00	.21971E+00	.24373E+00	.28245E+00
-.30229E+00	.32650E+00	.34960E+00	.36438E+00	.38224E+00	.39787E+00
-.38536E+00	.37949E+00	.37529E+00	.35521E+00	.31782E+00	.26649E+00
-.24899E+00	.20452E+00	.16005E+00	.10097E+00	.49234E-01	.11364E-01
.65283E-01	.14631E+00	.18970E+00	.25904E+00	.30595E+00	.36995E+00

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.39605E+00	.43226E+00	.44928E+00	.46615E+00	.45104E+00	.42987E+00
.40210E+00	.35312E+00	.29646E+00	.24906E+00	.18154E+00	.10592E+00
.37626E-01	.23880E-01	.79158E-01	.14397E+00	.17452E+00	.22365E+00
-.23550E+00	-.26732E+00	-.27199E+00	-.26750E+00	-.26877E+00	-.25477E+00
-.26265E+00	-.23641E+00	-.22982E+00	-.20103E+00	-.19391E+00	-.17563E+00
-.14895E+00	-.13707E+00	-.12023E+00	-.85498E-01	-.63703E-01	-.33491E-01
-.64575E-02	.30469E-01	.53718E-01	.99594E-01	.12322E+00	.15111E+00
.19306E+00	.23154E+00	.25072E+00	.27346E+00	.28604E+00	.30437E+00
.31388E+00	.30113E+00	.28457E+00	.26405E+00	.23356E+00	.19138E+00
.14897E+00	.87210E-01	.39037E-01	.18295E-01	.83813E-01	.14540E+00
-.18417E+00	-.22492E+00	-.25835E+00	-.26840E+00	-.27450E+00	-.27843E+00
-.26358E+00	-.25148E+00	-.21578E+00	-.18912E+00	-.16217E+00	-.12080E+00
-.82993E-01	-.53130E-01	-.26924E-01	-.52453E-02	.23300E-01	.29298E-01
.39915E-01	.64501E-01	.73536E-01	.86371E-01	.92721E-01	.10753E+00
.11843E+00	.13658E+00	.16269E+00	.17537E+00	.19236E+00	.22065E+00
.25175E+00	.25825E+00	.28042E+00	.27593E+00	.27943E+00	.26870E+00
.24041E+00	.22611E+00	.18029E+00	.13325E+00	.72297E-01	.72211E-02
-.43653E-01	-.11206E+00	-.17920E+00	-.23449E+00	-.28700E+00	-.32500E+00
-.34367E+00	-.35829E+00	-.35242E+00	-.33048E+00	-.30312E+00	-.26229E+00
-.20123E+00	-.15365E+00	-.90262E-01	-.19054E-01	.40680E-01	.99748E-01
.14780E+00	.18946E+00	.21422E+00	.22306E+00	.23151E+00	.23498E+00
.21754E+00	.18999E+00	.16845E+00	.13826E+00	.98986E-01	.64324E-01
.29647E-01	-.10603E-01	-.38881E-01	-.56211E-01	.79700E-01	.94293E-01
-.97766E-01	-.10407E+00	-.98355E-01	-.80752E-01	.69281E-01	.50166E-01
-.35291E-01	-.10031E-01	.54975E-02	.12093E-01	.28891E-01	.40925E-01
.40760E-01	.32342E-01	.20571E-01	.11114E-01	.27465E-02	.15746E-01
-.34022E-01	-.37230E-01	-.49407E-01	-.53888E-01	-.60280E-01	-.51067E-01
-.40824E-01	-.34086E-01	-.11032E-01	.26878E-02	.30677E-01	.50988E-01
.69019E-01	.85745E-01	.99927E-01	.11007E+00	.10951E+00	.10871E+00
.10446E+00	.91488E-01	.82828E-01	.60460E-01	.30142E-01	.70951E-02
-.19418E-01	-.47187E-01	-.73510E-01	-.96967E-01	.11527E+00	.13130E+00
-.14226E+00	-.14759E+00	-.14265E+00	-.13762E+00	-.13017E+00	-.10804E+00
-.93643E-01	-.67507E-01	-.47108E-01	-.21903E-01	.35969E-03	.26619E-01
.44255E-01	.61745E-01	.73905E-01	.85718E-01	.87500E-01	.92572E-01
.85181E-01	.78039E-01	.69281E-01	.56345E-01	.42848E-01	.28119E-01
.10595E-01	-.67057E-02	.18816E-01	.34827E-01	.46109E-01	.59199E-01
-.67924E-01	-.73724E-01	-.77802E-01	-.76244E-01	.73208E-01	.66438E-01
-.55579E-01	-.44880E-01	-.32601E-01	-.18891E-01	.27249E-02	.89521E-02
.20791E-01	.33565E-01	.40712E-01	.48346E-01	.49087E-01	.50684E-01
.48045E-01	.46086E-01	.39108E-01	.30155E-01	.20938E-01	.10848E-01
.10758E-02	.63794E-02	.14609E-01	.18996E-01	.24535E-01	.28264E-01
-.27903E-01	-.26487E-01	-.24564E-01	-.21824E-01	.17323E-01	.12467E-01
-.79394E-02	-.26450E-02	.69973E-03	.28580E-02	.52732E-02	.63602E-02
.65105E-02	.51225E-02	.41905E-02	.13714E-02	.54731E-03	.30251E-02
-.54888E-02	-.75097E-02	-.90409E-02	-.10052E-01	.98211E-02	.96161E-02
-.87581E-02	-.74387E-02	-.57725E-02			

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.50100E-03 .16606E-03 .67822E-03 .13992E-02 .19751E-02 .21103E-02
-.18698E-02-.11837E-02 .39649E-03 .18977E-02 .23866E-02 .34602E-03
-.28482E-02-.59924E-02-.88581E-02-.97543E-02-.84540E-02-.28122E-02
.64459E-02 .16950E-01 .24731E-01 .25298E-01 .19314E-01 .82646E-02
-.39818E-02-.12322E-01-.18104E-01-.24909E-01-.29227E-01-.25701E-01
-.10437E-01 .10325E-01 .26359E-01 .35793E-01 .34464E-01 .19927E-01
-.41118E-02-.26930E-01-.34138E-01-.23487E-01-.11291E-01-.45732E-02
-.13646E-02 .53074E-02 .15155E-01 .30803E-01 .33776E-01 .17649E-01
-.38270E-02-.24791E-01-.35187E-01-.26961E-01-.31999E-02 .29772E-01
.54186E-01 .61918E-01 .46597E-01 .18460E-01-.74931E-02-.29954E-01
-.38182E-01-.42730E-01-.41093E-01-.31996E-01-.12415E-01 .13241E-01
.29702E-01 .33017E-01 .28485E-01 .16506E-01 .70162E-03-.19811E-01
-.32302E-01-.48225E-01-.55314E-01-.53361E-01-.40509E-01-.29936E-01
-.19216E-01-.14069E-01-.13147E-01-.47083E-02 .12863E-01 .34552E-01
.56607E-01 .70040E-01 .62592E-01 .22314E-01-.33329E-01-.75167E-01
-.77138E-01-.47186E-01-.28712E-02 .31341E-01 .63944E-01 .81681E-01
.80039E-01 .34428E-01-.27083E-01-.92748E-01-.13032E+00-.13048E+00
-.10259E+00-.57661E-01-.22497E-02 .48973E-01 .91894E-01 .85027E-01
.30370E-01-.58447E-01-.14046E+00-.19041E+00-.17671E+00-.13007E+00
-.55341E-01 .27178E-01 .10625E+00 .15123E+00 .15509E+00 .13068E+00
.88631E-01 .20708E-01-.43629E-01-.90588E-01-.11350E+00-.10358E+00
-.84753E-01-.38652E-01 .15954E-01 .75586E-01 .98736E-01 .82920E-01
.41784E-01 .78023E-02-.15151E-01 .74180E-02 .28822E-01 .31774E-01
.95566E-02-.25674E-01-.56429E-01-.43173E-01-.25958E-01-.22021E-01
-.23889E-01-.23314E-01-.86127E-02 .12796E-01 .35760E-01 .51315E-01
.61695E-01 .53165E-01 .26895E-01-.23024E-01-.72178E-01-.92033E-01
-.71158E-01-.38331E-01-.39774E-02 .29080E-01 .74171E-01 .11891E+00
.10906E+00 .90622E-01 .61299E-01 .34477E-01-.89855E-02-.54893E-01
-.56356E-01-.14605E-01 .36767E-01 .73320E-01 .90785E-01 .99831E-01
.92988E-01 .62309E-01-.63056E-02-.69457E-01-.11637E+00-.12738E+00
-.12613E+00-.75603E-01 .57830E-02 .11202E+00 .21109E+00 .25013E+00
.21968E+00 .11987E+00-.14320E-01-.10541E+00-.14999E+00-.12066E+00
-.37974E-01 .61243E-01 .18335E+00 .24745E+00 .24797E+00 .17286E+00
.55604E-01-.53408E-01-.12529E+00-.15707E+00-.15038E+00-.98317E-01
-.11172E-01 .54776E-01 .10943E+00 .12960E+00 .10276E+00 .41882E-01
-.16198E-02-.42760E-01-.51455E-01-.32791E-01 .34645E-02 .98593E-01
.19402E+00 .24159E+00 .20509E+00 .10842E+00 .12551E-01-.76040E-01
-.15757E+00-.19021E+00-.17834E+00-.11143E+00-.13802E-01 .62162E-01
.11090E+00 .98677E-01 .63844E-01-.25549E-01-.11170E+00-.15677E+00
-.12447E+00-.42071E-01-.20592E-02-.13544E-01-.26655E-01 .82598E-03
.69038E-01 .13373E+00 .14915E+00 .12972E+00 .70319E-01-.75520E-02
-.75073E-01-.12031E+00-.12771E+00-.85729E-01-.55941E-01-.75599E-01
-.97717E-01-.12634E+00-.14219E+00-.16036E+00-.15303E+00-.10707E+00
-.19976E-01 .87464E-01 .16112E+00 .19392E+00 .17561E+00 .14682E+00
.64766E-01-.37113E-01-.13726E+00-.20302E+00-.19125E+00-.14479E+00
-.69068E-01 .34450E-02 .70880E-01 .15263E+00 .21843E+00 .25308E+00
.18993E+00 .80960E-01-.39975E-01-.11866E+00-.15591E+00-.18789E+00
-.20823E+00-.24379E+00-.22729E+00-.18036E+00-.60430E-01 .14638E+00

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.34115E+00	.39063E+00	.29653E+00	.76885E-01	.17383E+00	.37823E+00
-.23352E+00	.21513E+00	.30037E+00	.42130E-01	.17262E+00	.30760E+00
.35658E+00	.32444E+00	.24634E+00	.84261E-01	.68737E-01	.17475E+00
-.16604E+00	.10880E+00	.72873E-01	.59679E-01	.69017E-01	.56904E-01
-.69577E-02	.34821E-01	.11331E+00	.20570E+00	.27569E+00	.27234E+00
.17418E+00	.25068E-01	.15038E+00	.28017E+00	.33917E+00	.30873E+00
-.20757E+00	.55156E-01	.10672E+00	.22266E+00	.24889E+00	.24163E+00
.21966E+00	.21006E+00	.20350E+00	.16395E+00	.79100E-01	.46158E-01
-.29082E-02	.16673E-01	.65916E-01	.10691E+00	.16957E+00	.22140E+00
-.17009E+00	.82628E-01	.52068E-01	.16988E+00	.23436E+00	.25747E+00
.16075E+00	.44990E-01	.24151E+00	.36232E+00	.38168E+00	.31058E+00
-.28178E+00	.21130E+00	.91320E-01	.77678E-01	.26919E+00	.18860E+00
.20168E+00	.36714E+00	.26535E+00	.60444E-01	.13401E+00	.28461E+00
-.33751E+00	.29374E+00	.20003E+00	.12193E+00	.72397E-01	.10468E-01
.64645E-01	.10096E+00	.79461E-01	.38943E-01	.18248E-01	.60060E-01
-.52969E-01	.21938E-01	.76491E-02	.89705E-01	.20718E+00	.26984E+00
-.19178E+00	.30214E-01	.11794E+00	.18238E+00	.16494E+00	.10566E+00
.40515E-01	.83906E-02	.28916E-01	.54890E-01	.29524E-01	.33475E-01
-.12548E+00	.20538E+00	.20854E+00	.14727E+00	.60290E-01	.38793E-01
.11726E+00	.11862E+00	.14700E+00	.10141E+00	.84175E-01	.58152E-01
.12581E-01	.14633E-01	.10284E-02	.20701E-01	.69390E-01	.84163E-01
.10327E+00	.10931E+00	.12116E+00	.11251E+00	.90251E-01	.87923E-01
.11577E+00	.13709E+00	.94302E-01	.19889E-02	.52022E-01	.37867E-01
-.52312E-02	.26157E-01	.31447E-01	.37156E-01	.14086E+00	.23117E+00
-.27214E+00	.21911E+00	.12743E+00	.39231E-01	.92482E-01	.18747E+00
.30331E+00	.30737E+00	.12474E+00	.14760E+00	.18598E+00	.23966E+00
-.22341E+00	.34491E+00	.11466E+00	.12540E+00	.33500E+00	.37532E+00
.28455E+00	.12834E+00	.29122E-01	.17795E+00	.34541E+00	.21456E+00
-.21306E+00	.33535E+00	.18838E+00	.95790E-01	.13053E-01	.11971E+00
.24314E+00	.29313E+00	.26747E+00	.16392E+00	.40079E-01	.81666E-01
-.16920E+00	.88938E-01	.13082E-01	.15343E+00	.19471E+00	.21124E+00
.21566E+00	.22800E+00	.20044E+00	.13661E+00	.10511E+00	.68151E-01
.38950E-01	.27196E-02	.40551E-01	.46111E-01	.98080E-02	.67704E-01
.15241E+00	.19958E+00	.18341E+00	.93017E-01	.17905E-01	.84416E-01
-.10838E+00	.92341E-01	.45390E-01	.53498E-01	.13984E+00	.18730E+00
.16422E+00	.72117E-01	.17161E-01	.86378E-01	.21535E+00	.26837E+00
-.29846E+00	.21576E+00	.71030E-01	.46745E-01	.10563E+00	.12889E+00
.19099E+00	.21891E+00	.22533E+00	.26438E+00	.25782E+00	.17763E+00
.62735E-01	.40398E-01	.15542E+00	.18572E+00	.17576E+00	.94837E-01
.22833E-01	.11834E+00	.19071E+00	.20884E+00	.17647E+00	.43860E-01
-.10874E+00	.18093E+00	.24078E+00	.24934E+00	.26830E+00	.21791E+00
-.81925E-01	.60470E-02	.14172E-01	.10471E+00	.14585E+00	.16023E+00
-.16689E+00	.23962E+00	.30806E+00	.28167E+00	.16800E+00	.53604E-01
.26421E+00	.38123E+00	.35782E+00	.30723E+00	.25332E+00	.18314E+00
.27387E-01	.18693E+00	.20157E+00	.26572E+00	.30172E+00	.28857E+00
-.22375E+00	.25398E+00	.19803E-02	.22134E+00	.38741E+00	.21872E+00
.37820E+00	.15735E+00	.13144E+00	.20860E+00	.29581E+00	.31275E+00
-.23645E+00	.23374E+00	.37524E-01	.22824E+00	.28523E+00	.31390E+00

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.32156E+00	.35913E+00	.33504E+00	.26765E+00	.96792E-01	.86708E-01
-.26405E+00	-.19078E+00	-.39192E+00	-.24263E+00	-.31243E-01	.13572E+00
.15582E+00	.56110E-01	.25324E-01	.11715E+00	.16444E+00	.13192E+00
-.13423E-01	-.21735E+00	-.30450E+00	-.30961E+00	-.19907E+00	-.41010E-01
.10437E+00	.12844E+00	-.17030E-01	.19100E+00	-.23668E+00	-.88942E-01
.13906E+00	.36584E+00	.24315E+00	.24900E+00	.19864E+00	.21717E+00
.52242E-01	.11900E+00	-.26307E+00	-.38432E+00	-.18743E+00	-.25345E+00
-.59149E-01	.78814E-01	.14969E+00	.17359E+00	.21281E+00	.17322E+00
.13864E+00	.13808E+00	.14684E+00	.81324E-01	-.73789E-01	-.22218E+00
-.29916E+00	-.21220E+00	-.30736E-01	.12432E+00	.20280E+00	.27213E+00
.31815E+00	.34128E+00	.32450E+00	.25607E+00	.19729E+00	.97387E-01
.18527E-01	.12984E+00	-.26703E+00	.19733E+00	-.20442E+00	-.32875E+00
-.92022E-01	.17499E+00	.20038E+00	.27254E+00	.25392E+00	.19015E+00
.15543E+00	-.10863E+00	-.31257E+00	-.24844E+00	-.27436E+00	-.23382E+00
-.29732E+00	-.14165E-01	.24802E+00	.20391E+00	.25172E+00	.29203E+00
.26582E+00	.18764E+00	.18087E+00	-.32911E-01	.21136E+00	-.31783E+00
-.35404E+00	-.28059E+00	-.95540E-01	.13977E+00	.32152E+00	.18656E+00
.35768E+00	.26523E+00	.94561E-01	-.69242E-01	.18011E+00	-.25485E+00
-.25604E+00	.15299E+00	-.97447E-02	.14641E+00	.22872E+00	.13048E+00
-.10213E+00	-.33744E+00	-.20324E+00	-.33853E+00	-.19058E+00	-.83348E-02
.12544E+00	.20471E+00	.31970E+00	.38590E+00	.37162E+00	.23796E+00
-.20814E-01	-.32177E+00	-.24119E+00	-.23041E+00	-.27635E+00	.22918E-01
.18996E+00	.30345E+00	.30008E+00	.25987E+00	.10328E+00	-.90908E-01
-.23354E+00	-.25145E+00	-.21158E+00	-.16285E+00	-.91566E-01	-.55111E-01
.59510E-01	.14533E+00	.11884E+00	.47695E-01	.40170E-02	.73347E-01
.12579E+00	.11727E+00	.61329E-02	.17853E+00	.28150E+00	-.28364E+00
-.15730E+00	.13888E-01	.18132E+00	.20192E+00	.15645E+00	-.21985E-01
-.17671E+00	-.21515E+00	-.10741E+00	.36690E-01	.14656E+00	.15903E+00
.17869E+00	.21349E+00	.18607E+00	.15738E+00	.78807E-01	.31217E-01
-.14078E-01	-.38381E-01	-.37874E-01	.56844E-01	.17322E+00	.23106E+00
.13509E+00	-.24868E-01	-.15578E+00	-.23540E+00	-.26569E+00	-.24256E+00
-.12952E+00	.69746E-01	.21914E+00	.28808E+00	.18295E+00	.19578E-02
-.19574E+00	-.33117E+00	-.39151E+00	-.18738E+00	-.31077E+00	-.14413E+00
.38516E-01	.20588E+00	.28857E+00	.24055E+00	.15572E+00	-.22942E-01
-.17768E+00	-.26308E+00	-.26937E+00	-.17006E+00	-.79715E-01	-.34777E-01
-.65234E-01	-.87650E-01	-.11804E+00	.11794E+00	-.25160E-01	.10786E+00
.22881E+00	.24458E+00	.16326E+00	-.89912E-02	.18155E+00	.30240E+00
-.31724E+00	-.26309E+00	-.18079E+00	.41001E-01	.14556E+00	.30415E+00
.35773E+00	.33799E+00	.25298E+00	.10359E+00	-.13876E+00	-.38777E+00
-.25462E+00	-.27667E+00	-.25637E+00	-.19423E+00	-.15742E+00	.68972E-01
.24565E+00	.31247E+00	.29658E+00	.22583E+00	.17833E+00	.95496E-01
-.62187E-01	-.27346E-01	-.22231E+00	-.20136E+00	-.25205E+00	-.22321E+00
-.27666E+00	.80710E-02	.30229E+00	.25675E+00	.31841E+00	.29201E+00
.18725E+00	.75303E-01	-.21906E+00	-.38815E+00	-.20340E+00	-.38350E+00
-.26381E+00	-.11864E+00	.15338E+00	.20802E+00	.30313E+00	.33129E+00
.27968E+00	.19334E+00	.20094E+00	.14661E-01	-.42211E-01	-.68481E-01
-.39635E-01	-.99424E-01	-.14005E+00	.13705E+00	-.43221E-01	.16748E+00
.35767E+00	.21872E+00	.38102E+00	.20238E+00	-.54588E-01	-.26977E+00

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-.19739E+00-.22167E+00-.36846E+00-.21330E+00-.20305E-01 .14806E+00
.22447E+00 .22455E+00 .19092E+00 .15842E+00 .92226E-01-.57645E-01
-.19097E+00-.28903E+00-.30546E+00-.24781E+00-.19912E+00-.11384E+00
-.10032E-05 .13894E+00 .20753E+00 .22371E+00 .13044E+00 .63324E-01
.21519E-01-.69974E-01-.15505E+00-.19495E+00-.20199E+00-.19586E+00
-.13089E+00-.71277E-01-.33435E-02 .20961E-01 .40470E-02 .15439E-01
.82484E-01 .16501E+00 .19581E+00 .13769E+00 .56545E-01-.34375E-01
-.17788E+00-.29856E+00-.34155E+00-.20197E+00 .31534E-01 .22551E+00
.28681E+00 .25700E+00 .23559E+00 .21153E+00 .97886E-01-.42241E-01
-.20701E+00-.27949E+00-.32259E+00-.27991E+00-.18160E+00-.85411E-01
-.50570E-01-.13335E+00-.24576E+00-.33970E+00-.28737E+00-.18595E+00
-.25540E-01 .13091E+00 .30584E+00 .38790E+00 .19718E+00 .37616E+00
.28240E+00 .11554E+00-.91125E-01-.32253E+00-.21558E+00-.21068E+00
-.29759E+00-.86976E-01 .86308E-01 .16648E+00 .21840E+00 .27068E+00
.33806E+00 .36608E+00 .29614E+00 .10848E+00-.10265E+00-.28724E+00
-.20792E+00-.23399E+00-.19822E+00-.21253E+00 .50436E-01 .33510E+00
.24942E+00 .29999E+00 .28076E+00 .18693E+00 .13317E+00-.10287E+00
-.30947E+00-.19460E+00-.37370E+00-.22230E+00-.89502E-01 .36539E-01
.12672E+00 .16784E+00 .16469E+00 .10239E+00 .58308E-01 .56901E-01
.14131E+00 .20208E+00 .25588E+00 .30720E+00 .33991E+00 .25404E+00
.10107E+00-.12498E+00-.36095E+00-.26850E+00-.28467E+00-.23449E+00
-.25909E+00 .70837E-01 .30725E+00 .21651E+00 .22272E+00 .18599E+00
.22604E+00-.34868E-01-.28646E+00-.21907E+00-.23785E+00-.32904E+00
-.10895E+00 .66485E-01 .19493E+00 .25478E+00 .31009E+00 .30233E+00
.19417E+00 .94018E-01 .22883E-01-.28616E-01-.16316E-01-.19527E-01
.59248E-02 .53891E-01 .62385E-01 .31552E-01-.16839E-01-.41804E-01
-.25456E-01-.72653E-02-.70368E-03 .78273E-02 .68950E-01 .15828E+00
.22727E+00 .20356E+00 .86704E-01-.10143E+00-.18864E+00-.14360E+00
-.51917E-01 .34668E-01 .98027E-01 .51654E-01-.50655E-01-.15373E+00
-.18257E+00-.63361E-01 .11902E+00 .18874E+00 .14418E+00 .53149E-01
-.12787E-02-.51406E-03-.78660E-02 .43369E-01 .12289E+00 .14848E+00
.50059E-01-.15731E+00-.32061E+00-.35788E+00-.25930E+00-.86148E-01
.12173E+00 .30902E+00 .18767E+00 .19189E+00 .35623E+00 .27417E+00
.12844E+00-.83354E-01-.32010E+00-.39265E+00-.28444E+00-.10922E+00
.40862E-01 .90848E-01 .13590E+00 .16312E+00 .15704E+00 .11755E+00
.65414E-01 .35272E-01-.32884E-01-.13717E+00-.24264E+00-.27580E+00
-.21063E+00-.84932E-01-.31849E-01-.27901E-01-.73030E-01-.88458E-01
-.26095E-02 .13930E+00 .21124E+00 .18820E+00 .43358E-01-.10135E+00
-.20383E+00-.24842E+00-.26425E+00-.23441E+00-.81917E-01 .10085E+00
.25922E+00 .37086E+00 .37387E+00 .33083E+00 .21913E+00 .10399E+00
.23782E-01-.34583E-01-.48322E-01-.11584E-01 .60887E-01 .94182E-01
.59720E-01-.58803E-02-.82967E-01-.15455E+00-.22103E+00-.23941E+00
-.19856E+00-.76069E-01 .12793E-01 .80836E-01 .67625E-01 .29854E-01
.50561E-01-.19043E+00-.36833E+00-.21242E+00-.35558E+00-.12939E+00
.15097E+00 .31275E+00 .18923E+00 .19015E+00 .30270E+00 .93171E-01
-.13540E+00-.32829E+00-.34221E+00-.20760E+00-.88294E-01-.12247E-01
.17819E-01 .58710E-02 .74189E-02-.13171E-01-.18332E-01 .13542E-01
.59078E-01 .13794E+00 .23076E+00 .32277E+00 .21220E+00 .21869E+00

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.37130E+00 .15410E+00-.90270E-01-.28378E+00-.37925E+00-.19221E+00
-.26037E+00 .43883E-01 .19606E+00 .31469E+00 .33498E+00 .28477E+00
.29955E+00-.91224E-01-.20909E+00-.29329E+00-.26108E+00-.36583E+00
-.13159E+00 .92848E-01 .30608E+00 .19670E+00 .19464E+00 .23656E+00
-.13428E-01-.25290E+00-.19972E+00-.23816E+00-.21981E+00-.36090E+00
-.21428E+00-.10868E+00 .21804E-02 .10780E+00 .20133E+00 .18293E+00
.12462E+00-.39292E-01-.20100E+00-.33552E+00-.20092E+00-.21083E+00
-.20218E+00-.31004E+00-.15114E+00 .61539E-01 .20343E+00 .30584E+00
.31201E+00 .25219E+00 .78346E-01-.12667E+00-.27387E+00-.27476E+00
-.12294E+00 .55458E-01 .18942E+00 .13865E+00 .26967E-01-.55464E-01
-.12294E+00-.15281E+00-.12955E+00 .25837E-02 .17371E+00 .27533E+00
.24185E+00 .13565E+00 .19399E-01-.12062E-01-.34224E-01-.18766E-01
.33280E-01 .14775E+00 .19607E+00 .19385E+00 .17476E+00 .93969E-01
.87972E-01 .96417E-01 .15702E+00 .23385E+00 .32873E+00 .18692E+00
.36491E+00 .20144E+00-.70930E-01-.29582E+00-.37104E+00-.33372E+00
-.28033E+00-.26777E+00-.17527E+00 .49437E-01 .26254E+00 .35387E+00
.31035E+00 .19574E+00 .63583E-01-.14858E-01-.85865E-01-.10553E+00
-.16262E+00-.18595E+00-.23915E+00-.18638E+00 .35472E-02 .30150E+00
.26562E+00 .28134E+00 .22944E+00 .24070E+00-.31740E-01-.25697E+00
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.22987E+00 .13078E+00-.45689E-01-.26729E+00-.26021E+00-.30522E+00
-.23277E+00-.16551E+00 .22792E+00 .24734E+00 .30234E+00 .24771E+00
.28195E+00 .16527E-01-.29815E+00-.26444E+00-.34505E+00-.36570E+00
-.27985E+00-.18901E+00 .27571E+00 .32040E+00 .39300E+00 .34601E+00
.39047E+00-.21204E-01-.20078E+00-.29958E+00-.31493E+00-.24695E+00
-.30178E+00-.91381E-01 .52305E-01 .80961E-01 .56304E-01-.29651E-03
-.44084E-01-.39624E-01-.33526E-01-.37234E-01-.48758E-01-.36712E-01
.19682E-01 .10018E+00 .10380E+00 .75021E-01 .99567E-02-.82925E-01
-.14196E+00-.10484E+00 .23293E-01 .13215E+00 .12962E+00 .31383E-01
-.69532E-02 .72635E-01 .14544E+00 .22608E+00 .16572E+00 .81447E-01
-.63348E-01-.20738E+00-.22804E+00-.16189E+00-.28434E-01 .12776E+00
.18900E+00 .15907E+00 .93702E-01-.24981E-03-.84942E-01-.12451E+00
-.11873E+00-.13612E+00-.16900E+00-.18635E+00-.17931E+00-.13843E+00
-.58296E-01-.15969E-01 .50798E-01 .11881E+00 .17692E+00 .17257E+00
.83025E-01-.33953E-01-.63762E-01-.56857E-01-.50343E-01-.69448E-01
-.19456E-01-.40751E-01-.14085E+00-.30419E+00-.33122E+00-.21322E+00
.18077E-01 .18272E+00 .24370E+00 .22233E+00 .15605E+00 .60747E-01
-.88562E-02-.86953E-01-.18068E+00-.26833E+00-.29545E+00-.22579E+00
-.16948E-01 .19359E+00 .18767E+00 .21753E+00 .18935E+00 .22103E+00
.36416E-01-.15335E+00-.32356E+00-.35239E+00-.32962E+00-.19452E+00
-.26148E-02 .20717E+00 .19373E+00 .23478E+00 .21519E+00 .24092E+00
-.32711E-01-.19911E+00-.25384E+00-.22181E+00-.19087E+00-.10819E+00
-.44526E-01 .10475E-01 .87392E-01 .16150E+00 .20940E+00 .21020E+00
.81864E-01-.11200E+00-.27211E+00-.31721E+00-.23481E+00-.94325E-01
-.27706E-01 .12560E-01 .90302E-02-.10075E-01 .14700E-01 .80332E-01
.60744E-01-.12203E-01-.95237E-01-.14074E+00-.17849E+00-.21099E+00
-.22388E+00-.12289E+00 .14643E-01 .19742E+00 .25128E+00 .21669E+00
.10207E+00-.89272E-01-.19744E+00-.25176E+00-.26470E+00-.22472E+00

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-.10117E+00 .47669E-01 .23430E+00 .34718E+00 .35827E+00 .30077E+00
.16238E+00 .48502E-01 .84179E-01 .12651E+00 .16182E+00 .17645E+00
-.19994E+00 .13329E+00 .52237E-01 .80732E-02 .55119E-01 .64047E-01
.78367E-01 .59830E-01 .68316E-02 .16407E-01 .38979E-01 .14799E+00
.16608E+00 .62597E-01 .52189E-01 .12806E+00 .13490E+00 .10325E+00
-.17398E-01 .86031E-01 .18955E+00 .20515E+00 .17890E+00 .12502E+00
.27940E-01 .19054E-01 .46617E-01 .10360E+00 .16210E+00 .11298E+00
.41844E-01 .32929E-01 .62133E-01 .77601E-01 .91742E-01 .71577E-01
-.26080E-01 .16883E-02 .24469E-02 .24258E-01 .49953E-01 .12096E+00
-.27940E+00 .37693E+00 .36186E+00 .15536E+00 .10338E+00 .29837E+00
.19349E+00 .20707E+00 .31398E+00 .57397E-01 .22854E+00 .33457E+00
-.28981E+00 .20463E+00 .12649E+00 .85197E-01 .11814E-01 .87260E-01
.11183E+00 .81346E-01 .12832E+00 .16129E+00 .16088E+00 .59612E-01
-.83581E-01 .21247E+00 .26404E+00 .21085E+00 .54511E-01 .16328E+00
.38219E+00 .24161E+00 .22153E+00 .27093E+00 .81361E-02 .28330E+00
-.23145E+00 .24727E+00 .22671E+00 .37809E+00 .26722E+00 .14042E+00
-.28218E-01 .10346E+00 .15434E+00 .14515E+00 .54553E-01 .52906E-01
-.12844E+00 .19800E+00 .15534E+00 .71207E-01 .46337E-01 .12466E+00
.11515E+00 .64766E-01 .18226E-01 .52164E-01 .29507E-01 .17020E-02
.43246E-02 .85302E-02 .33781E-02 .82673E-01 .19307E+00 .23302E+00
.23772E+00 .15174E+00 .22107E-01 .14858E+00 .22229E+00 .25579E+00
-.24597E+00 .25511E+00 .27571E+00 .28751E+00 .23078E+00 .14866E+00
-.38062E-01 .26999E-01 .86651E-01 .96841E-01 .79032E-01 .28950E-01
-.26390E-01 .84633E-01 .89319E-01 .27024E-01 .31702E-01 .77820E-01
.17043E-01 .93329E-01 .18595E+00 .20582E+00 .13695E+00 .50576E-01
.21705E-01 .68960E-01 .69758E-02 .11583E+00 .18477E+00 .15984E+00
-.44532E-01 .83725E-01 .18514E+00 .21194E+00 .15641E+00 .10424E+00
.17761E+00 .27998E+00 .33577E+00 .26703E+00 .14549E+00 .54551E-01
-.50289E-01 .14338E+00 .23379E+00 .16178E+00 .21811E-03 .12797E+00
.13320E+00 .61031E-01 .12757E-02 .27536E-01 .35493E-01 .10178E+00
-.1852E+00 .20641E+00 .15693E+00 .76401E-02 .16743E+00 .26527E+00
.28834E+00 .23914E+00 .93400E-01 .29000E-01 .13009E+00 .15478E+00
-.18368E+00 .16922E+00 .12574E+00 .56130E-01 .27064E-01 .10056E+00
.15359E+00 .14973E+00 .98362E-01 .58637E-01 .10286E-01 .55575E-03
-.66509E-01 .17873E+00 .25510E+00 .28586E+00 .26593E+00 .20844E+00
-.92367E-01 .52274E-01 .16239E+00 .23855E+00 .24604E+00 .22798E+00
.16699E+00 .49476E-01 .52067E-01 .11479E+00 .13897E+00 .10899E+00
-.76189E-01 .29937E-01 .13779E-01 .46522E-02 .50022E-01 .91473E-01
-.78366E-01 .36693E-01 .17728E-01 .36839E-01 .11176E+00 .16839E+00
.17379E+00 .85777E-01 .14606E-01 .13217E+00 .14299E+00 .11081E+00
-.82912E-02 .80760E-01 .17930E+00 .25813E+00 .26579E+00 .23241E+00
.16878E+00 .72192E-01 .26094E-02 .36999E-01 .58604E-01 .84644E-01
-.10307E+00 .11873E+00 .13148E+00 .10694E+00 .29090E-01 .66933E-01
.13339E+00 .11338E+00 .10127E+00 .96287E-01 .81188E-01 .48407E-01
-.55337E-01 .14102E+00 .12368E+00 .24575E-01 .91299E-01 .14994E+00
.17030E+00 .15058E+00 .13934E+00 .53274E-01 .50195E-01 .11787E+00
-.14695E+00 .16232E+00 .13903E+00 .11262E+00 .66030E-02 .16055E+00
.25984E+00 .26903E+00 .21229E+00 .10727E+00 .39441E-01 .45869E-02

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-.59399E-01-.10727E+00-.14709E+00-.14555E+00-.14738E+00-.13266E+00
-.56794E-01 .51069E-01 .20721E+00 .30692E+00 .34042E+00 .34589E+00
.32465E+00 .25211E+00 .10824E+00-.89623E-01-.33336E+00-.21942E+00
-.22522E+00-.34105E+00-.10086E+00 .15706E+00 .34087E+00 .36235E+00
.28976E+00 .16403E+00 .31801E-01-.66325E-01-.13440E+00-.15868E+00
-.16657E+00-.13975E+00-.79877E-01-.58550E-02 .63758E-01 .98114E-01
.10961E+00 .10915E+00 .11527E+00 .14192E+00 .14113E+00 .11537E+00
.89410E-01 .35648E-01-.36589E-02-.49869E-01-.63434E-01-.40799E-01
-.67679E-02 .36879E-01 .29799E-01-.23108E-01-.64156E-01-.77567E-01
-.65122E-01 .18613E-01 .11053E+00 .19261E+00 .20343E+00 .15439E+00
.55226E-01-.41234E-01-.13838E+00-.22971E+00-.26340E+00-.21142E+00
-.10575E+00 .12610E-01 .12136E+00 .19933E+00 .27158E+00 .25265E+00
.13676E+00 .37401E-02-.12195E+00-.19727E+00-.20791E+00-.16628E+00
-.92972E-01-.94395E-02 .71761E-01 .11119E+00 .12004E+00 .93381E-01
.48231E-01-.18984E-01-.34652E-01-.15268E-01 .10003E-01 .29404E-01
.14575E-02-.28380E-01-.54052E-01-.48704E-01-.88351E-02 .29601E-01
.60103E-01 .80432E-01 .85628E-01 .99618E-01 .89361E-01 .59268E-01
.24116E-01-.17281E-01-.56052E-01-.80841E-01-.94698E-01-.91989E-01
-.84417E-01-.25379E-01 .52466E-01 .14262E+00 .17438E+00 .14973E+00
.76366E-01-.84431E-02-.81765E-01-.14474E+00-.17657E+00-.15191E+00
-.86562E-01-.19933E-01 .28411E-01 .47960E-01 .59605E-01 .5314E-01
.35772E-01 .33667E-02-.30907E-01-.60833E-01-.70367E-01-.73556E-01
-.60211E-01-.99303E-02 .30218E-01 .71314E-01 .92763E-01 .75716E-01
.25233E-01-.51810E-02-.32953E-01-.48724E-01-.44432E-01-.38195E-01
-.60902E-02 .28377E-01 .57410E-01 .64971E-01 .56564E-01 .21769E-01
-.20618E-01-.68610E-01-.95757E-01-.11148E+00-.10178E+00-.71673E-01
-.20064E-01 .38489E-01 .95253E-01 .12441E+00 .13565E+00 .12118E+00
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.19204E-01-.90517E-02-.40501E-01-.70296E-01-.89719E-01-.98445E-01
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-.25540E-02 .73139E-02 .17783E-01 .25429E-01 .20023E-01 .14347E-01
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.65473E-02 .16732E-01 .22553E-01 .24743E-01 .20033E-01 .10048E-01
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.45451E-02 .40885E-02 .37980E-02