



Westinghouse
Electric Corporation

Energy Systems

Box 355
Pittsburgh Pennsylvania 15230-0355

NTD-NRC-94-4093
DCP/NRC0029
Docket No.: STN-52-003

April 7, 1994

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: R. W. BORCHARDT

SUBJECT: SEISMIC INPUT ACCELERATION TIME HISTORIES

Dear Mr. Borchardt:

Attached herewith are SSAR Figures 3.7.1.3, 3.7.1.4 and 3.7.1.5 together with tables giving the digitized values of the acceleration time histories plotted in these figures. This information was requested during our meeting on the containment vessel on March 28th. A diskette containing this data is attached to the copy transmitted to Dr. L. Greiman for his use in independent analyses of the vessel.

A copy of this letter and diskette will also be given to Q. Hossain during the meeting in San Francisco on April 14th for the independent seismic analyses.

Please contact Don Lindgren on (412) 374-4856 if you have any questions concerning this transmittal.

N. J. Liparulo
N. J. Liparulo, Manager
Nuclear Safety & Regulatory Activities

/nja

Attachment
Enclosure

cc: B. A. McIntyre
Q. Hossain
L. Greiman
K. Shembarger

WEC 3-09 East
LLNL
Ames Lab
NRC

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9404150075 940407
FDR ADDCK 05200003
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E004 / 1

3. DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS

Revision: 1

Effective: 01/13/94

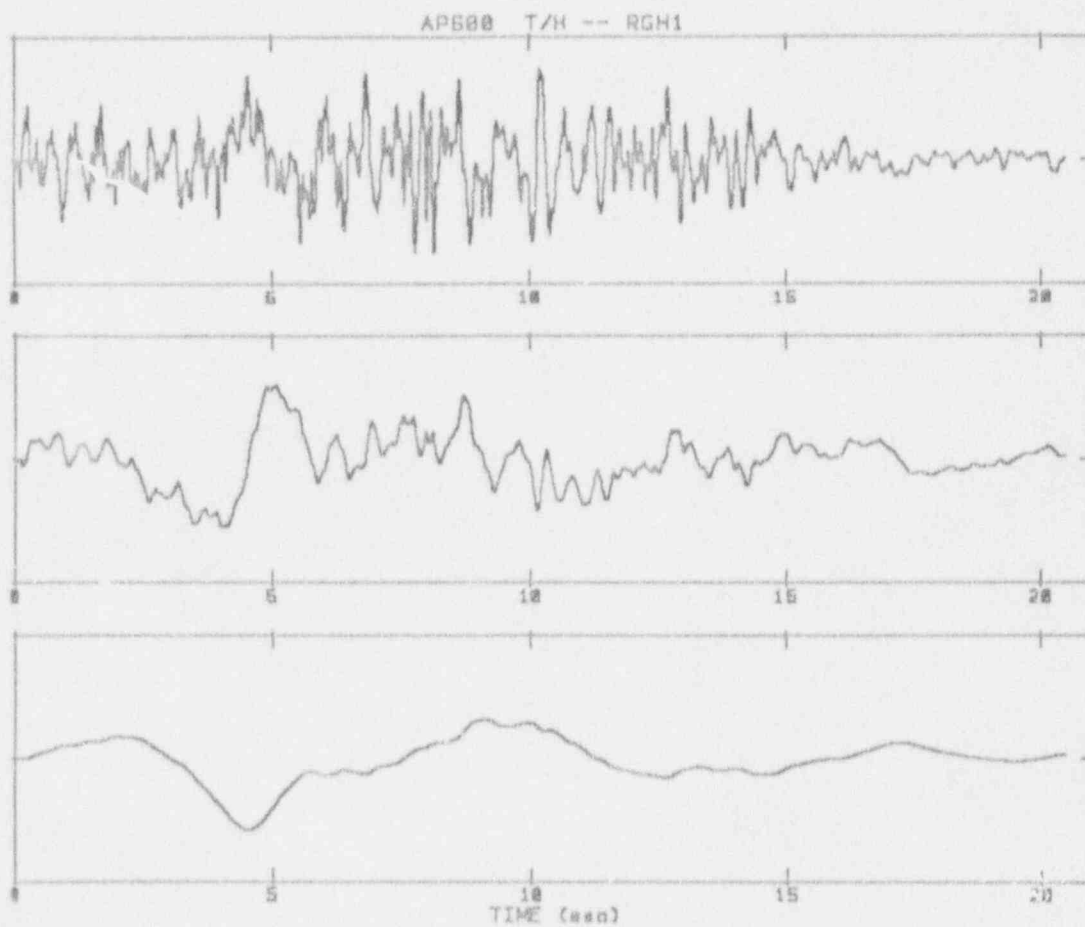


Figure 3.7.1-3
Design Horizontal Time History, "H1"
Acceleration, Velocity & Displacement Plots

3. DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS

Revision: 1

Effective: 01/13/94

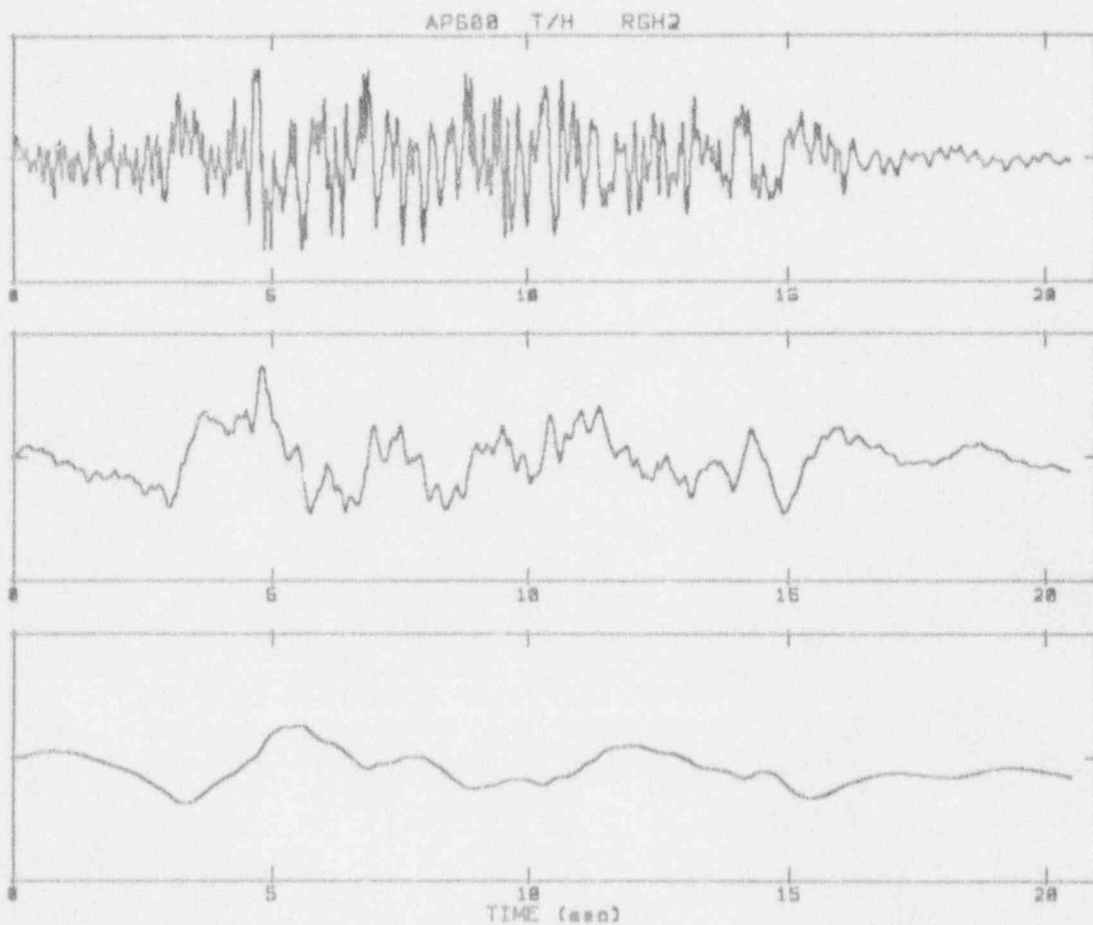


Figure 3.7.1-4
Design Horizontal Time History, "H2"
Acceleration, Velocity & Displacement Plots

3. DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS

Revision: 1

Effective: 01/13/94

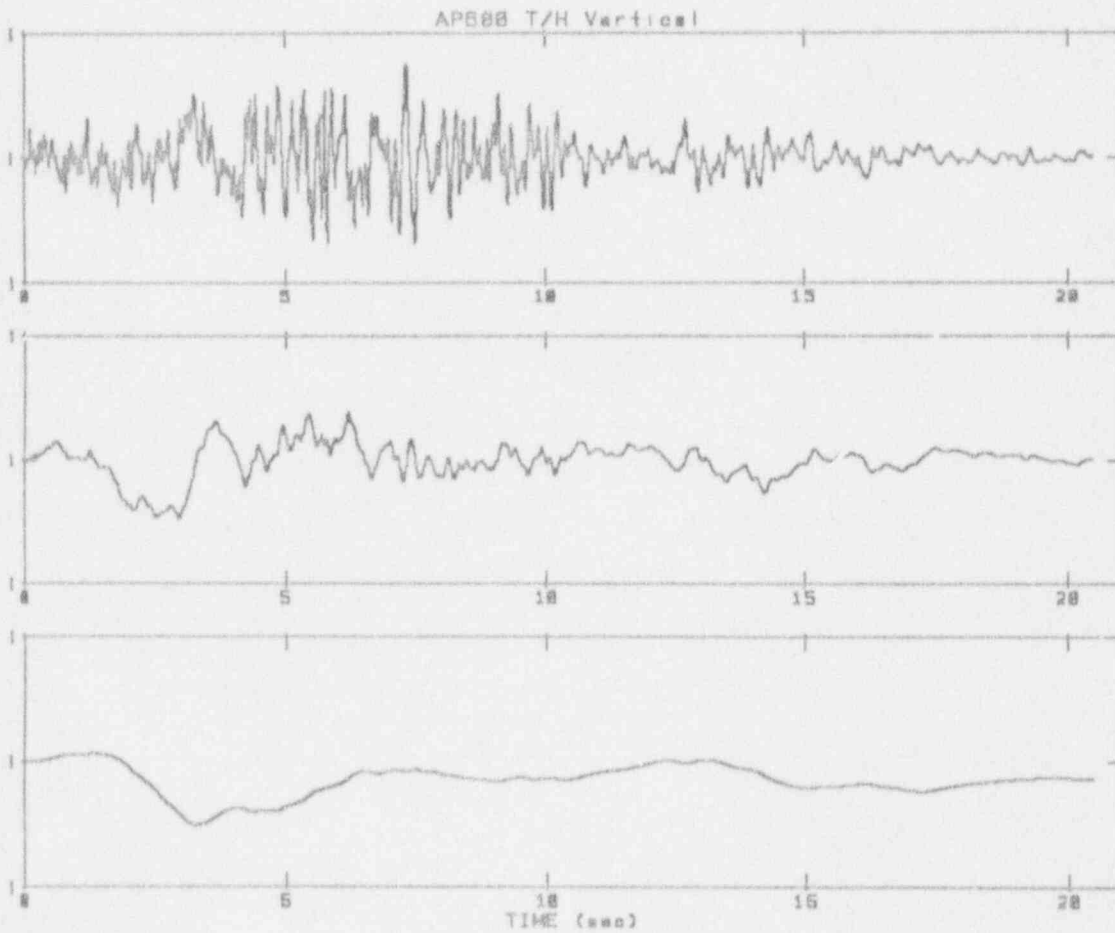


Figure 3.7.1-5
Design Vertical Time History
Acceleration, Velocity & Displacement Plots

(9/27/90)

AP600 - Acceleration Time History compatible to the 'MODIFIED Reg-Guild 1.60 Target ARE at 2%, 3%, 4%, and 7% dampings' for Horizontal direction. Modified BECHTEL Standard time history (H1) with 2048 points at 0.01 second. (maximum acceleration = .300 g)

.004665	-.008741	-.002836	-.005807	-.016408	-.021020	-.023531	-.019162	1
-.006637	-.013080	-.049959	-.085499	-.086263	-.052060	-.007137	.031257	2
.065472	.092602	.101933	.105080	.120816	.139157	.144061	.146218	3
.161365	.178210	.169124	.127166	.075027	.032855	.001115	-.020756	4
-.029188	-.030368	-.033651	-.034217	-.020474	.001986	.011240	.001988	5
-.002474	.016462	.048726	.070396	.063302	.026254	-.017683	-.037965	6
-.032239	-.031145	-.054253	-.075976	-.060261	-.018788	-.000261	-.025079	7
-.063166	-.077755	-.065718	-.048515	-.040426	-.036796	-.024871	.002447	8
.037559	.061040	.062275	.053868	.053969	.061656	.066640	.073210	9
.089035	.100624	.090967	.068074	.047775	.029959	.014918	.013932	10
.025478	.030266	.021007	.010195	.002894	-.011663	-.036199	-.056451	11
-.063855	-.073353	-.107552	-.160741	-.193502	-.182792	-.156657	-.149117	12
-.151527	-.142868	-.129411	-.121521	-.109611	-.087484	-.064809	-.043440	13
-.014898	.016048	.039294	.061751	.086433	.090780	.063058	.033128	14
.032977	.052846	.064039	.062608	.064565	.074499	.086561	.103210	15
.122634	.121800	.084868	.035107	.008952	.010796	.018253	.019815	16
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-.039844	-.036096	-.038969	-.063173	-.088761	-.091299	-.077349	-.069584	18
-.080493	-.105998	-.123828	-.106852	-.057851	-.015905	-.008311	-.013436	19
.002039	.024988	.013581	-.033592	-.067527	-.049632	.009762	.073356	20
.110719	.111250	.084712	.051918	.027738	.016676	.024638	.060283	21
.117421	.167393	.181740	.159008	.116992	.066722	.016453	-.011648	22
-.003536	.020065	.030733	.025509	.008885	-.024039	-.063572	-.082288	23
-.074075	-.063365	-.066522	-.072624	-.067800	-.059239	-.064931	-.081205	24
-.078471	-.047788	-.026877	-.049064	-.096092	-.130511	-.139534	-.126125	25
-.093290	-.051458	-.016902	.000008	-.003860	-.021232	-.028833	-.007461	26
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.077917	.106904	.104818	.089601	.080309	.074364	.063649	.054715	34
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-.019397	-.000071	-.002170	-.009870	-.014401	-.023080	-.037330	-.044928	36
-.037527	-.027409	-.035894	-.058285	-.059522	-.023992	.016254	.027940	37
.020045	.015510	.013733	.006682	.001652	.006145	.014144	.020696	38
.028452	.036388	.044664	.061167	.087433	.100044	.084574	.064501	39
.071474	.096938	.104005	.082207	.052301	.021795	-.016077	-.049248	40
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.044261	-.106106	.155761	.167658	.149970	.122571	.094048	.071858	104

.056941	.041556	.023010	.016630	.035162	.067987	.094375	.105231	105
.100593	.082173	.061288	.052109	.046351	.028562	.014647	.026836	106
.047429	.053920	.055160	.060869	.060706	.054493	.054988	.054626	107
.081136	.106907	.139179	.172035	.206123	.240504	.263526	.257387	108
.222321	.169073	.109169	.049800	-.000267	-.029673	-.035415	-.029329	109
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-.218735	-.241899	-.263570	-.267692	-.257615	-.245628	-.233009	-.204376	111
-.159373	-.115100	-.080489	-.052422	-.029496	-.015139	-.011277	-.012613	112
-.012267	-.015601	-.031649	-.049470	-.054140	-.056918	-.067730	-.065018	113
-.052149	-.072256	-.135972	-.181409	-.168707	-.127741	-.092007	-.066355	114
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-.118458	-.143753	-.168076	-.182186	-.175782	-.148732	-.107257	-.056120	116
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.093513	.087966	.086869	.095419	.108077	.112065	.100014	.079727	119
.063470	.055056	.047705	.037123	.026372	.016682	.006858	.003003	120
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.056277	.065936	.077977	.085477	.081653	.070109	.057378	.045701	122
.030510	.006005	-.027379	-.059212	-.082253	-.098450	-.114800	-.128880	123
-.132117	-.116847	-.086940	-.056841	-.039812	-.036334	-.041483	-.046711	124
-.048582	-.047818	-.048048	-.047845	-.047738	-.053824	-.074973	-.111739	125
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.011091	-.025410	-.064623	-.100568	-.127566	-.157056	-.197381	-.231357	130
-.240407	-.226468	-.200498	-.173726	-.159385	-.160323	-.167543	-.167490	131
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.099818	.060413	.037779	.031485	.036503	.040572	.038304	.039982	135
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-.108636	-.110327	-.101710	-.095608	-.096326	-.093855	-.083769	-.071263	138
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.025747	.060417	.092389	.115781	.134142	.153159	.165970	.168583	145
.170572	.170355	.157455	.139948	.122592	.082919	.013257	-.052998	146
-.091181	-.102047	-.089302	-.057392	-.023163	-.007603	.017726	.043822	147
.071152	.086547	.094009	.102361	.102082	.081495	.048930	.017587	148
-.009119	-.026161	-.026657	-.017214	-.011595	-.011419	-.011621	-.015472	149
-.022184	-.015248	.009737	.028128	.022481	.003896	-.018546	-.049162	150
-.081312	-.098285	-.093503	-.069453	-.031895	.007890	.041191	.069974	151
.095973	.109771	.100972	.072494	.036698	.005928	-.008979	-.006711	152
.000164	.006718	.023339	.046915	.058445	.055399	.047610	.034764	153
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.060830	.063639	.074152	.094316	.111761	.116628	.107812	.093820	158
.086393	.083767	.078587	.080372	.101357	.136148	.176486	.215712	159

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.234586	.218860	.181369	.141130	.100677	.058339	.020865	-.002851	160
-.012777	-.016837	-.022840	-.032245	-.036871	-.024690	.002339	.025041	161
.031159	.028685	.028978	.029259	.013844	-.029689	-.093062	-.152103	162
-.189337	-.202646	-.196552	-.174012	-.138032	-.100016	-.071374	-.041422	163
.008310	.067163	.106655	.116744	.103127	.073802	.046166	.030588	164
.024675	.018519	.007504	-.007061	-.024028	-.043258	-.059975	-.072748	165
-.093387	-.122760	-.137394	-.129850	-.119696	-.108969	-.086113	-.064305	166
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.166593	.155761	.132601	.109175	.093323	.078837	.063116	.047837	180
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-.008477	.007147	.016891	.025019	.033737	.041130	.045277	.043859	182
.034622	.021218	.010714	.006748	.008997	.012889	.013771	.017067	183
.031729	.061650	.060739	.055384	.046613	.043234	.044665	.047512	184
.050959	.056387	.065953	.077006	.084679	.087783	.089957	.091392	185
.087366	.075847	.060549	.048399	.044732	.047287	.048754	.046300	186
.041660	.035175	.026377	.015708	.004512	-.003561	-.005528	-.003223	187
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-.053964	-.074345	-.088128	-.093210	-.090903	-.084812	-.080919	-.084773	189
-.094297	-.100810	-.097860	-.084792	-.065520	-.044931	-.024653	-.004942	190
.012012	.028477	.036461	.043016	.044076	.044129	.045806	.046218	191
.044873	.044146	.042315	.036905	.030219	.023845	.015900	.007361	192
.001585	-.001914	-.004660	-.005610	-.004182	-.001430	.002124	.005266	193
.006014	.004387	.001537	-.002250	-.006294	-.009175	-.010696	-.012747	194
-.017445	-.024500	-.032297	-.040701	-.049239	-.055236	-.062560	-.069060	195
-.071014	-.064188	-.052031	-.040084	-.029707	-.020333	-.012850	-.009199	196
-.007872	-.002162	.010549	.022412	.025723	.021760	.014650	.006768	197
-.000141	-.007107	-.016527	-.026154	-.031570	-.032759	-.031845	-.028613	198
-.022836	-.016928	-.012672	-.006020	-.001855	.001992	.000490	-.002058	199
-.001650	.000156	.004416	.014673	.025153	.024787	.013297	-.000220	200
-.010113	-.014727	-.012066	-.003567	.005263	.012269	.019642	.027639	201
.035151	.043422	.051878	.056290	.056379	.057349	.061607	.067028	202
.071604	.073753	.072752	.070668	.068442	.063682	.056843	.051229	203
.044763	.032144	.014112	-.004689	-.021833	-.034400	-.038182	-.033353	204
-.024460	-.015176	-.006919	-.000062	.004506	.005451	.004597	.005249	205
.004755	-.002153	-.013815	-.024836	-.032731	-.035752	-.033616	-.030423	206
-.026416	-.024669	-.018485	-.013019	-.008777	-.003638	.002487	.007925	207
.011736	.014184	.016537	.019776	.022250	.021057	.016951	.014117	208
.013984	.014163	.013520	.012924	.012346	.011314	.009818	.007452	209
.004745	-.003682	.004465	.005399	.007000	.011536	.018452	.024394	210
.026981	.025643	.020381	.012114	.002958	-.005450	-.013209	-.020943	211
-.028217	-.034088	-.038400	-.041189	-.041990	-.040773	-.038243	-.034963	212
-.031465	-.028447	-.025867	-.023349	-.021667	-.021814	-.022957	-.023183	213
-.021345	-.017305	-.012103	-.008263	-.007821	-.010319	-.014957	-.021307	214

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-.028844	-.035816	-.041457	-.046689	-.051973	-.055853	-.056405	-.053440	215
-.048566	-.044088	-.041820	-.041419	-.040764	-.039104	-.037495	-.036290	216
-.035371	-.035322	-.036292	-.037738	-.039296	-.040592	-.041725	-.043417	217
-.045360	-.046631	-.047677	-.048968	-.049139	-.046635	-.041692	-.036726	218
-.029782	-.024185	-.019251	-.015089	-.011209	-.007463	-.004002	-.000461	219
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.014528	.014386	.012769	.009842	.005725	.000631	-.004141	-.007640	221
-.009944	-.010478	-.008786	-.006476	-.005562	-.006362	-.008173	-.010487	222
-.013197	-.016021	-.018304	-.019740	-.020203	-.018844	-.015165	-.010178	223
-.005164	-.000752	.002557	.004743	.006564	.008871	.012649	.018398	224
.024344	.027621	.027456	.024703	.020323	.015618	.012098	.009976	225
.009186	.010041	.011255	.010784	.009232	.008793	.009601	.010108	226
.009960	.010290	.011887	.014551	.017637	.020234	.021650	.021998	227
.021384	.019565	.017162	.015387	.014345	.013153	.011055	.007839	228
.003741	-.001391	-.008089	-.015777	-.022722	-.027307	-.028607	-.026841	229
-.023164	-.018431	-.013471	-.008507	-.006953	-.005541	-.005137	-.005319	230
-.005429	-.005225	-.004309	-.002202	.001013	.004751	.007862	.009366	231
.009560	.008981	.008002	.007898	.009535	.012172	.015187	.018449	232
.021400	.023813	.025734	.026755	.026762	.025987	.024457	.022398	233
.020012	.017230	.014245	.011017	.006988	.002203	-.002737	-.007342	234
-.010978	-.013276	-.014456	-.014664	-.014085	-.013157	-.012096	-.011238	235
-.010921	-.010328	-.008441	-.005686	-.002338	.002777	.009387	.014287	236
.015221	.013090	.009010	.003355	-.002041	-.005107	-.006066	-.005750	237
-.004028	-.001452	.000446	.001221	.001619	.001820	.001626	.001989	238
.004297	.008447	.013565	.019321	.025080	.029665	.032573	.033939	239
.033757	.031951	.028965	.025839	.023111	.020270	.016699	.011832	240
.004986	-.003514	-.012496	-.021103	-.028178	-.032421	-.033767	-.032939	241
-.030341	-.025908	-.019657	-.012891	-.007280	-.002490	.002488	.007499	242
.012530	.017487	.021367	.023982	.025652	.025914	.024945	.023621	243
.022529	.022358	.022706	.022170	.021243	.021027	.020628	.019147	244
.016757	.013708	.010969	.009579	.009579	.010991	.013504	.016281	245
.019023	.021057	.021525	.021121	.020164	.017707	.014255	.011245	246
.009015	.007569	.006454	.004796	.002755	.000742	-.001258	-.002755	247
-.003496	-.003620	-.002755	-.001062	.000745	.002743	.004937	.006795	248
.008180	.008824	.008564	.008378	.009238	.011137	.013759	.016721	249
.019430	.021283	.022215	.022439	.021715	.020452	.019596	.017756	250
.013419	.009464	.009144	.011360	.014221	.017382	.020201	.021743	251
.021696	.020795	.020206	.019504	.017620	.014433	.009424	.002383	252
-.005710	-.014524	-.022924	-.028565	-.031831	-.034221	-.035372	-.035737	253
-.036059	-.036131	-.037041	-.038935	-.040168	-.040690	-.039911	-.036452	254
-.031309	-.024780	-.017337	-.012154	-.008919	-.006410	-.006900	-.007602	255
-.005869	-.005705	-.003058	.005892	.006629	.003632	.002635	.001737	256

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AP600 - Acceleration Time History compatible to the 'MODIFIED Reg-Guild 1.60 Target ARS at 2%, 3%, 4%, and 7% dampings' for Horizontal direction. Modified BECHTEL Standard time history (H2) with 2048 points at 0.01 second. (maximum acceleration = .300 g)

-.003724	.013987	.020463	.032139	.061998	.075605	.065765	.057081	1
.049992	.043559	.043970	.041321	.032262	.026208	.026902	.032455	2
.029987	.012487	-.000170	.000535	-.000759	-.000133	.015280	.033048	3
.036816	.029609	.021053	.011115	-.006595	-.027873	-.039742	-.039574	4
-.035605	-.034107	-.031872	-.021351	-.008379	-.006824	-.012878	-.012843	5
-.006097	-.001675	-.008802	-.027150	-.036764	-.017848	.018792	.040774	6
.033050	.016020	.017246	.032623	.033905	.009997	-.022010	-.045825	7
-.061647	-.070303	-.067423	-.054334	-.033057	-.002652	.024964	.025304	8
.003387	-.026580	-.030039	-.000837	.026826	.014920	-.032032	-.074772	9
-.082754	-.058480	-.030911	-.031500	-.066408	-.109081	-.126708	-.107553	10
-.058985	.000647	.043147	.045764	.013902	-.017170	-.012550	.023718	11
.055465	.060765	.042607	.005801	-.039423	-.067005	-.056523	-.015916	12
.025740	.044154	.038503	.025262	.017086	.013683	.010658	.005388	13
-.007136	-.029210	-.051957	-.064928	-.063519	-.044302	-.013878	.006412	14
.002474	-.020018	-.047378	-.067597	-.072403	-.057631	-.027455	-.000012	15
.008607	.007128	.012697	.020339	.014767	.000005	-.007829	-.006741	16
-.007001	-.013105	-.023242	-.036867	-.054580	-.073472	-.082219	-.071279	17
-.052265	-.046508	-.056625	-.069612	-.074786	-.067217	-.048339	-.022061	18
.014793	.063467	.104382	.107420	.067787	.019036	-.000210	.013972	19
.035652	.047130	.052663	.054613	.043191	.016291	-.015847	-.043649	20
-.055457	-.040060	-.008553	.007345	-.012296	-.053629	-.079610	-.067537	21
-.035583	-.018362	-.023599	-.030902	-.023088	-.002075	.018143	.024774	22
.019858	.019124	.028511	.034635	.027034	.011683	-.001014	-.005907	23
.000441	.024546	.065669	.099211	.095447	.058719	.019122	-.007163	24
-.021791	-.026137	-.023290	-.025438	-.043426	-.071898	-.090700	-.082553	25
-.050398	-.014624	.009163	.020093	.020245	.011669	.000667	-.010035	26
-.019678	-.019066	-.002162	.021828	.040390	.047092	.038981	.017690	27
-.006960	-.019589	-.013764	-.003843	-.006655	-.015386	-.013163	-.004188	28
-.006068	-.019709	-.033108	-.045495	-.062598	-.079150	-.083311	-.068867	29
-.040500	-.010516	.014214	.032262	.034410	.013510	-.018572	-.044381	30
-.059585	-.070654	-.085681	-.104086	-.109925	-.087582	-.047968	-.023362	31
-.028776	-.042661	-.035199	-.004798	.025019	.040498	.051184	.064935	32
.075238	.078324	.075027	.061239	.039399	.021731	.009184	-.012399	33
-.049229	-.082953	-.082599	-.039653	.013671	.036573	.025951	.014367	34
.027282	.057914	.077049	.058049	.004457	-.047145	-.063716	-.043413	35
-.004401	.030485	.038591	.007001	-.054562	-.111569	-.131189	-.118429	36
-.105229	-.106854	-.116234	-.127650	-.136714	-.129481	-.095673	-.046871	37
-.006649	.012959	.019102	.028616	.050887	.079634	.104980	.120160	38
.115346	.087874	.052349	.025962	.019897	.041490	.084607	.129760	39
.163408	.185961	.202215	.212783	.216373	.214414	.203312	.169144	40
.107833	.044120	.009732	.006686	.014775	.028385	.055819	.092633	41
.124693	.144180	.148792	.139520	.120021	.096334	.081351	.084149	42
.093114	.089439	.070417	.046196	.026710	.018513	.023973	.041722	43
.073534	.118476	.157291	.160870	.126508	.088039	.080198	.102073	44
.123478	.125066	.113677	.095825	.068673	.038329	.015308	.002068	45
.003870	.029055	.067118	.086746	.066058	.018389	-.018768	-.022173	46
-.007604	-.010647	-.043677	-.085669	-.111611	-.111543	-.090173	-.062590	47
-.036798	-.006876	.024565	.041862	.039798	.029313	.020392	.008908	48
-.013040	-.035291	-.041948	-.041572	-.051125	-.062606	-.057611	-.037800	49

-.016130	.005561	.027625	.037548	.026213	.002818	-.017497	-.025161	50
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-.078253	-.057474	-.027034	.012482	.054981	.088868	.094424	.057319	52
-.007495	-.055024	-.053781	-.025004	-.006570	.008033	.046635	.101815	53
.150055	.185938	.200485	.176130	.120169	.063302	.022849	-.007196	54
-.029391	-.033505	-.021209	-.008542	-.005814	-.015755	-.028788	-.025704	55
-.002791	.030126	.055386	.050512	.036997	.062195	.104833	.103590	56
.042300	-.050564	-.115025	-.122264	-.129341	-.159966	-.169705	-.179753	57
-.208241	-.174396	-.072272	-.007059	.008455	.053272	.137119	.202445	58
.238867	.285580	.300000	.292353	.260913	.282615	.293585	.263302	59
.254832	.279419	.297456	.293309	.235324	.134449	.058437	.001113	60
-.037569	-.009966	.016770	-.072028	-.218312	-.292637	-.287401	-.239035	61
-.170600	-.117941	-.096817	-.095013	-.118132	-.153840	-.162393	-.148150	62
-.138140	-.144825	-.199843	-.284754	-.291962	-.194301	-.086774	-.016952	63
.024433	.020565	-.016457	-.038785	-.043542	-.053283	-.068070	-.081019	64
-.084941	-.079135	-.081821	-.099475	-.111362	-.104680	-.092140	-.097370	65
-.129917	-.165547	-.173100	-.156331	-.139064	-.130246	-.120588	-.096772	66
-.063112	-.040938	-.034877	-.029706	-.017228	.002270	.026268	.052931	67
.086210	.118646	.127475	.103621	.056045	.003282	-.026288	-.016924	68
.023825	.077660	.112302	.099561	.045009	-.028031	-.094422	-.128490	69
-.125972	-.110096	-.112116	-.147063	-.197766	-.243508	-.280629	-.295283	70
-.276681	-.241424	-.207230	-.187174	-.183247	-.182581	-.206993	-.262675	71
-.262499	-.174300	-.100753	-.085657	-.068209	-.030898	.007192	.045349	72
.075770	.097304	.119243	.132740	.131301	.118151	.091041	.060133	73
.046483	.059877	.093651	.120007	.110692	.071423	.030376	.012123	74
.027032	.064015	.100824	.119921	.111585	.083498	.062647	.071546	75
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-.058875	-.035399	-.039120	-.061686	-.104467	-.167374	-.226414	-.254914	80
-.236966	-.171151	-.076437	.022323	.105365	.157654	.176800	.169091	81
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-.039344	-.035080	-.023127	.007731	.045288	.066917	.070430	.076388	84
.108950	.163819	.200579	.186927	.131431	.072142	.053131	.095102	85
.178297	.255064	.275065	.221514	.130906	.065890	.070389	.131630	86
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-.127273	-.128998	-.124246	-.117373	-.106750	-.083326	-.051709	-.026288	90
-.017374	-.021904	-.022524	-.008709	.015589	.047567	.085667	.123340	91
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.080508	.069196	.037741	-.005986	-.041815	-.056982	-.047808	-.017317	93
.027117	.075566	.112827	.129522	.132153	.128476	.116778	.093054	94
.060146	.029246	.003291	-.034420	-.097770	-.175954	-.242020	-.275259	95
-.276841	-.260760	-.234440	-.201385	-.168851	-.140450	-.111051	-.072432	96
-.026827	.009631	.025743	.030420	.039032	.054998	.065764	.056280	97
.026784	-.010249	-.041110	-.050715	-.031503	.004874	.034793	.041929	98
.032651	.028555	.038548	.050494	.050855	.039444	.024692	.009265	99
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.015546	-.016379	-.040066	-.059381	-.084130	-.113909	-.135006	-.140347	104

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-.140922	-.146975	-.151213	-.140569	-.117822	-.100013	-.091827	-.076760	105
-.044952	-.011581	.004967	.011116	.029297	.062206	.086041	.087224	106
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-.072118	-.118192	-.130693	-.107882	-.078255	-.074000	-.090076	-.090126	109
-.054772	-.008317	.016296	.023005	.037509	.067830	.107343	.157764	110
.222288	.273122	.260444	.188468	.136784	.158641	.202348	.174158	111
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.107955	.065728	.039321	.031414	.036431	.042383	.033339	.006153	124
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-.004187	.015565	.039725	.054943	.061496	.070870	.093770	.130656	128
.164553	.177438	.169428	.153924	.148814	.163945	.191010	.216478	129
.231609	.232827	.227726	.225832	.226871	.225470	.213025	.180711	130
.129565	.068099	.007397	-.043416	-.083497	-.112479	-.129105	-.141009	131
-.157697	-.183867	-.217307	-.242742	-.247266	-.234104	-.212832	-.197581	132
-.195778	-.194328	-.179918	-.146008	-.085831	-.006514	.079991	.164617	133
.224888	.250105	.252009	.233847	.200331	.167524	.122486	.069258	134
.037956	.006420	-.044345	-.076118	-.077246	-.070525	-.055165	-.030935	135
-.004872	.030104	.070441	.102929	.126246	.142845	.158787	.177091	136
.182483	.158028	.101692	.030558	-.019924	-.027165	.002763	.054001	137
.103821	.128012	.121778	.095211	.061506	.031927	.003802	-.033361	138
-.080465	-.127644	-.158732	-.163604	-.150426	-.133915	-.120916	-.109554	139
-.093444	-.072688	-.055397	-.043885	-.031287	-.008397	.028410	.070353	140
.103996	.122637	.126049	.119597	.110596	.102141	.096032	.093726	141
.093242	.094634	.098318	.102563	.103141	.090333	.055794	.005510	142
-.043474	-.075646	-.087782	-.092743	-.105371	-.127189	-.148471	-.156249	143
-.144487	-.122103	-.105335	-.101959	-.112189	-.131057	-.149140	-.154751	144
-.141738	-.116518	-.093078	-.082068	-.084319	-.090647	-.091110	-.084621	145
-.077893	-.079780	-.093090	-.107215	-.104168	-.071970	-.015128	.042890	146
.076529	.078764	.060744	.040738	.031483	.029907	.025851	.017837	147
.012780	.016689	.026445	.031095	.026175	.019707	.021719	.033770	148
.046279	.047055	.033388	.010055	-.019623	-.055665	-.098179	-.141149	149
-.172078	-.181972	-.170908	-.145442	-.114623	-.084581	-.056936	-.030677	150
-.001417	.035007	.075372	.108495	.120306	.102814	.060972	.007397	151
-.046941	-.095139	-.132925	-.157226	-.167889	-.169304	-.164813	-.150759	152
-.118944	-.065974	-.003019	.047577	.069530	.063294	.041730	.017931	153
-.005000	-.030326	-.056046	-.073155	-.073674	-.058569	-.038337	-.023845	154
-.018190	-.016749	-.010311	.009855	.046239	.091974	.130878	.145680	155
.132099	.104058	.084386	.086994	.103904	.111343	.088851	.033941	156
-.035661	-.092945	-.116582	-.098919	-.047991	.016241	.071903	.104666	157
.113274	.107983	.100368	.094925	.088397	.073838	.047417	.011423	158
-.028214	-.064480	-.092756	-.112039	-.122127	-.123979	-.118716	-.103778	159

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-.080650	-.059490	-.049815	-.053380	-.064298	-.072251	-.071269	-.063606	160
-.054691	-.050168	-.054003	-.066086	-.081810	-.090470	-.078935	-.043671	161
.002998	.038765	.046433	.029417	.010180	.012087	.042150	.084966	162
.112964	.105718	.060992	-.006010	-.072389	-.121992	-.151862	-.168078	163
-.177675	-.180528	-.170330	-.144479	-.108409	-.071697	-.041645	-.018283	164
.003608	.029046	.060783	.098697	.139636	.176519	.197046	.190715	165
.158338	.113552	.075696	.058168	.060387	.072200	.083047	.085761	166
.077048	.057027	.029607	.003073	-.014271	-.019488	-.015219	-.006673	167
.002361	.010852	.018165	.024395	.032282	.044729	.060177	.070554	168
.067224	.050575	.032707	.025579	.029086	.030549	.018786	-.001332	169
-.012656	-.003524	.019642	.036873	.033295	.011943	-.012696	-.029350	170
-.037451	-.042136	-.043302	-.033926	-.009669	.023352	.049945	.056878	171
.038486	.006726	-.026919	-.053876	-.072593	-.085200	-.092266	-.092430	172
-.084842	-.071524	-.058042	-.049837	-.048569	-.052545	-.058800	-.065815	173
-.074551	-.086224	-.100694	-.116047	-.127830	-.130052	-.117630	-.089330	174
-.050091	-.008464	.029325	.062023	.090914	.114865	.128881	.129694	175
.121111	.111864	.108138	.108275	.106418	.101493	.099911	.109048	176
.128923	.150823	.164849	.167239	.159860	.145579	.125824	.102823	177
.082894	.074004	.079762	.097165	.119047	.138444	.150896	.153218	178
.143610	.123531	.096726	.065975	.030895	-.009963	-.053036	-.088282	179
-.106270	-.105843	-.094766	-.082527	-.072444	-.062998	-.055062	-.054264	180
-.065981	-.088361	-.111736	-.126823	-.131571	-.129275	-.122506	-.109938	181
-.089467	-.063771	-.040095	-.024614	-.018703	-.019943	-.025719	-.035452	182
-.049015	-.064464	-.078746	-.089935	-.098253	-.105615	-.113719	-.122118	183
-.128965	-.132460	-.130687	-.123653	-.115857	-.112896	-.116580	-.124167	184
-.129889	-.128517	-.118138	-.100074	-.080252	-.067201	-.064164	-.067702	185
-.072471	-.073904	-.072823	-.076489	-.089095	-.105075	-.113065	-.104870	186
-.083426	-.059885	-.041450	-.026139	-.007911	.015167	.037326	.051671	187
.057846	.060313	.062760	.065202	.066012	.067013	.072214	.081706	188
.090772	.093794	.089055	.079916	.069317	.056966	.043457	.032980	189
.031701	.042177	.058538	.071582	.077445	.079177	.082834	.090768	190
.098927	.103062	.103382	.103601	.108990	.121443	.136562	.147365	191
.147258	.133025	.108810	.083189	.063382	.052630	.048818	.047186	192
.045099	.042056	.038054	.033273	.027924	.021874	.013459	.001282	193
-.011803	-.020138	-.018957	-.006876	.010269	.023193	.030496	.040064	194
.059414	.086623	.108787	.112547	.097146	.074700	.060457	.062634	195
.077804	.095306	.104358	.098311	.077977	.061524	.028985	.015809	196
.009569	.003725	-.004317	-.011282	-.013876	-.014067	-.016729	-.021317	197
-.018712	-.000154	.031549	.061618	.075627	.071991	.060473	.050430	198
.043768	.038605	.036585	.041809	.051154	.051225	.029995	-.007775	199
-.039501	-.043746	-.020392	.009912	.025269	.021813	.013825	.014809	200
.022818	.024617	.010235	-.016252	-.041234	-.056614	-.065780	-.077105	201
-.094452	-.111199	-.116255	-.106091	-.086451	-.067098	-.055294	-.049235	202
-.043375	-.037145	-.029372	-.016181	-.000192	.012766	.023396	.034380	203
.044499	.052129	.056717	.057315	.054208	.049144	.042729	.034821	204
.026424	.018257	.009713	.000797	-.007303	-.013576	-.017676	-.019921	205
-.021147	-.022190	-.023280	-.024102	-.025117	-.027408	-.030552	-.033560	206
-.036819	-.040513	-.042788	-.043561	-.042738	-.040705	-.038023	-.034953	207
-.031674	-.028379	-.025006	-.021637	-.018152	-.014064	-.009369	-.004285	208
.000877	.005311	.008506	.010413	.011360	.012402	.013805	.014950	209
.016343	.018300	.019673	.019683	.018064	.014439	.008772	.000970	210
-.008471	-.018221	-.027969	-.037625	-.045696	-.051074	-.053815	-.053984	211
-.051633	-.047000	-.040742	-.033999	-.027428	-.021251	-.015996	-.011886	212
-.008267	-.004574	-.001835	-.001648	-.003510	-.005973	-.009034	-.012589	213
-.015937	-.019440	-.023740	-.029171	-.036012	-.043445	-.050207	-.055459	214

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-.057787	-.056385	-.052416	-.047189	-.041325	-.035362	-.029423	-.023408	215
-.017260	-.010696	-.003700	.003346	.010236	.016529	.021005	.022647	216
.021627	.018607	.014215	.009408	.004576	-.000366	-.003991	-.004748	217
-.003657	-.002098	-.001358	-.002380	-.005565	-.010023	-.013712	-.014135	218
-.010738	-.004959	.002056	.008730	.012691	.013130	.010935	.007612	219
.004916	.003790	.004333	.006222	.008229	.009241	.009194	.008324	220
.007316	.007176	.008123	.009798	.011746	.013168	.012875	.009947	221
.005035	-.000383	-.006093	-.012230	-.018048	-.023037	-.026828	-.028689	222
-.028295	-.025701	-.021520	-.017028	-.012508	-.007430	-.002211	.002677	223
.007678	.012709	.016459	.017805	.017047	.015307	.013785	.013721	224
.015373	.017895	.021023	.024603	.027530	.029103	.029316	.028071	225
.025665	.022578	.018850	.016575	.010244	.006394	.003085	.000109	226
-.002137	-.003175	-.002930	-.000985	.002745	.007746	.014029	.021068	227
.027397	.032136	.034159	.032594	.029116	.025877	.023086	.020674	228
.019128	.018626	.018888	.019436	.020103	.020904	.021843	.023530	229
.026144	.028909	.031973	.035321	.036699	.034411	.029618	.024344	230
.019759	.016366	.014255	.012772	.010645	.007146	.002276	-.003737	231
-.009576	-.013430	-.015074	-.014825	-.011970	-.006599	-.000633	.003999	232
.006285	.006086	.005081	.005758	.008354	.011614	.015314	.018964	233
.021230	.021753	.020425	.016891	.011876	.006320	.001027	-.002557	234
-.003864	-.003490	-.001967	-.000562	-.000912	-.003493	-.007938	-.013268	235
-.018354	-.022774	-.026259	-.028625	-.029667	-.028706	-.026270	-.023931	236
-.021879	-.020119	-.019210	-.018459	-.017193	-.015416	-.012379	-.008119	237
-.003801	-.000028	.002181	.001841	-.000147	-.007684	-.005519	-.008105	238
-.009843	-.010441	-.010062	-.009524	-.009282	-.009322	-.009830	-.010411	239
-.010462	-.010201	-.009658	-.008977	-.009905	-.013921	-.020102	-.026787	240
-.032964	-.037554	-.040098	-.041185	-.040749	-.038511	-.035469	-.032364	241
-.028962	-.025395	-.021758	-.018034	-.014853	-.011538	-.010780	-.009349	242
-.007962	-.006609	-.005348	-.003856	-.002422	-.001482	-.000726	-.000178	243
.000079	.000513	.001115	.001846	.002745	.003013	.002148	.000138	244
-.003092	-.006640	-.009567	-.011795	-.012987	-.013563	-.014522	-.015809	245
-.017863	-.021119	-.024185	-.026252	-.027292	-.026669	-.025178	-.023864	246
-.021996	-.019377	-.016105	-.011685	-.007002	-.003062	.000224	.002420	247
.003379	.003555	.002949	.002048	.001146	-.000447	-.002526	-.004673	248
-.007378	-.010275	-.012229	-.012618	-.011266	-.008774	-.006176	-.003955	249
-.002287	-.000955	.001002	.004269	.008086	.011078	.012918	.013841	250
.013612	.012506	.011271	.010210	.009538	.009072	.008616	.008596	251
.008313	.006771	.004380	.000805	-.003840	-.007243	-.008941	-.010274	252
-.011332	-.012407	-.013455	-.013824	-.014447	-.015407	-.015876	-.016901	253
-.018405	-.019311	-.020096	-.020207	-.019259	-.018257	-.016553	-.014500	254
-.013302	-.011449	-.009250	-.008012	-.006030	-.003925	-.002786	-.001360	255
-.002276	-.005822	-.006862	-.007364	-.010641	-.011980	-.009441	-.004638	256

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(10/01/90)

AP600 - Acceleration Time History compatible to the 'MODIFIED Rag-Guild 1.60 Target ARS at 2%, 3%, 4%, and 7% dampings' for Vertical direction. Modified BECHTEL Standard time history (V) with 2048 points at 0.01 second. (maximum acceleration = .300 g)

-.024774	-.034034	-.027353	-.018512	-.010226	.001149	.001229	-.010885	1
-.001140	.045721	.089884	.090924	.061303	.035919	.021222	.005024	2
-.004942	.009068	.028763	.011699	-.034441	-.049002	-.017407	.004698	3
-.001237	.012104	.044436	.032415	-.017050	-.019969	.030640	.053052	4
.030098	.021296	.030078	.011879	-.008900	.023287	.074932	.074171	5
.038458	.033834	.054550	.048457	.017900	.003225	.002653	-.011898	6
-.027802	-.010788	.028591	.049201	.046227	.048038	.058030	.054050	7
.036683	.026461	.021403	.005119	-.012614	-.008545	.008829	.006624	8
-.022938	-.050881	-.051848	-.036414	-.034172	-.053068	-.071472	-.073195	9
-.069498	-.067613	-.057911	-.028324	.003083	.006228	-.027483	-.076881	10
-.107153	-.098010	-.063545	-.031492	-.005420	.022069	.029392	-.005228	11
-.042898	-.024706	.030343	.049654	.023015	.003012	.001499	-.012282	12
-.026171	-.005685	.022042	.011675	-.009318	.002063	.011674	-.021704	13
-.054339	-.037669	-.008575	-.009167	-.010458	.006992	.000678	-.039652	14
-.050920	-.004515	.041404	.037895	.010905	.004026	.022553	.053418	15
.091173	.124641	.125813	.076740	.004245	-.039091	-.040525	-.040944	16
-.065036	-.084617	-.077582	-.066925	-.070564	-.069848	-.053952	-.040626	17
-.036907	-.031063	-.029221	-.051011	-.085453	-.092010	-.053327	-.002316	18
.014614	-.007538	-.029128	-.018266	.015032	.043012	.049995	.032133	19
-.000480	-.022279	-.022545	-.019849	-.021411	-.008807	.013521	.014464	20
-.004576	-.016189	-.028185	-.059319	-.080387	-.064137	-.047465	-.064676	21
-.086436	-.089972	-.099180	-.107361	-.071647	-.015004	-.010202	-.050578	22
-.065597	-.056839	-.085221	-.140668	-.153629	-.118644	-.094954	-.101662	23
-.102792	-.081793	-.060405	-.050954	-.039398	-.018176	-.004775	-.015521	24
-.036765	-.042228	-.032735	-.032578	-.048314	-.067748	-.058995	-.043292	25
-.012678	.028644	.053196	.035729	-.011119	-.054657	-.083222	-.100692	26
-.094542	-.048426	.015226	.047955	.042835	.046003	.080487	.109779	27
.107124	.099997	.105970	.093126	.049055	.016499	.019624	.029016	28
.026566	.026172	.020057	-.014160	-.058387	-.079350	-.082738	-.082618	29
-.067623	-.044602	-.046716	-.066491	-.060267	-.029300	-.011215	-.004289	30
.012319	.017099	-.011548	-.041999	-.050403	-.069246	-.114563	-.140044	31
-.115027	-.074427	-.052927	-.037579	-.012301	.009609	.017668	.025424	32
.043832	.058272	.045688	.010118	-.010891	.009925	.048463	.059336	33
.037290	.012586	-.001300	-.011194	-.010771	.003068	.024967	.018009	34
.004356	.013209	.039069	.059698	.074788	.087627	.076428	.028856	35
-.018965	-.027013	-.015066	-.027731	-.054599	-.052720	-.035599	-.055721	36
-.099418	-.095325	-.039652	-.012400	-.048564	-.091192	-.091051	-.059208	37
-.010630	.054321	.109846	.123902	.108390	.093215	.079687	.061919	38
.050949	.050886	.056775	.077637	.114075	.135508	.125597	.110822	39
.110543	.113601	.119676	.137242	.143730	.117559	.087792	.088737	40
.105994	.119496	.142518	.178377	.201146	.202907	.201010	.197316	41
.182234	.162595	.144427	.116449	.075764	.036620	.008627	-.000964	42
.018055	.047865	.043061	-.001591	-.026868	.013810	.094428	.158374	43
.179866	.164464	.127760	.094537	.088377	.100064	.090020	.043273	44
-.003228	-.013488	-.001496	.008197	.029594	.074605	.105529	.089412	45
.058656	.054859	.056848	.028174	-.009536	-.015612	-.004669	-.022184	46
-.071179	-.111451	-.118707	-.108673	-.103116	-.097145	-.073664	-.037300	47
-.010780	-.002300	-.004158	-.017279	-.041230	-.050886	-.028703	-.005209	48
-.015377	-.037590	-.034988	-.025183	-.040819	-.059162	-.045289	-.023741	49

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-.032545	-.052044	-.051042	-.052275	-.083894	-.117782	-.115545	-.087238	50
.060492	-.039756	-.026196	-.034622	-.069845	-.113057	-.139459	-.139233	51
-.126133	-.120205	-.114785	-.087249	-.051868	-.053598	-.096923	-.138352	52
-.157760	-.174207	-.188533	-.171944	-.114952	-.041662	.023522	.075911	53
.118638	.141354	.124288	.079646	.062445	.099729	.146750	.163033	54
.172340	.189227	.166494	.083271	.002884	-.017178	.003586	.028755	55
.062819	.117778	.175586	.204626	.189692	.136343	.067585	-.006779	56
-.073808	-.105970	-.100587	-.096116	-.105570	-.093498	-.062462	-.071485	57
-.125328	-.156715	-.150771	-.160336	-.179990	-.142392	-.048825	.028005	58
.069419	.118703	.167533	.163263	.096763	.031809	.017989	.036592	59
.050394	.058301	.070161	.068858	.040092	.005800	-.010953	-.015430	60
-.007949	.026104	.075583	.113378	.146854	.193452	.227358	.214433	61
.194398	.199457	.202775	.170016	.107445	.041252	-.014305	-.054907	62
-.083282	-.109539	-.138958	-.166243	-.183886	-.188230	-.183871	-.177970	63
-.159340	-.105856	-.030225	.020243	.029654	.030025	.042201	.060665	64
.092949	.145285	.181883	.164097	.110072	.064732	.036624	.012335	65
.001114	.012255	.011405	-.038754	-.103030	-.110341	-.066768	-.039744	66
-.023043	.051167	.149458	.157983	.088777	.070506	.127246	.172010	67
.190070	.215903	.191948	.066254	-.048376	-.016145	.100282	.133946	68
.048083	-.064426	-.133375	-.151488	-.131509	-.103434	-.111997	-.170219	69
-.237183	-.264423	-.244933	-.199203	-.147260	-.085681	-.027189	.024443	70
.074058	.102173	.083822	.046716	.053414	.106365	.135693	.088120	71
-.029065	-.154563	-.191006	-.119282	-.056677	-.073335	-.032658	.126987	72
.211503	.094081	-.068916	-.138616	-.194762	-.272516	-.233614	-.098539	73
.000237	.048000	.103490	.132961	.115957	.149568	.222092	.191316	74
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