

URGENT FIELD SAFETY NOTICE

Subject: C Series Clinac® may fail to meet desired positioning tolerances for high-dose treatments, such as stereotactic radiosurgery and stereotactic radiotherapy

Commercial Name of Affected Product: Clinac
FSCA Identifier: CP-01925
Date of Notification: 2010/06/23
Type of Action: Notification

Details on Affected Devices:

All C series Clinacs (see Appendix for complete list).

Description of Problem:

We are writing to advise you of anomalies that have been identified with Varian radiotherapy equipment which may lead to patient or field positioning errors which exceed the small tolerances required by high-dose hypo-fractionated techniques, such as stereotactic radiosurgery and stereotactic radiotherapy treatments. This notice provides a description of the issues, and the actions you can take to avoid or mitigate the issues.

Anomaly:

This letter is intended to inform you about anomalies with the Clinac collimator and couches that can result in small patient or field positioning errors that may adversely affect high-dose treatments requiring small positioning tolerances, such as stereotactic radiosurgery (SRS) and stereotactic radiotherapy (SRT).

Additionally this letter is intended to provide general guidelines for the proper use of Varian radiotherapy equipment for SRS and SRT treatments.

Details:

The following two issues have been identified:

Collimator Angle Errors

Varian has identified an anomaly on Clinacs whereby the chain that positions the collimator may skip one or more teeth on the sprocket of the potentiometer used for collimator positioning. This affects Clinacs that do not make use of a secondary position readout for collimator positioning, including all Low Energy Clinacs and High Energy Clinacs using pre-v7 Clinac software. Each tooth on the sprocket corresponds to approximately 1.5 degrees of collimator rotation. It is expected that the chain may skip several teeth before becoming apparent; the resulting cumulative collimator angle deviation may exceed 5 degrees. Beyond 5 degrees it becomes increasingly likely that the incorrect collimator angle would be detected by the user during typical clinical use of the linear accelerator. Methods used to verify field shape and position, such as port films or electronic portal images, are expected to identify even small collimator angle deviations.

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The collimator angle deviation will affect all treatments. However it is expected that small deviations, which are less likely to be detected, would be most significant for those treatments that require small position tolerances, such as SRS or SRT treatments.

Couch Positioning

Varian has identified an anomaly whereby the belt used to position the longitudinal carriage of the couch may become loose, resulting in incorrect longitudinal positioning of the couch by up to 2.5 millimeters. This anomaly manifests as slack in longitudinal couch positioning. This anomaly is most likely to affect treatments that make use of remote couch positioning. The couch position deviation is most likely to have a significant clinical effect on SRS and SRT treatments which require small positioning tolerances. Varian has identified this anomaly by internal testing and is not aware of this anomaly occurring at any clinical installation.

Additionally Varian has become aware that, when performing SRS or SRT treatments, some users do not use 3rd-party patient positioning systems intended for sub-millimeter positioning of SRS and SRT treatments. Alternately, when a difference occurs between a 3rd-party positioning system and Varian remote positioning coordinates, some users may choose to use the Varian coordinates over the 3rd-party positioning system. Varian couches have a positioning resolution of 1 mm and are generally less precise than current 3rd-party patient positioning system intended for SRS/SRT treatments. Varian strongly urges that customers follow the recommendations of AAPM Report No. 54, *Stereotactic Radiosurgery*¹, which recommends the use of such a positioning device.

Recommended User Action:

When performing high-dose treatments that require small positioning tolerances, such as SRS or SRT treatments, you are advised to:

- Prior to the start of a treatment, verify the operation of those linear accelerator components that directly affect patient and field positioning. These may include isocenter accuracy, gantry angle, collimator angle, jaw positioning, and table positioning.
- Verify patient position and alignment to the anatomical target to a precision and accuracy commensurate with the clinical requirements of SRS/SRT treatments. Typically this requires the use a 3rd-party sub-millimeter patient positioning system intended for SRS/SRT treatments.
- When a discrepancy is noted between the position reported by a 3rd-party patient positioning system and the position according to Varian positioning coordinates, the user should investigate the cause of that discrepancy and verify that the patient is correctly positioned.
- Verify the field shape and positioning prior to the treatment of each field. This is typically done by imaging of the field portal, either by film or electronic portal imager.

¹ Schell M et al. AAPM Report No. 54, *Stereotactic Radiosurgery: Report of Task Group 42 Radiation Therapy Committee*. June 1995.

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Varian Actions:

- Varian is notifying all affected customers with this document.

Please advise the appropriate personnel working in your radiotherapy department of the content of this letter.

We sincerely apologize for any inconvenience and thank you in advance for your cooperation. If you require further clarification, please feel free to contact your local Varian Customer Support District or Regional Manager.

The undersigned confirms that this notice has been provided to the appropriate Regulatory Agency.



2010/06/23



Date

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APPENDIX LIST OF AFFECTED DEVICE SERIAL NUMBERS

Listed are the affected system Serial Numbers. The last four digits represent the serial number of the device.

H140001	H140038	H140074	H140111	H140146	H140227	H140721	H140756	H140791	H140826
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H180906	H181040	H181084	H181133	H181181	H230242	H260939	H270116	H270273	H270352
H180907	H181041	H181085	H181134	H181185	H230245	H260940	H270118	H270274	H270353
H181000	H181042	H181086	H181135	H181187	H230248	H260942	H270123	H270277	H270355
H181001	H181043	H181087	H181136	H230002	H230249	H260944	H270126	H270280	H270356
H181002	H181044	H181088	H181137	H230007	H230252	H260946	H270128	H270281	H270360
H181003	H181045	H181089	H181138	H230008	H230254	H260947	H270134	H270282	H270361
H181004	H181046	H181090	H181139	H230034	H230255	H260948	H270136	H270284	H270364
H181005	H181047	H181091	H181140	H230035	H230256	H260949	H270138	H270285	H270365
H181006	H181048	H181092	H181141	H230039	H230258	H260950	H270141	H270288	H270370
H181007	H181049	H181093	H181142	H230057	H230263	H260951	H270143	H270290	H270371
H181008	H181050	H181094	H181143	H230062	H230265	H260952	H270144	H270293	H270373
H181009	H181051	H181095	H181145	H230064	H230268	H260953	H270201	H270297	H270375
H181010	H181052	H181096	H181146	H230067	H230270	H270001	H270209	H270299	H270377
H181011	H181053	H181097	H181147	H230071	H230271	H270004	H270211	H270300	H270378
H181012	H181055	H181098	H181148	H230081	H230272	H270006	H270214	H270302	H270380
H181013	H181056	H181100	H181149	H230094	H230276	H270009	H270215	H270303	H270381
H181014	H181057	H181101	H181151	H230099	H230277	H270010	H270216	H270305	H270384
H181015	H181058	H181102	H181152	H230105	H230279	H270021	H270219	H270307	H270385
H181016	H181059	H181103	H181153	H230112	H230284	H270026	H270226	H270308	H270386
H181017	H181060	H181104	H181154	H230113	H230286	H270027	H270227	H270310	H270391
H181018	H181061	H181106	H181155	H230130	H230287	H270029	H270228	H270311	H270392
H181019	H181062	H181107	H181156	H230132	H230288	H270030	H270229	H270314	H270395
H181020	H181063	H181108	H181157	H230141	H230290	H270031	H270230	H270316	H270396
H181021	H181064	H181109	H181158	H230158	H230293	H270038	H270232	H270320	H270397
H181022	H181065	H181110	H181159	H230159	H260901	H270045	H270233	H270321	H270398

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H270399	H270464	H270522	H270642	H270702	H270759	H270814	H270868	H271018	H271072
H270400	H270466	H270525	H270643	H270703	H270760	H270817	H270869	H271019	H271073
H270401	H270468	H270526	H270644	H270705	H270761	H270819	H270870	H271020	H271075
H270404	H270470	H270529	H270645	H270708	H270762	H270820	H270871	H271021	H271076
H270408	H270471	H270530	H270646	H270709	H270763	H270821	H270872	H271022	H271079
H270409	H270472	H270532	H270647	H270710	H270766	H270822	H270873	H271023	H271080
H270410	H270473	H270534	H270648	H270711	H270767	H270823	H270875	H271024	H271082
H270412	H270474	H270535	H270649	H270712	H270768	H270825	H270877	H271025	H271083
H270416	H270475	H270539	H270651	H270713	H270769	H270826	H270878	H271026	H271084
H270418	H270476	H270540	H270652	H270714	H270770	H270827	H270879	H271027	H271085
H270419	H270477	H270542	H270653	H270715	H270775	H270828	H270880	H271029	H271086
H270420	H270479	H270544	H270654	H270716	H270776	H270829	H270881	H271031	H271087
H270421	H270482	H270545	H270656	H270717	H270777	H270832	H270882	H271032	H271088
H270425	H270483	H270546	H270658	H270718	H270778	H270833	H270883	H271033	H271089
H270426	H270484	H270547	H270660	H270719	H270779	H270835	H270884	H271034	H271091
H270427	H270485	H270550	H270661	H270721	H270781	H270836	H270885	H271035	H271092
H270428	H270486	H270601	H270662	H270722	H270782	H270837	H270886	H271036	H271093
H270430	H270487	H270602	H270663	H270723	H270783	H270838	H270887	H271037	H271094
H270431	H270489	H270603	H270664	H270725	H270785	H270840	H270888	H271038	H271095
H270433	H270490	H270605	H270665	H270726	H270786	H270841	H270889	H271039	H271096
H270435	H270495	H270606	H270667	H270727	H270787	H270842	H270890	H271040	H271097
H270436	H270496	H270607	H270669	H270728	H270788	H270843	H270891	H271041	H271098
H270437	H270498	H270613	H270670	H270729	H270789	H270844	H270892	H271042	H271099
H270438	H270499	H270615	H270671	H270730	H270790	H270845	H270893	H271043	H271100
H270439	H270500	H270616	H270672	H270731	H270791	H270846	H270894	H271044	H271101
H270443	H270501	H270617	H270673	H270732	H270792	H270847	H270895	H271046	H271102
H270445	H270502	H270618	H270674	H270733	H270793	H270848	H270896	H271047	H271103
H270446	H270503	H270622	H270675	H270735	H270794	H270849	H270897	H271051	H271104
H270447	H270504	H270623	H270680	H270736	H270795	H270850	H270898	H271052	H271105
H270448	H270505	H270624	H270681	H270737	H270796	H270852	H270899	H271055	H271106
H270449	H270506	H270625	H270682	H270739	H270797	H270854	H271000	H271056	H271107
H270450	H270507	H270626	H270684	H270740	H270799	H270855	H271002	H271057	H271108
H270451	H270508	H270627	H270685	H270741	H270800	H270857	H271004	H271059	H271109
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H270454	H270510	H270631	H270690	H270744	H270804	H270859	H271006	H271062	H271111
H270455	H270511	H270632	H270692	H270745	H270805	H270861	H271007	H271063	H271112
H270457	H270512	H270633	H270693	H270746	H270806	H270862	H271008	H271065	H271113
H270458	H270513	H270634	H270695	H270749	H270808	H270863	H271009	H271066	H271114
H270459	H270514	H270635	H270697	H270751	H270809	H270864	H271013	H271067	H271115
H270461	H270516	H270637	H270698	H270752	H270810	H270865	H271015	H271068	H271116
H270462	H270518	H270639	H270699	H270755	H270812	H270866	H271016	H271070	H271117
H270463	H270520	H270641	H270700	H270757	H270813	H270867	H271017	H271071	H271118

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H271120	H271171	H271217	H271268	H271311	H271358	H271403	H271446	H271489	H271532
H271121	H271172	H271218	H271269	H271312	H271359	H271404	H271447	H271490	H271533
H271123	H271174	H271219	H271271	H271314	H271360	H271406	H271448	H271491	H271534
H271124	H271175	H271220	H271272	H271315	H271361	H271407	H271449	H271492	H271535
H271125	H271176	H271222	H271273	H271316	H271362	H271408	H271450	H271493	H271536
H271126	H271177	H271223	H271274	H271317	H271363	H271409	H271451	H271494	H271537
H271127	H271178	H271224	H271275	H271318	H271364	H271410	H271452	H271495	H271538
H271128	H271179	H271225	H271276	H271319	H271365	H271411	H271453	H271496	H271539
H271130	H271182	H271226	H271277	H271320	H271367	H271412	H271454	H271497	H271540
H271131	H271183	H271227	H271278	H271321	H271369	H271413	H271455	H271498	H271541
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H271133	H271185	H271229	H271280	H271323	H271371	H271415	H271457	H271500	H271543
H271135	H271186	H271230	H271281	H271324	H271372	H271416	H271458	H271501	H271544
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H271138	H271189	H271233	H271284	H271328	H271375	H271419	H271461	H271504	H271547
H271139	H271190	H271234	H271285	H271329	H271376	H271420	H271462	H271505	H271548
H271141	H271191	H271235	H271286	H271330	H271377	H271421	H271463	H271506	H271549
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H271143	H271193	H271237	H271288	H271332	H271379	H271423	H271465	H271508	H271551
H271144	H271194	H271238	H271289	H271333	H271380	H271424	H271466	H271509	H271552
H271145	H271195	H271239	H271290	H271334	H271381	H271425	H271467	H271510	H271553
H271146	H271196	H271241	H271291	H271335	H271382	H271426	H271468	H271511	H271554
H271149	H271197	H271242	H271292	H271336	H271383	H271427	H271469	H271512	H271555
H271151	H271198	H271243	H271293	H271337	H271384	H271428	H271470	H271513	H271557
H271152	H271199	H271245	H271294	H271338	H271385	H271429	H271471	H271514	H271558
H271153	H271200	H271247	H271295	H271339	H271386	H271430	H271472	H271515	H271559
H271154	H271201	H271248	H271296	H271340	H271387	H271431	H271473	H271516	H271560
H271155	H271202	H271249	H271297	H271342	H271388	H271432	H271474	H271517	H271561
H271157	H271204	H271250	H271298	H271343	H271389	H271433	H271475	H271518	H271562
H271159	H271205	H271251	H271299	H271344	H271390	H271434	H271476	H271519	H271563
H271160	H271206	H271253	H271300	H271345	H271391	H271435	H271477	H271520	H271564
H271161	H271207	H271254	H271301	H271346	H271392	H271436	H271478	H271521	H271565
H271162	H271208	H271256	H271302	H271347	H271393	H271437	H271479	H271522	H271566
H271163	H271209	H271257	H271303	H271348	H271394	H271438	H271480	H271523	H271567
H271164	H271210	H271259	H271304	H271349	H271395	H271439	H271481	H271525	H271568
H271165	H271211	H271260	H271305	H271350	H271397	H271440	H271483	H271526	H271569
H271166	H271212	H271263	H271306	H271351	H271398	H271441	H271484	H271527	H271570
H271167	H271213	H271264	H271307	H271353	H271399	H271442	H271485	H271528	H271571
H271168	H271214	H271265	H271308	H271355	H271400	H271443	H271486	H271529	H271572
H271169	H271215	H271266	H271309	H271356	H271401	H271444	H271487	H271530	H271573
H271170	H271216	H271267	H271310	H271357	H271402	H271445	H271488	H271531	H271574

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H271575	H271618	H271660	H271703	H271745	H271788	H271830	H271872	H271915	H271957
H271576	H271619	H271661	H271704	H271746	H271789	H271831	H271873	H271916	H271958
H271577	H271620	H271662	H271705	H271747	H271790	H271832	H271874	H271917	H271959
H271578	H271621	H271663	H271706	H271748	H271791	H271833	H271875	H271918	H271960
H271580	H271622	H271664	H271707	H271749	H271792	H271834	H271876	H271919	H271961
H271581	H271623	H271665	H271708	H271750	H271793	H271835	H271877	H271920	H271962
H271582	H271624	H271666	H271709	H271751	H271794	H271836	H271878	H271921	H271963
H271583	H271625	H271667	H271710	H271752	H271795	H271837	H271879	H271922	H271964
H271584	H271626	H271668	H271711	H271753	H271796	H271838	H271880	H271923	H271965
H271585	H271627	H271669	H271712	H271754	H271797	H271839	H271881	H271924	H271966
H271586	H271628	H271670	H271713	H271755	H271798	H271840	H271882	H271925	H271967
H271587	H271629	H271671	H271714	H271756	H271799	H271841	H271883	H271926	H271968
H271588	H271630	H271672	H271715	H271757	H271800	H271842	H271884	H271927	H271969
H271589	H271631	H271673	H271716	H271758	H271801	H271843	H271885	H271928	H271970
H271590	H271632	H271674	H271717	H271759	H271802	H271844	H271886	H271929	H271971
H271591	H271633	H271675	H271718	H271760	H271803	H271845	H271887	H271930	H271972
H271592	H271634	H271676	H271719	H271761	H271804	H271846	H271888	H271931	H271973
H271593	H271635	H271677	H271720	H271762	H271805	H271847	H271889	H271932	H271974
H271594	H271636	H271678	H271721	H271763	H271806	H271848	H271890	H271933	H271975
H271595	H271637	H271679	H271722	H271764	H271807	H271849	H271891	H271934	H271976
H271596	H271638	H271680	H271723	H271765	H271808	H271850	H271892	H271935	H271977
H271597	H271639	H271681	H271724	H271766	H271809	H271851	H271893	H271936	H271978
H271598	H271640	H271682	H271725	H271767	H271810	H271852	H271894	H271937	H271980
H271599	H271641	H271683	H271726	H271768	H271811	H271853	H271895	H271938	H271981
H271600	H271642	H271684	H271727	H271770	H271812	H271854	H271896	H271939	H271982
H271601	H271643	H271685	H271728	H271771	H271813	H271855	H271897	H271940	H271983
H271602	H271644	H271686	H271729	H271772	H271814	H271856	H271898	H271941	H271984
H271603	H271645	H271687	H271730	H271773	H271815	H271857	H271899	H271942	H271985
H271604	H271646	H271688	H271731	H271774	H271816	H271858	H271901	H271943	H271986
H271605	H271647	H271689	H271732	H271775	H271817	H271859	H271902	H271944	H271987
H271606	H271648	H271691	H271733	H271776	H271818	H271860	H271903	H271945	H271988
H271607	H271649	H271692	H271734	H271777	H271819	H271861	H271904	H271946	H271989
H271608	H271650	H271693	H271735	H271778	H271820	H271862	H271905	H271947	H271990
H271609	H271651	H271694	H271736	H271779	H271821	H271863	H271906	H271948	H271991
H271610	H271652	H271695	H271737	H271780	H271822	H271864	H271907	H271949	H271992
H271611	H271653	H271696	H271738	H271781	H271823	H271865	H271908	H271950	H271993
H271612	H271654	H271697	H271739	H271782	H271824	H271866	H271909	H271951	H271994
H271613	H271655	H271698	H271740	H271783	H271825	H271867	H271910	H271952	H271995
H271614	H271656	H271699	H271741	H271784	H271826	H271868	H271911	H271953	H271996
H271615	H271657	H271700	H271742	H271785	H271827	H271869	H271912	H271954	H271997
H271616	H271658	H271701	H271743	H271786	H271828	H271870	H271913	H271955	H271998
H271617	H271659	H271702	H271744	H271787	H271829	H271871	H271914	H271956	H271999

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H272000	H272043	H272085	H272127	H272169	H272212	H272255	H272298	H272340	H272382
H272001	H272044	H272086	H272128	H272170	H272213	H272256	H272299	H272341	H272383
H272002	H272045	H272087	H272129	H272171	H272214	H272258	H272300	H272342	H272384
H272003	H272046	H272088	H272130	H272172	H272215	H272259	H272301	H272343	H272385
H272004	H272047	H272089	H272131	H272173	H272216	H272260	H272302	H272344	H272386
H272005	H272048	H272090	H272132	H272174	H272217	H272261	H272303	H272345	H272387
H272006	H272049	H272091	H272133	H272175	H272218	H272262	H272304	H272346	H272388
H272007	H272050	H272092	H272134	H272176	H272219	H272263	H272305	H272347	H272389
H272008	H272051	H272093	H272135	H272177	H272220	H272264	H272306	H272348	H272390
H272009	H272052	H272094	H272136	H272178	H272221	H272265	H272307	H272349	H272391
H272010	H272053	H272095	H272137	H272179	H272222	H272266	H272308	H272350	H272392
H272011	H272054	H272096	H272138	H272180	H272223	H272267	H272309	H272351	H272393
H272012	H272055	H272097	H272139	H272181	H272224	H272268	H272310	H272352	H272394
H272013	H272056	H272098	H272140	H272182	H272225	H272269	H272311	H272353	H272395
H272014	H272057	H272099	H272141	H272183	H272226	H272270	H272312	H272354	H272396
H272015	H272058	H272100	H272142	H272184	H272227	H272271	H272313	H272355	H272397
H272016	H272059	H272101	H272143	H272185	H272228	H272272	H272314	H272356	H272398
H272017	H272060	H272102	H272144	H272186	H272229	H272273	H272315	H272357	H272399
H272018	H272061	H272103	H272145	H272187	H272230	H272274	H272316	H272358	H272400
H272019	H272062	H272104	H272146	H272188	H272231	H272275	H272317	H272359	H272401
H272020	H272063	H272105	H272147	H272189	H272232	H272276	H272318	H272360	H272402
H272021	H272064	H272106	H272148	H272190	H272233	H272277	H272319	H272361	H272403
H272022	H272065	H272107	H272149	H272191	H272234	H272278	H272320	H272362	H272404
H272023	H272066	H272108	H272150	H272192	H272235	H272279	H272321	H272363	H272405
H272024	H272067	H272109	H272151	H272193	H272236	H272280	H272322	H272364	H272406
H272025	H272068	H272110	H272152	H272194	H272237	H272281	H272323	H272365	H272407
H272026	H272069	H272111	H272153	H272195	H272238	H272282	H272324	H272366	H272408
H272027	H272070	H272112	H272154	H272196	H272239	H272283	H272325	H272367	H272409
H272028	H272071	H272113	H272155	H272198	H272240	H272284	H272326	H272368	H272410
H272029	H272072	H272114	H272156	H272199	H272241	H272285	H272327	H272369	H272411
H272030	H272073	H272115	H272157	H272200	H272242	H272286	H272328	H272370	H272412
H272031	H272074	H272116	H272158	H272201	H272243	H272287	H272329	H272371	H272413
H272032	H272075	H272117	H272159	H272202	H272244	H272288	H272330	H272372	H272414
H272033	H272076	H272118	H272160	H272203	H272245	H272289	H272331	H272373	H272415
H272034	H272077	H272119	H272161	H272204	H272246	H272290	H272332	H272374	H272416
H272035	H272078	H272120	H272162	H272205	H272247	H272291	H272333	H272375	H272417
H272036	H272079	H272121	H272163	H272206	H272248	H272292	H272334	H272376	H272418
H272037	H272080	H272122	H272164	H272207	H272249	H272293	H272335	H272377	H272419
H272038	H272081	H272123	H272165	H272208	H272250	H272294	H272336	H272378	H272420
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H272040	H272083	H272125	H272167	H272210	H272253	H272296	H272338	H272380	H272422
H272041	H272084	H272126	H272168	H272211	H272254	H272297	H272339	H272381	H272423

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H272424	H272467	H272813	H272856	H272899	H272941	H272984	H273028	H273070	H273113
H272425	H272468	H272814	H272857	H272900	H272942	H272985	H273029	H273071	H273114
H272426	H272469	H272815	H272858	H272901	H272943	H272986	H273030	H273072	H273115
H272427	H272470	H272816	H272859	H272902	H272944	H272987	H273031	H273073	H273116
H272428	H272471	H272817	H272860	H272903	H272946	H272988	H273032	H273074	H273117
H272429	H272472	H272818	H272861	H272904	H272947	H272989	H273033	H273075	H273118
H272430	H272473	H272819	H272862	H272905	H272948	H272990	H273034	H273076	H273119
H272431	H272475	H272820	H272863	H272906	H272949	H272991	H273035	H273077	H273120
H272432	H272476	H272821	H272864	H272907	H272950	H272992	H273036	H273078	H273121
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H272434	H272478	H272823	H272866	H272909	H272952	H272994	H273038	H273080	H273123
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H272438	H272483	H272827	H272870	H272913	H272956	H272998	H273042	H273084	H273127
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H272441	H272488	H272830	H272873	H272916	H272959	H273001	H273045	H273087	H273131
H272442	H272489	H272831	H272875	H272917	H272960	H273002	H273046	H273088	H273132
H272443	H272490	H272833	H272876	H272918	H272961	H273003	H273047	H273089	H273133
H272444	H272491	H272834	H272877	H272919	H272962	H273004	H273048	H273090	H273134
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H272446	H272493	H272836	H272879	H272921	H272964	H273006	H273050	H273092	H273136
H272447	H272494	H272837	H272880	H272922	H272965	H273007	H273051	H273093	H273137
H272448	H272495	H272838	H272881	H272923	H272966	H273008	H273052	H273094	H273138
H272449	H272496	H272839	H272882	H272924	H272967	H273010	H273053	H273095	H273139
H272450	H272497	H272840	H272883	H272925	H272968	H273011	H273054	H273097	H273140
H272451	H272498	H272841	H272884	H272926	H272969	H273012	H273055	H273098	H273141
H272452	H272500	H272842	H272885	H272927	H272970	H273013	H273056	H273099	H273142
H272453	H272800	H272843	H272886	H272928	H272971	H273014	H273057	H273100	H273143
H272454	H272801	H272844	H272887	H272929	H272972	H273016	H273058	H273101	H273144
H272455	H272802	H272845	H272888	H272930	H272973	H273017	H273059	H273102	H273145
H272456	H272803	H272846	H272889	H272931	H272974	H273018	H273060	H273103	H273146
H272457	H272804	H272847	H272890	H272932	H272975	H273019	H273061	H273104	H273147
H272458	H272805	H272848	H272891	H272933	H272976	H273020	H273062	H273105	H273148
H272460	H272806	H272849	H272892	H272934	H272977	H273021	H273063	H273106	H273149
H272461	H272807	H272850	H272893	H272935	H272978	H273022	H273064	H273107	H273150
H272462	H272808	H272851	H272894	H272936	H272979	H273023	H273065	H273108	H273151
H272463	H272809	H272852	H272895	H272937	H272980	H273024	H273066	H273109	H273152
H272464	H272810	H272853	H272896	H272938	H272981	H273025	H273067	H273110	H273153
H272465	H272811	H272854	H272897	H272939	H272982	H273026	H273068	H273111	H273155
H272466	H272812	H272855	H272898	H272940	H272983	H273027	H273069	H273112	H273156

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H273157	H273200	H290118	H290182	H290225	H290269	H290316	H290358	H290400	H290518
H273158	H273201	H290119	H290183	H290226	H290271	H290317	H290359	H290401	H290519
H273159	H273202	H290121	H290185	H290227	H290272	H290318	H290360	H290402	H290520
H273160	H273203	H290122	H290186	H290228	H290273	H290319	H290361	H290403	H290521
H273162	H273204	H290123	H290187	H290229	H290274	H290320	H290362	H290404	H290522
H273163	H273205	H290125	H290188	H290230	H290275	H290321	H290363	H290405	H290523
H273164	H273206	H290128	H290189	H290231	H290276	H290322	H290364	H290406	H290524
H273165	H273208	H290130	H290190	H290232	H290277	H290323	H290365	H290407	H290525
H273166	H273209	H290131	H290191	H290233	H290278	H290324	H290366	H290408	H290526
H273167	H273210	H290132	H290192	H290234	H290279	H290325	H290367	H290409	H290527
H273168	H273528	H290135	H290193	H290235	H290280	H290326	H290368	H290410	H290528
H273169	H273547	H290137	H290194	H290236	H290281	H290327	H290369	H290411	H290529
H273170	H273578	H290138	H290195	H290237	H290282	H290328	H290370	H290412	H290530
H273171	H273711	H290139	H290196	H290239	H290283	H290329	H290371	H290413	H290531
H273172	H273929	H290141	H290197	H290240	H290284	H290330	H290372	H290414	H290532
H273173	H290001	H290142	H290198	H290241	H290285	H290331	H290373	H290415	H290533
H273174	H290002	H290143	H290199	H290242	H290286	H290332	H290374	H290416	H290534
H273175	H290003	H290144	H290200	H290243	H290287	H290333	H290375	H290417	H290535
H273176	H290012	H290145	H290201	H290244	H290288	H290334	H290376	H290422	H290536
H273177	H290016	H290146	H290202	H290245	H290289	H290335	H290377	H290423	H290537
H273178	H290017	H290149	H290203	H290246	H290290	H290336	H290378	H290424	H290538
H273179	H290021	H290151	H290204	H290247	H290291	H290337	H290379	H290425	H290539
H273180	H290026	H290152	H290205	H290248	H290292	H290338	H290380	H290426	H290540
H273181	H290027	H290154	H290206	H290249	H290293	H290339	H290381	H290427	H290541
H273182	H290030	H290155	H290207	H290250	H290295	H290340	H290382	H290500	H290542
H273183	H290031	H290156	H290208	H290251	H290296	H290341	H290383	H290501	H290543
H273184	H290032	H290157	H290209	H290253	H290297	H290342	H290384	H290502	H290544
H273185	H290033	H290158	H290210	H290254	H290299	H290343	H290385	H290503	H290545
H273186	H290034	H290160	H290211	H290255	H290301	H290344	H290386	H290504	H290546
H273187	H290100	H290161	H290212	H290256	H290302	H290345	H290387	H290505	H290547
H273188	H290103	H290162	H290213	H290257	H290304	H290346	H290388	H290506	H290548
H273189	H290104	H290164	H290214	H290258	H290305	H290347	H290389	H290507	H290549
H273190	H290105	H290165	H290215	H290259	H290306	H290348	H290390	H290508	H290550
H273191	H290106	H290166	H290216	H290260	H290307	H290349	H290391	H290509	H290551
H273192	H290108	H290168	H290217	H290261	H290308	H290350	H290392	H290510	H290552
H273193	H290109	H290171	H290218	H290262	H290309	H290351	H290393	H290511	H290553
H273194	H290110	H290173	H290219	H290263	H290310	H290352	H290394	H290512	H290554
H273195	H290111	H290175	H290220	H290264	H290311	H290353	H290395	H290513	H290555
H273196	H290113	H290176	H290221	H290265	H290312	H290354	H290396	H290514	H290556
H273197	H290114	H290177	H290222	H290266	H290313	H290355	H290397	H290515	H290557
H273198	H290116	H290180	H290223	H290267	H290314	H290356	H290398	H290516	H290558
H273199	H290117	H290181	H290224	H290268	H290315	H290357	H290399	H290517	H290559

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H290560	H291040	H291082	H291126	H291168	H291210	H291252	H293317	H293360	H293403
H290561	H291041	H291083	H291127	H291169	H291211	H291253	H293318	H293361	H293404
H290600	H291042	H291084	H291128	H291170	H291212	H291254	H293319	H293362	H293405
H291001	H291043	H291085	H291129	H291171	H291213	H291255	H293320	H293363	H293406
H291002	H291044	H291086	H291130	H291172	H291214	H291256	H293321	H293364	H293407
H291003	H291045	H291087	H291131	H291173	H291215	H291257	H293322	H293365	H293408
H291004	H291046	H291088	H291132	H291174	H291216	H291258	H293323	H293366	H293409
H291005	H291047	H291089	H291133	H291175	H291217	H291259	H293324	H293367	H293410
H291006	H291048	H291090	H291134	H291176	H291218	H291260	H293325	H293368	H293411
H291007	H291049	H291091	H291135	H291177	H291219	H291261	H293326	H293369	H293412
H291008	H291050	H291092	H291136	H291178	H291220	H291262	H293327	H293370	H293413
H291009	H291051	H291093	H291137	H291179	H291221	H291263	H293328	H293371	H293414
H291010	H291052	H291094	H291138	H291180	H291222	H291264	H293329	H293372	H293415
H291011	H291053	H291095	H291139	H291181	H291223	H291265	H293330	H293373	H293416
H291012	H291054	H291096	H291140	H291182	H291224	H291266	H293331	H293374	H293417
H291013	H291055	H291097	H291141	H291183	H291225	H291267	H293332	H293375	H293418
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H291016	H291058	H291101	H291144	H291186	H291228	H291270	H293335	H293378	H293421
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H291038	H291080	H291124	H291166	H291208	H291250	H293315	H293358	H293401	H293443
H291039	H291081	H291125	H291167	H291209	H291251	H293316	H293359	H293402	H293444

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