

# Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 19-212

# Issued: 12 December 2019

Note: Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

# **Design Approval Holder's Name:**

Type/Model designation(s):

CFM INTERNATIONAL S.A.

CFM56-5B, CFM56-5C and CFM56-7B engines

Effective Date: [TBD – standard: 14 days after AD issue date]

TCDS Number(s): EASA.E.003 and EASA.E.004

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2019-0150 dated 28 June 2019.

# ATA 72 – Engine – Rotating Air High Pressure Turbine Front Seal – Replacement

# Manufacturer(s):

SAFRAN Aircraft Engines, formerly SNECMA (France); General Electric Aircraft Engines (United States)

# **Applicability:**

CFM56-5B1, CFM56-5B2, CFM56-5B4, CFM56-5B5, CFM56-5B6, CFM56-5B7, CFM56-5B1/P, CFM56-5B2/P, CFM56-5B3/P, CFM56-5B4/P, CFM56-5B5/P, CFM56-5B6/P, CFM56-5B7/P, CFM56-5B8/P, CFM56-5B9/P, CFM56-5B3/P1, CFM56-5B4/P1, CFM56-5B1/2P, CFM56-5B2/2P, CFM56-5B3/2P, CFM56-5B4/2P, CFM56-5B6/2P, CFM56-5B9/2P, CFM56-5B3/2P1 and CFM56-5B4/2P1 engines, all serial numbers (s/n);

CFM56-5C2, CFM56-5C2/4, CFM56-5C2/F, CFM56-5C2/F4, CFM56-5C2/G, CFM56-5C2/G4, CFM56-5C2/P, CFM56-5C3/F, CFM56-5C3/F4, CFM56-5C3/G, CFM56-5C3/G4, CFM56-5C3/P, CFM56-5C4, CFM56-5C4/1, CFM56-5C4/P and CFM56-5C4/1P engines, all s/n; and

CFM56-7B20, CFM56-7B22, CFM56-7B24, CFM56-7B26, CFM56-7B27, CFM56-7B22/B1, CFM56-7B24/B1, CFM56-7B26/B1, CFM56-7B26/B2, CFM56-7B27/B1, CFM56-7B27/B3, CFM56-7B20/2, CFM56-7B22/2, CFM56-7B24/2, CFM56-7B26/2, CFM56-7B27/2 and CFM56-7B27A engines, all s/n.



These engines are known to be installed on, but not limited to, Airbus A318, A319, A320, A321 and A340 aeroplanes, and Boeing 737-600, 737-700, 737-800 and 737-900 aeroplanes.

# **Definitions:**

For the purpose of this AD, the following definitions apply:

**The applicable S/B**: CFM International CFM56-5B Service Bulletin (S/B) 72-1074, CFM56-5C S/B 72-0794 and CFM56-7B S/B 72-1042, as applicable.

Affected part: Rotating air high pressure turbine (HPT) front seals, having part number (P/N) 1795M36P01 or P/N 1795M36P02, and having a s/n as identified in Appendix 1 (P/N 1795M36P01) or Appendix 2 (P/N 1795M36P02) of this AD, except those for which one of the conditions (a) or (b) below applies:

- (a) The HPT front seal is new (not previously installed on an engine), or
- (b) The HPT front seal has never been removed from its original HPT disk and re-installed onto a different HPT disk.

Serviceable part: Any rotating air HPT front seal that is not an affected part.

## Groups:

Group 1 engines are those that have an affected part installed.

- Subgroup 1A are: CFM56-5B and CFM56-7B engines, having an affected part that, following re-installation, has never been operated on a CFM56-5C engine.
- Subgroup 1B are CFM56-5B and CFM56-7B engines, having an affected part that, following re-installation, has been operated at any time on a CFM56-5C engine.
- Subgroup 1C are CFM56-5C engines.

Group 2 engines are those that do not have an affected part installed.

**Re-installation**: For an affected part, first in-service re-installation on an HPT disc other than the HPT disc on which that affected part was originally installed in production.

#### Reason:

Occurrences have been reported of finding cracked rotating air HPT front seals during in-shop inspections. Subsequent investigation determined that certain rotating air HPT front seals, if removed from an HPT disc and re-installed on a different HPT disc, may be susceptible to similar cracks.

This condition, if not detected and corrected, could lead to uncontained engine failure, possibly resulting in damage to the aeroplane, with consequent reduced control of the aeroplane.

To address this potential unsafe condition, CFM International issued the applicable S/B, providing instructions to replace the affected parts. Consequently, EASA issued AD 2019-0146 to require removal from service of the affected parts and to prohibit re-installation thereof.

After that AD was issued, prompted by operator comments, EASA issued AD 2019-0150, retaining the requirements of EASA AD 2019-0146, which was superseded, including clarifications, reference



to the applicable Engine Shop Manual for the existing life limits (not to be exceeded) and providing a full list of the affected serial numbers (Appendices 1 and 2).

Prompted by further operator comments, this AD retains the requirements of EASA AD 2019-0150, which is superseded, and introduces reduced life limits for affected parts which have been previously installed on different engine models. This AD also excludes from the definition of "affected part" certain parts, for which an installation requirement is added.

# **Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

## Part Replacement:

(1) For Group 1 engines: Within the compliance time as defined in Table 1 of this AD, as applicable, but without exceeding the applicable life limit as specified in Chapter 05 of the applicable Engine Shop Manual, replace the affected part with a serviceable part, as defined in this AD, in accordance with the instructions of the applicable S/B.

Engine(s) (all models)	Compliance time (A, B, C or D, whichever occurs later, as applicable)
	A: Within 6 500 engine cycles (EC) since re-installation
Subgroup 1A	<ul> <li>B: Within 500 EC after 05 July 2019 [the effective date of EASA AD 2019- 0150], but not exceeding 7 000 EC since re-installation</li> </ul>
	C: Within 50 EC after 05 July 2019 [the effective date of EASA AD 2019- 0150]
	A: Within 4 000 EC since re-installation
	<ul> <li>B: Within 250 EC after 05 July 2019 [the effective date of EASA AD 2019- 0150], but not exceeding 4 250 EC since re-installation</li> </ul>
Subgroup 1B	C: Within 1 500 EC since last seal piece-part fluorescent penetrant inspection
	<b>D:</b> Within 25 EC after the effective date of this AD, but not exceeding the compliance time applicable for Subgroup 1A engines
	A: Within 4 000 EC since re-installation
	<ul> <li>B: Within 250 EC after 05 July 2019 [the effective date of EASA AD 2019- 0150], but not exceeding 4 250 EC since re-installation</li> </ul>
Subgroup 1C	C: Within 1 500 EC since last seal piece-part fluorescent penetrant inspection
	D: Within 25 EC after 05 July 2019 [the effective date of EASA AD 2019- 0150]

#### Table 1 – Affected Parts Replacement

#### Limitations:

(2) From the effective date of this AD, do not operate an aeroplane having two Subgroup 1A engines installed, or two Subgroup 1B engines, or a combination thereof, equipped with an



affected part having accumulated 6 500 EC (Subgroup 1A) or more, or 4 000 EC (Subgroup 1B) or more since re-installation.

(3) From the effective date of this AD, do not operate an aeroplane having two or more Subgroup 1C engines installed, equipped with an affected part having accumulated 4 000 EC or more since re-installation.

# Part(s) Installation:

(4) For Group 1 and Group 2 engines: From 05 July 2019 [the effective date of EASA AD 2019-0150], do not install (see Note 1 of this AD) an affected part on any engine.

Note 1: The following actions, accomplished during a single maintenance visit, are not considered as 'installation' as specified in paragraph (4) of this AD: Removing an affected part from its HPT disc and re-installing that affected part on the same disc on the same engine; removing an HPT disc equipped with an affected part and re-installing that disc, with that affected part, on the same engine.

(5) For Group 1 and Group 2 engines: From the effective date of this AD, do not re-install a serviceable part, having P/N 1795M36P01 or P/N 1795M36P02, and having a s/n as identified in Appendix 1 (P/N 1795M36P01) or Appendix 2 (P/N 1795M36P02) of this AD, on any HPT disk different from the HPT disk on which that serviceable part was previously installed.

## **Ref. Publications:**

CFM International S.A. CFM56-5B S/B 72-1074 original issue dated 27 July 2018, or Revision 01 dated 05 December 2018, or Revision 02 dated 06 November 2019.

CFM International S.A. CFM56-5C S/B 72-0794 original issue dated 14 September 2018, or Revision 01 dated 02 January 2019, or Revision 02 dated 06 November 2019.

CFM International S.A. CFM56-7B S/B 72-1042 original issue dated 27 July 2018, or Revision 01 dated 02 January 2019, or Revision 02 dated 06 November 2019.

The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

#### **Remarks:**

- 1. This Proposed AD will be closed for consultation on 26 December 2019.
- 2. Enquiries regarding this PAD should be referred to the EASA Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: <u>ADs@easa.europa.eu</u>.
- Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, can be reported to the <u>EU aviation</u> <u>safety reporting system</u>.



For any question concerning the technical content of the requirements in this PAD, please contact: CFM International S.A., Customer Support Centre, Telephone: +33 1 64 14 88 66, Fax: +33 1 64 79 85 55, E-mail: <u>cfm.csc@safrangroup.com</u>; or

CFM Inc. Aviation Operations Centre, Telephone: +1 513-552-3272, or +1 877-432-3272, Fax: +1 877-432-3329, E-mail: <u>geae.aoc@ge.com</u>, or <u>aviation.fleetsupport@ge.com</u>.



GWNDN949	GWNDS079	GWNKC901	GWNKE207	GWNKF192	GWNKG219
GWNDP018	GWNDS080	GWNKC902	GWNKE320	GWNKF193	GWNKG220
GWNDP019	GWNDS081	GWNKC903	GWNKE321	GWNKF194	GWNKG397
GWNDP020	GWNDS380	GWNKD506	GWNKE322	GWNKF288	GWNKG398
GWNDP021	GWNDS381	GWNKD507	GWNKE598	GWNKF289	GWNKG399
GWNDP901	GWNDS382	GWNKD508	GWNKE599	GWNKF314	GWNKG400
GWNDP902	GWNDS383	GWNKD723	GWNKE600	GWNKF315	GWNKG686
GWNDP903	GWNDS384	GWNKD724	GWNKE601	GWNKF316	GWNKG687
GWNDP904	GWNDS385	GWNKD725	GWNKE602	GWNKF317	GWNKG688
GWNDP905	GWNDS387	GWNKD726	GWNKE603	GWNKF676	GWNKG689
GWNDP906	GWNDS388	GWNKD727	GWNKE604	GWNKF677	GWNKG814
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GWNDR152	GWNDS653	GWNKD796	GWNKE841	GWNKF679	GWNKG817
GWNDR402	GWNDS654	GWNKD797	GWNKE842	GWNKF680	GWNKH129
GWNDR403	GWNDS874	GWNKD798	GWNKE893	GWNKF681	GWNKH130
GWNDR404	GWNDS875	GWNKD824	GWNKE894	GWNKF682	GWNKH131
GWNDR405	GWNDS876	GWNKD825	GWNKE895	GWNKF683	GWNKH132
GWNDR406	GWNDS877	GWNKD826	GWNKE897	GWNKF684	GWNKH133
GWNDR529	GWNDS935	GWNKD827	GWNKF015	GWNKG073	GWNKH395
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GWNDR532	GWNDT152	GWNKE046	GWNKF107	GWNKG076	GWNKH526
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GWNDR960	GWNKC175	GWNKE205	GWNKF112	GWNKG217	GWNKH531
GWNDS078	GWNKC900	GWNKE206	GWNKF113	GWNKG218	



GWN000CE	GWN0028J	GWN0037L	GWN006MC	GWN006P2	GWN009P7
GWN000CF	GWN0028K	GWN0037M	GWN006MD	GWN006P3	GWN009P8
GWN000CG	GWN0028L	GWN0041F	GWN006ME	GWN006P4	GWN009P9
GWN000CH	GWN0028M	GWN0041G	GWN006MF	GWN006P5	GWN009PA
GWN000CJ	GWN0028N	GWN0041H	GWN006MG	GWN0073G	GWN009PC
GWN000CK	GWN0028R	GWN0041J	GWN006MH	GWN00757	GWN009PD
GWN000CL	GWN0028T	GWN0041K	GWN006MJ	GWN008EC	GWN009PE
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GWN000CN	GWN0028W	GWN0041M	GWN006ML	GWN008EE	GWN009PG
GWN000CP	GWN0028Y	GWN0041N	GWN006MM	GWN008EF	GWN009PH
GWN000CR	GWN00290	GWN0041P	GWN006MN	GWN008EG	GWN009PJ
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GWN000CV	GWN002WE	GWN0041T	GWN006MR	GWN008EJ	GWN009PL
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GWN001G7	GWN002WV	GWN004WN	GWN006N7	GWN008F0	<b>GWN00AVE</b>
GWN001G8	GWN002WW	GWN004WP	GWN006N8	GWN00920	<b>GWN00AVF</b>
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GWN001GA	GWN002Y0	GWN004WT	GWN006NA	GWN00922	<b>GWN00CTK</b>
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GWN001GF	GWN00371	GWN0052L	GWN006NF	GWN00926	<b>GWN00CTP</b>
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GWN001GK	GWN00376	GWN0052R	GWN006NK	GWN0092A	GWN00CTW
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GWN001GP	GWN0037A	GWN00530	GWN006NP	GWN0092F	GWN00CV2
GWN00289	GWN0037C	GWN00531	GWN006NR	GWN0092G	GWN00CV3
GWN0028A	GWN0037D	GWN00532	GWN006NT	GWN0092H	GWN00CV4
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GWN00E26	GWN00G1Y	GWN00HDK	GWN00LDN	GWN00MHA	GWN00P53
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GWN00E29	GWN00G21	GWN00HDM	GWN00LDR	GWN00N9C	GWN00P55
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GWN00FDD	GWN00HD9	GWN00LDD	GWN00MH0	GWN00P4P	GWN00PPL
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GWN00RA8	GWN00VL4	<b>GWN00YEV</b>	GWN010MR	GWN01270	GWN01480
GWN00RA9	GWN00VL5	<b>GWN00YEW</b>	GWN01181	GWN01271	GWN01481
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<b>GWN00RAC</b>	GWN00VL7	GWN00YF0	GWN01183	GWN01273	GWN0148N
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GWN03F3T	GWN03HWH	GWN03KW4	GWN03N7A	GWN03R80	GWN03WFJ
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GWN0939M	GWN096CA	GWNDS943	GWNDY401	GWNGA787	GWNGB731
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GWNSC062	GWNSC245	GWNSC439	GWNSC515	GWNSC721	GWNSC951
GWNSC063	GWNSC246	GWNSC440	GWNSC516	GWNSC836	GWNSC952
GWNSC064	GWNSC247	GWNSC441	GWNSC517	GWNSC837	GWNSC953
GWNSC065	GWNSC248	GWNSC442	GWNSC518	GWNSC838	GWNSC954
GWNSC066	GWNSC249	GWNSC443	GWNSC561	GWNSC839	GWNSD209
GWNSC067	GWNSC250	GWNSC444	GWNSC562	GWNSC840	GWNSD210
GWNSC068	GWNSC252	GWNSC445	GWNSC563	GWNSC841	GWNSD211
GWNSC069	GWNSC253	GWNSC446	GWNSC564	GWNSC842	GWNSD212
GWNSC070	GWNSC254	GWNSC447	GWNSC565	GWNSC843	GWNSD213
GWNSC071	GWNSC256	GWNSC448	GWNSC566	GWNSC844	GWNSD214
GWNSC072	GWNSC257	GWNSC449	GWNSC567	GWNSC845	GWNSD215
GWNSC073	GWNSC258	GWNSC450	GWNSC568	GWNSC846	GWNSD216
GWNSC074	GWNSC259	GWNSC451	GWNSC569	GWNSC847	GWNSD217
GWNSC075	GWNSC260	GWNSC452	GWNSC570	GWNSC848	GWNSD218
GWNSC076	GWNSC261	GWNSC453	GWNSC571	GWNSC849	GWNSD219



GWNSD220	GWNSD290	GWNSD525	GWNSD957	GWNSE005	GWNSE314
GWNSD221	GWNSD291	GWNSD526	GWNSD958	GWNSE006	GWNSE315
GWNSD222	GWNSD309	GWNSD527	GWNSD959	GWNSE136	GWNSE316
GWNSD223	GWNSD310	GWNSD528	GWNSD960	GWNSE137	GWNSE317
GWNSD224	GWNSD311	GWNSD529	GWNSD961	GWNSE138	GWNSE318
GWNSD225	GWNSD312	GWNSD530	GWNSD962	GWNSE139	GWNSE319
GWNSD226	GWNSD313	GWNSD531	GWNSD963	GWNSE140	GWNSE320
GWNSD227	GWNSD314	GWNSD532	GWNSD964	GWNSE141	GWNSE321
GWNSD228	GWNSD315	GWNSD533	GWNSD965	GWNSE142	GWNSE322
GWNSD229	GWNSD316	GWNSD534	GWNSD966	GWNSE143	GWNSE323
GWNSD230	GWNSD317	GWNSD535	GWNSD967	GWNSE144	GWNSE324
GWNSD231	GWNSD318	GWNSD536	GWNSD968	GWNSE145	GWNSE325
GWNSD233	GWNSD319	GWNSD537	GWNSD969	GWNSE146	GWNSE326
GWNSD234	GWNSD320	GWNSD538	GWNSD970	GWNSE147	GWNSE327
GWNSD257	GWNSD321	GWNSD741	GWNSD971	GWNSE148	GWNSE328
GWNSD258	GWNSD322	GWNSD742	GWNSD972	GWNSE149	GWNSE329
GWNSD259	GWNSD323	GWNSD743	GWNSD973	GWNSE150	GWNSE330
GWNSD260	GWNSD324	GWNSD744	GWNSD974	GWNSE151	GWNSE395
GWNSD261	GWNSD343	GWNSD745	GWNSD975	GWNSE152	GWNSE419
GWNSD262	GWNSD344	GWNSD746	GWNSD976	GWNSE284	GWNSE420
GWNSD263	GWNSD346	GWNSD747	GWNSD977	GWNSE285	GWNSE421
GWNSD264	GWNSD490	GWNSD748	GWNSD978	GWNSE286	GWNSE422
GWNSD265	GWNSD491	GWNSD749	GWNSD979	GWNSE287	GWNSE423
GWNSD266	GWNSD492	GWNSD750	GWNSD980	GWNSE288	GWNSE424
GWNSD267	GWNSD494	GWNSD751	GWNSD981	GWNSE289	GWNSE425
GWNSD268	GWNSD495	GWNSD752	GWNSD982	GWNSE290	GWNSE426
GWNSD269	GWNSD496	GWNSD753	GWNSD983	GWNSE291	GWNSE427
GWNSD270	GWNSD497	GWNSD755	GWNSD984	GWNSE292	GWNSE428
GWNSD271	GWNSD498	GWNSD756	GWNSD985	GWNSE294	GWNSE429
GWNSD272	GWNSD499	GWNSD757	GWNSD986	GWNSE295	GWNSE430
GWNSD273	GWNSD500	GWNSD758	GWNSD987	GWNSE296	GWNSE431
GWNSD274	GWNSD501	GWNSD759	GWNSD988	GWNSE297	GWNSE432
GWNSD276	GWNSD502	GWNSD760	GWNSD989	GWNSE298	GWNSE433
GWNSD277	GWNSD503	GWNSD761	GWNSD990	GWNSE299	GWNSE434
GWNSD278	GWNSD504	GWNSD770	GWNSD991	GWNSE300	GWNSE435
GWNSD279	GWNSD505	GWNSD946	GWNSD992	GWNSE301	GWNSE436
GWNSD280	GWNSD506	GWNSD947	GWNSD993	GWNSE302	GWNSE437
GWNSD281	GWNSD507	GWNSD948	GWNSD994	GWNSE303	GWNSE438
GWNSD282	GWNSD508	GWNSD949	GWNSD995	GWNSE304	GWNSE439
GWNSD283	GWNSD509	GWNSD950	GWNSD996	GWNSE305	GWNSE440
GWNSD284	GWNSD519	GWNSD951	GWNSD997	GWNSE306	GWNSE443
GWNSD285	GWNSD520	GWNSD952	GWNSD998	GWNSE307	GWNSE445
GWNSD286	GWNSD521	GWNSD953	GWNSE001	GWNSE308	GWNSE446
GWNSD287	GWNSD522	GWNSD954	GWNSE002	GWNSE309	GWNSE447
GWNSD288	GWNSD523	GWNSD955	GWNSE003	GWNSE310	GWNSE448
GWNSD289	GWNSD524	GWNSD956	GWNSE004	GWNSE312	GWNSE449



GWNSE450	GWNSE543	GWNSE759	GWNSE781	GWNSE931	GWNSE953
GWNSE522	GWNSE544	GWNSE760	GWNSE782	GWNSE932	GWNSE954
GWNSE523	GWNSE545	GWNSE761	GWNSE783	GWNSE933	GWNSE955
GWNSE524	GWNSE546	GWNSE762	GWNSE784	GWNSE934	GWNSE956
GWNSE525	GWNSE547	GWNSE763	GWNSE785	GWNSE935	GWNSE957
GWNSE526	GWNSE548	GWNSE764	GWNSE786	GWNSE936	GWNSE958
GWNSE527	GWNSE549	GWNSE765	GWNSE787	GWNSE937	GWNSE959
GWNSE528	GWNSE550	GWNSE766	GWNSE788	GWNSE938	GWNSE960
GWNSE529	GWNSE551	GWNSE767	GWNSE887	GWNSE939	GWNSE961
GWNSE530	GWNSE552	GWNSE768	GWNSE888	GWNSE940	GWNSE962
GWNSE531	GWNSE553	GWNSE769	GWNSE889	GWNSE941	GWNSE963
GWNSE532	GWNSE554	GWNSE770	GWNSE890	GWNSE942	GWNSE964
GWNSE533	GWNSE555	GWNSE771	GWNSE891	GWNSE943	GWNSE965
GWNSE534	GWNSE750	GWNSE772	GWNSE892	GWNSE944	GWNSE966
GWNSE535	GWNSE751	GWNSE773	GWNSE893	GWNSE945	GWNSE967
GWNSE536	GWNSE752	GWNSE774	GWNSE894	GWNSE946	GWNSE968
GWNSE537	GWNSE753	GWNSE775	GWNSE896	GWNSE947	GWNSE969
GWNSE538	GWNSE754	GWNSE776	GWNSE897	GWNSE948	
GWNSE539	GWNSE755	GWNSE777	GWNSE898	GWNSE949	
GWNSE540	GWNSE756	GWNSE778	GWNSE899	GWNSE950	
GWNSE541	GWNSE757	GWNSE779	GWNSE929	GWNSE951	
GWNSE542	GWNSE758	GWNSE780	GWNSE930	GWNSE952	

