



Deutscher Fallschirmsportverband (DFV) e.V.
Deutscher Aero-Club (DAeC) e.V. Luftsportgerätebüro
Verband unabhängiger Prüfer von Luftsportgerät e.V.

An alle Vereine/Schulen/ Fallschirmtechniker Fallschirmwarte

SICHERHEITSMITTEILUNG für AAD

herausgegeben: 11.11.2015

Nummer: 05/20115

Bezug: SERVICE BULLETIN PSB 01 - 15 vom 09.11.15

Betroffene Muster: alle VIGIL Cutter, produziert März - Juli 2015

Status: **Verpflichtend -> siehe Fristen**

Grund: Es wurde bei einem abgeschnittenen Loop festgestellt, das sich im Inneren des Cutter ein Grat befand, der den Loop vermutlich beschädigt hat. Eine Inspektion von anderen Cuttern zeigte eine begrenzte Anzahl die möglicherweise Ecken und Kanten im Inneren aufweisen.

Maßnahmen: Alle betroffenen Cutter aus dem Herstellungszeitraum (3-15, 4-15, 5-15, 6-15 und 7-15) müssen zu einer mikroskopischen Untersuchung zum Hersteller geschickt werden. Egal ob Sie in einem Gurtzeug eingebaut sind oder nicht! Betroffen sind davon auch Ersatzcutter und Cutter die nach einer Aktivierung eingebaut worden.
Das Herstellungsdatum ist an Hand der Hologramm-Aufkleber zu erkennen.

Fristen bis zur Durchführung sind:

1. Cutter **über** dem Hilfsschirm:
-> Verpflichtend vor dem nächsten Sprung
2. Cutter **nicht über** dem Hilfsschirm:
-> beim nächsten Reservepack
3. Nicht verbaute Ersatzcutter
-> Verpflichtend und dürfen erst nach Überprüfung verbaut werden

Die Loops sind bei den betroffenen Cuttern zwingend zu wechseln!
Es ist nach den **Schritten 1-4 des Bulletins** zu verfahren.
Die Prüfung und evtl. Installation des neuen Cutters sind auf der
Begleitkarte des Vigil folgender Hinweis als Bestätigung einzutragen :

Datum, Ort, Wer, „Erfüllt die PSB 01-2015 “ Unterschrift

Bemerkungen: Advanced Aerospace Designs erwartet nicht, das jeder Cutter davon
betroffen ist, möchte aber trotzdem im Interesse der Sicherheit eine
Überprüfung der aufgelisteten Cutter vornehmen.
Der Hersteller schickt die geprüften Cutter mit einer blauen Markierung
an der Oberseite des Cutters und einer Prüfkarte zurück. Durch die
Markierung kann nachvollzogen werden, ob der Cutter kontrolliert wurde.
In der Anlage findet Ihr die originale Mitteilung.

Verteiler: Techniker, Warte, Händler, Vereine, Sprungzentren.

Dresden , den 11.11.2015

Ralf Homuth
Referat Technik DFV

Ralf Homuth
Geschäftsstellenleiter VuPL

PRODUCT SERVICE BULLETIN

Issue Date: 09 November 2015

Bulletin Number: PSB 01-2015

**Subject: Vigil Cutters manufactured March 2015 – July 2015
(03/2015 – 07/2015)**

Compliance: Mandatory (See Compliance section for details.)

Identification:

All Vigil AAD cutters with Date of Manufacture from 01 March 2015 through 31 July 2015. (3-15, 4-15, 5-15, 6-15 and 7-15) (mm-yy), whether or not the cutter is actually installed in a harness-container AAD system.



All affected serial numbers of Vigil units and cutter hologram numbers can be found in List A (Cutters mounted on Vigil AADs at the factory or in the field) or List B (Spare part cutters), attached to this PSB.

Background:

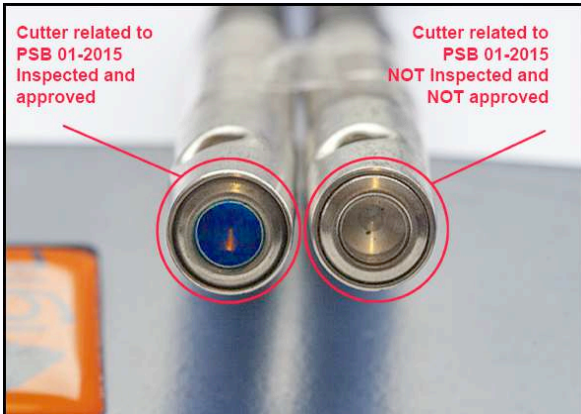
Upon investigating a report of a severed closing loop, it was determined that a rough edge inside the cutter abraded the loop fabric, causing it to fail.

Inspection of other cutters revealed a limited range of cutters which could potentially have rough edges inside. Subject cutters appear to be more likely to abrade the closing loop in equipment where the cutter is placed above the pilot chute. We do not expect to find that every cutter in this range of cutters has an issue, but in the interest of safety we are requiring that every cutter in this range be inspected.

A.A.D. nv/sa has determined that all cutters identified as having been produced during the specified date of manufacture range (3-15, 4-15, 5-15, 6-15 and 7-15) (mm-yy), whether or not they are installed in a harness-container-AAD system, must be recalled for in-house microscopic inspection at A.A.D. nv/sa, and that all reserve container closing loops with which a subject cutter was used must be replaced.

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After inspection of the returned subject cutter by A.A.D. nv/sa, a blue paint dot will be placed on top of the cutter to indicate that the cutter has been inspected and approved by A.A.D. nv/sa. A cutter will be returned, which will be accompanied by a new service card, dated and signed with a special stamp, confirming the inspection of the cutter.



Vigil® AAD Service Card

This spare part has been tested in accordance with Advanced Aerospace Designs manufacturing specifications valid on the Date Of Manufacture (D.O.M.). To validate your customer's warranty, please fill in and fax us a copy of this card: +32(2) 736 06 27

Battery D.O.M.: _____

Cutter D.O.M.: 06/15

Controller VER.: _____

Other: _____

Testing Location: Brussels, Belgium

Tested By: Roger

QC Nr: 16058

Mounted on the Unit: # 44889 / QC Nr: CDST

By: Rigger Name

Rigger Nr: 1234

Or VASC® Nr: _____

Date: 31 October 15

Signature: [Signature]

* VASC: Vigil Approved Service Center

Front side Service Card

your cutter has been inspected and approved according to PSB 01-2015



A.A.D. Belgium
Date: xx Nov, xxxx

Randy Randerson

Back side Service Card

A.A.D. nv/sa has developed procedures to accomplish the cutter recall and to minimize the inconvenience to the users of parachute equipment containing a subject cutter.

Compliance Procedure:

Step 1: Identify your cutter

- If your original cutter has never been replaced:



The hologram number (Gold) on your cutter is the same as the hologram number (Gold) mentioned on the Certificate Card that was delivered to you together with your Vigil assembly. If you can't retrieve your Certificate Card you can check the back of your original Vigil control unit, if accessible (harness-container dependent). The hologram number (Gold) on the back of the original control unit is the same as the one on your original cutter. If you are unable to check the back of the original control unit, you can verify the serial number of your Vigil using the info menu during start up of your Vigil. For more information on accessing the start up menu, if necessary, please consult your manual or our website (www.vigil.aero).

- If your cutter has been replaced after March 1st 2015 (i.e. after an activation):



The hologram number (Silver/Red) on your cutter is the same as the hologram number (Silver/Red) on your Service Card that was delivered to you together with your replacement cutter. If you cannot retrieve your Service Card you will have no choice but to visually check the hologram placed on your cutter.

- If you have a cutter in stock that was purchased or received after March 2015:

Visually check the hologram placed on the cutter.

Step 2:

- If your cutter's hologram number **does not** appear on List A or List B from this PSB 01-2015, no further action is necessary.

- If your cutter's hologram number **does** appear in List A or List B from this PSB 01-2015, you should proceed to step 3.

Step 3:

- Please visit www.vigil.aero/psb012015 , and choose the appropriate procedure, according to your location.

Step 4:

- After receipt and installation of a replacement cutter in a harness-container-AAD system, the rigger must enter on the packing data card: "Complies with PSB 01-2015." This should be entered in the section that lists the AAD serial number.

Compliance Time Limits:

If it is determined that the cutter manufacturing date is within the affected cutter range, the cutter MUST be returned to A.A.D. nv/sa to be inspected, whether or not your inspection reveals damage to the closing loop. To return the cutter, follow the instructions above.

Time for Compliance:

(1) For equipment in which the cutter is located above the pilot chute, compliance is MANDATORY, PRIOR TO THE NEXT JUMP.

(2) For equipment in which the cutter is NOT located above the pilot chute, compliance is MANDATORY, AT THE TIME OF THE NEXT RESERVE REPACK.

(3) For cutters not installed in a harness-container-AAD system and which are on List B, compliance is MANDATORY, AND NONE SHOULD BE INSTALLED IN ANY SYSTEM PRIOR TO COMPLIANCE WITH THIS SERVICE BULLETIN.

If there are any questions about the applicability, subject matter or procedures contained in this service bulletin, contact A.A.D. nv/sa or Vigil America, Inc.

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Distribution of this Advisory Product Service Bulletin shall include, but is not limited to:

- All identified owners of affected Vigil AAD units/cutters.
- All AAD dealers.
- Parachute Industry Association.
- All identified parachuting publications.
- All identified parachuting Federations and Associations
- All National Aero Clubs, Parachuting Section.
- IPC Technical Committee.

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
14527	17588	43789	CCOE	44131	CCPR	44177	CCRK
34660	17613	43790	CCOF	44132	CCPS	44178	CCRL
37692	17550	43791	CCOG	44133	CCPT	44179	CCRM
37747	17594	44090	CCWF	44134	CCQM	44180	CCRN
37774	ARLD	44091	CCWG	44135	CCPV	44181	CCRO
37777	17554	44092	CCWH	44136	CCPW	44182	CCRP
37778	17559	44093	CCWI	44137	CCPX	44183	CCRQ
37779	17560	44095	CCOH	44138	CCPY	44184	CCRR
37780	17602	44096	CCOI	44139	CCPZ	44185	CCRS
37786	17587	44097	CCOJ	44140	CCQA	44186	CCRT
37788	17556	44098	CCOK	44141	CCQB	44187	CCRU
42832	17493	44099	CCOL	44142	CCQC	44188	CCRV
43590	CCFY	44100	CCOM	44143	CCQD	44189	CCRW
43759	CCNC	44101	CCON	44144	CCQE	44190	CCRX
43760	CCQL	44102	CCOO	44145	CCQF	44191	CCRY
43761	CCND	44103	CCOP	44146	CCQG	44192	CCRZ
43762	CCNE	44104	CCOQ	44147	CCQH	44193	CCSA
43763	CCNF	44105	CCOR	44148	CCQI	44194	CCSB
43764	CCNG	44106	CCOS	44149	CCQJ	44195	CCSC
43766	CCNH	44107	CCOT	44150	CCQK	44196	CCSD
43767	CCNI	44108	CCOU	44151	CCQN	44197	CCSE
43768	CCNJ	44110	CCOW	44152	CCQO	44198	CCSF
43769	CCNK	44111	CCOX	44153	CCQP	44199	CCSG
43770	CCNL	44112	CCOY	44154	CCQQ	44200	CCSH
43771	CCNM	44113	CCOZ	44155	CCQR	44201	CCSI
43772	CCNN	44114	CCPA	44157	CCQT	44202	CCSJ
43773	CCNO	44115	CCPB	44158	CCQU	44203	CCSK
43774	CCNP	44116	CCPC	44159	CCQV	44204	CCSL
43775	CCNQ	44117	CCPD	44160	CCQW	44205	CCSM
43776	CCNR	44118	CCPE	44161	CCQX	44206	CCSN
43777	CCNS	44119	CCPF	44162	CCQY	44208	CCSO
43778	CCNT	44120	CCPG	44163	CCQZ	44209	CCSP
43779	CCNU	44121	CCPH	44164	CCRA	44210	CCSQ
43780	CCNV	44122	CCPI	44168	CCRB	44211	CCSR
43781	CCNW	44123	CCPJ	44169	CCRC	44212	CCSS
43782	CCNX	44124	CCPK	44170	CCRD	44213	CCST
43783	CCNY	44125	CCPL	44171	CCRE	44214	CCSU
43784	CCNZ	44126	CCPM	44172	CCRF	44215	CCSV
43785	CCOA	44127	CCPN	44173	CCRG	44216	CCSW
43786	CCOB	44128	CCPO	44174	CCRH	44217	CCSX
43787	CCOC	44129	CCPP	44175	CCRI	44218	CCSY
43788	CCOD	44130	CCPQ	44176	CCRJ	44219	CCSZ



List A (Vigil units with cutters that are affected by PSB 01-2015)

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SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
44220	CCTA	44262	CCUQ	44305	CCWL	44347	CCYB
44221	CCTB	44263	CCUR	44306	CCWM	44348	CCYC
44222	CCTC	44264	CCUS	44307	CCWN	44349	CCYD
44223	CCTD	44266	CCUT	44308	CCWO	44350	CCYE
44224	CCTE	44267	CCUU	44309	CCWP	44351	CCYF
44225	CCTF	44268	CCUV	44310	CCWQ	44352	CCYG
44226	CCTG	44269	CCUW	44311	CCWR	44353	CCYH
44227	CCTH	44270	CCUX	44312	CCWS	44354	CCYI
44228	CCTI	44271	CCUY	44313	CCWT	44355	CCYJ
44229	CCTJ	44272	CCUZ	44314	CCWU	44356	CCYK
44230	CCTK	44273	CCVA	44315	CCWV	44357	CCYL
44231	CCTL	44274	CCVB	44316	CCWW	44358	CCYM
44232	CCTM	44275	CCVC	44317	CCWX	44359	CCYN
44233	CCTN	44276	CCVD	44318	CCWY	44360	CCYO
44234	CCTO	44277	CCVE	44319	CCWZ	44361	CCYP
44235	CCTP	44278	CCVF	44320	CCXA	44362	CCYQ
44236	CCTQ	44279	CCVG	44321	CCXB	44363	CCYR
44237	CCTR	44280	CCVH	44322	CCXC	44364	CCYS
44238	CCTS	44281	CCVI	44323	CCXD	44365	CCYT
44239	CCTT	44282	CCVJ	44324	CCXE	44366	CCYU
44240	CCTU	44283	CCVK	44325	CCXF	44367	CCYV
44241	CCTV	44284	CCVL	44326	CCXG	44368	CCYW
44242	CCTW	44285	CCVM	44327	CCXH	44369	CCYX
44243	CCTX	44286	CCVN	44328	CCXI	44370	CCYY
44244	CCTY	44287	CCVO	44329	CCXJ	44371	CCYZ
44245	CCTZ	44288	CCVP	44330	CCXK	44372	CCZA
44246	CCUA	44289	CCVQ	44331	CCXL	44373	CCZB
44247	CCUB	44290	CCVR	44332	CCXM	44374	CCZC
44248	CCUC	44291	CCVS	44333	CCXN	44375	CCZD
44249	CCUD	44292	CCVT	44334	CCXO	44376	CCZE
44250	CCUE	44293	CCVU	44335	CCXP	44377	CCZF
44251	CCUF	44294	CCVV	44336	CCXQ	44378	CCZG
44252	CCUG	44295	CCVW	44337	CCXR	44379	CCZH
44253	CCUH	44296	CCVX	44338	CCXS	44380	CCZI
44254	CCUI	44297	CCVY	44339	CCXT	44381	CCZJ
44255	CCUJ	44298	CCVZ	44340	CCXU	44382	CCZK
44256	CCUK	44299	CCWA	44341	CCXV	44383	CCZL
44257	CCUL	44300	CCWB	44342	CCXW	44384	CCZM
44258	CCUM	44301	CCWC	44343	CCXX	44385	CCZN
44259	CCUN	44302	CCWD	44344	CCXY	44386	CCZO
44260	CCUO	44303	CCWE	44345	CCXZ	44387	CCZP
44261	CCUP	44304	CCWK	44346	CCYA	44388	CCZQ

List A (Vigil units with cutters that are affected by PSB 01-2015)

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SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
44389	CCZR	44431	CDBG	44474	CDDA	44518	CDEQ
44390	CCZS	44432	CDBH	44475	Cddb	44519	CDER
44391	CCZT	44433	CDBI	44476	CDDC	44520	CDES
44392	CCZU	44434	CDBJ	44477	CDDD	44521	CDET
44393	CCZV	44435	CDBK	44478	CDDE	44522	CDEU
44394	CCZW	44436	CDBL	44479	CDDF	44523	CDEV
44395	CCZX	44437	CDBM	44480	CDDG	44524	CDEW
44396	CCZY	44438	CDBN	44481	CDDH	44525	CDEX
44397	CCZZ	44439	CDBO	44483	CDDJ	44526	CDEY
44398	CDAA	44440	CDBP	44484	CDDK	44527	CDEZ
44399	CDAB	44441	CDBQ	44485	CDDL	44528	CDFA
44400	CDAC	44442	CDBR	44486	CDDM	44529	CDFB
44401	CDAD	44443	CDBW	44487	CDDN	44530	CDFC
44402	CDAE	44444	CDBX	44489	CDDP	44531	CDFD
44403	CDAF	44445	CDBY	44490	CDDQ	44532	CDFE
44404	CDAG	44446	CDBZ	44491	CDBS	44533	CDFE
44405	CDAH	44447	CDCA	44492	CDBT	44534	CDFG
44406	CDAI	44449	CDCB	44493	CDDR	44535	CDFH
44407	CDAJ	44450	CDCD	44494	CDDS	44536	CDFI
44408	CDAK	44451	CDCE	44495	CDDT	44537	CDFJ
44409	CDAL	44452	CDCF	44496	CDDU	44538	CDFK
44410	CDAM	44453	CDCG	44497	CDDV	44539	CDFL
44411	CDAN	44454	CDCH	44498	CDDW	44540	CDFM
44412	CDAO	44455	CCWJ	44499	CDDX	44541	CDFN
44413	CDAP	44456	CDCI	44500	CDDY	44542	CDFO
44414	CDAQ	44457	CDCJ	44501	CDDZ	44543	CDFP
44415	CDAR	44458	CDCK	44502	CDEA	44544	CDFQ
44416	CDAS	44459	CDCL	44503	CDEB	44545	CDFR
44417	CDAT	44460	CDCM	44504	CDEC	44546	CDFS
44418	CDAU	44461	CDCN	44505	CDED	44547	CDFT
44419	CDAV	44462	CDCO	44506	CDEE	44548	CDFU
44420	CDAW	44463	CDCP	44507	CDEF	44549	CDFV
44421	CDAX	44464	CDCQ	44508	CDEG	44550	CDFW
44422	CDAY	44465	CDCR	44509	CDEH	44551	CDFX
44423	CDAZ	44466	CDCS	44510	CDEI	44552	CDFY
44424	CDBA	44467	CDCT	44511	CDEJ	44553	CDBU
44425	CDBB	44468	CDCU	44512	CDEK	44554	CDFZ
44426	CDBC	44469	CDCV	44513	CDEL	44555	CDGA
44427	CDBD	44470	CDCW	44514	CDEM	44556	CDGB
44428	CDBE	44471	CDCX	44515	CDEN	44557	CDGC
44429	CDCC	44472	CDCY	44516	CDEO	44558	CDGD
44430	CDBF	44473	CDCZ	44517	CDEP	44559	CDGE

List A (Vigil units with cutters that are affected by PSB 01-2015)

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SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
44560	CDGF	44604	CDHV	44647	CDJL	44690	CDLC
44561	CDGG	44605	CDHW	44648	CDJM	44691	CDLD
44562	CDGH	44606	CDHX	44649	CDJN	44692	CDLE
44563	CDGI	44607	CDHY	44650	CDJO	44693	CDLF
44564	CDGJ	44608	CDHZ	44651	CDJP	44694	CDLG
44565	CDGK	44609	CDIA	44652	CDJQ	44695	CDLH
44566	CDGL	44610	CDIB	44653	CDJR	44696	CDLI
44567	CDGM	44611	CDIC	44654	CDJS	44697	CDLJ
44568	CDGN	44612	CDID	44655	CDJT	44698	CDLK
44569	CDGO	44613	CDIE	44656	CDJU	44699	CDLL
44570	CDGP	44614	CDIF	44657	CDJV	44700	CDLM
44571	CDGQ	44615	CDIG	44658	CDJW	44701	CDLN
44572	CDGR	44616	CDIH	44659	CDJX	44702	CDLO
44573	CDGS	44617	CDII	44660	CDJY	44703	CDLP
44574	CDGT	44618	CDIJ	44661	CDJZ	44704	CDLQ
44575	CDGU	44619	CDIK	44662	CDKA	44705	CDLR
44576	CDGV	44620	CDIL	44663	CDKB	44706	CDLS
44578	CDGW	44621	CDIM	44664	CDKC	44707	CDLT
44579	CDGX	44623	15916	44665	CDKD	44708	CDLU
44580	CDGY	44624	CDIO	44666	CDKE	44709	CDLV
44581	CDGZ	44625	CDIP	44667	CDKF	44710	CDLW
44582	CDHA	44626	CDIQ	44668	CDKG	44711	CDLX
44583	CDHB	44627	CDIR	44669	CDKH	44712	CDLY
44584	CDHC	44628	CDIS	44670	CDKI	44713	CDLZ
44585	CDHD	44629	CDIT	44671	CDKJ	44714	CDMA
44586	CDHE	44630	CDIU	44672	CDKK	44715	CDMB
44587	CDHF	44631	CDIV	44673	CDKL	44716	CDMC
44588	CDHG	44632	CDIW	44674	CDKM	44717	CDNK
44589	CDHH	44633	CDIX	44675	CDKN	44718	CDNL
44590	CDHI	44634	CDIY	44676	CDKO	44719	CDNM
44591	CDHJ	44635	CDIZ	44677	CDKP	44720	CDNN
44592	CDHK	44636	CDJA	44679	CDKR	44721	CDNO
44593	CDHL	44637	CDJB	44680	CDKS	44722	CDNP
44594	CDHM	44638	CDJC	44681	CDKT	44723	CDNQ
44595	CDHN	44639	CDJD	44682	CDKU	44724	CDNR
44596	CDHO	44640	CDJE	44683	CDKV	44725	CDNS
44597	CDHP	44641	CDJF	44684	CDKW	44726	CDNT
44598	CDHQ	44642	CDJG	44685	CDKX	44727	CDNU
44600	CDHR	44643	CDJH	44686	CDKY	44728	CDNV
44601	CDHS	44644	CDJI	44687	CDKZ	44729	CDNW
44602	CDHT	44645	CDJJ	44688	CDLA	44730	CDNX
44603	CDHU	44646	CDJK	44689	CDLB	44731	CDNY

List A (Vigil units with cutters that are affected by PSB 01-2015)

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SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
44732	CDNZ	44774	CDPP	44822	CDRK	44866	CDTA
44733	CDOA	44775	CDPQ	44823	CDVN	44867	CDTB
44734	CDOB	44776	CDPR	44824	CDRL	44870	CDTE
44735	CDOC	44777	CDPS	44825	CDRM	44871	CDTF
44736	CDOD	44778	CDPT	44826	CDRN	44872	CDTG
44737	CDOE	44779	CDPU	44827	CDRO	44873	CDTH
44738	CDOF	44780	CDPV	44828	CDRP	44874	CDTI
44739	CDOG	44781	CDPW	44829	CDRQ	44875	CDTJ
44740	CDOH	44782	CDPX	44830	CDRR	44876	CDTK
44741	CDOI	44783	CDPY	44831	CDRS	44877	CDTL
44742	CDOJ	44784	CDPZ	44832	CDRT	44878	CDTM
44743	CDOK	44786	CDQA	44833	CDRU	44879	CDTN
44744	CDOL	44787	CDQB	44834	CDRV	44880	CDTO
44745	CDOM	44792	CDQG	44835	CDRW	44881	CDTP
44746	CDON	44793	CDQH	44836	CDRX	44882	CDTQ
44747	CDOO	44794	CDQI	44837	CDRY	44883	CDTR
44748	CDOP	44795	CDQJ	44838	CDRZ	44884	CDTS
44749	CDOQ	44796	CDQK	44839	CDSA	44885	CDTT
44750	CDOR	44797	CDQL	44840	CDSB	44886	CDTU
44751	CDOS	44798	CDQM	44841	CDSC	44887	CDTV
44752	CDOT	44799	CDQN	44842	CSDS	44888	CDTW
44753	CDOU	44800	CDQO	44844	CDSE	44889	CDTX
44754	CDOV	44801	CDQP	44845	CDSF	44890	CDTY
44755	CDOW	44802	CDQQ	44846	CDSG	44891	CDZL
44756	CDOX	44803	CDQR	44847	CDSH	44892	CDTZ
44757	CDOY	44804	CDQS	44848	CDSI	44893	CDUA
44758	CDOZ	44805	CDQT	44849	CDSJ	44894	CDUB
44759	CDPA	44806	CDQU	44850	CDSK	44895	CDUC
44760	CDPB	44807	CDQV	44851	CDSL	44896	CDUD
44761	CDPC	44808	CDQW	44852	CDSM	44897	CDUE
44762	CDPD	44809	CDQX	44853	CDSN	44898	CDUF
44763	CDPE	44810	CDQY	44854	CDSO	44899	CDUG
44764	CDPF	44811	CDQZ	44855	CDSP	44900	CDUH
44765	CDPG	44812	CDRA	44856	CDSQ	44901	CDUI
44766	CDPH	44813	CDRB	44857	CDSR	44902	CDUJ
44767	CDPI	44814	CDRC	44858	CDSS	44903	CDUK
44768	CDPJ	44816	CDRE	44860	CDSU	44904	CDUL
44769	CDPK	44817	CDRF	44861	CDSV	44905	CDUM
44770	CDPL	44818	CDRG	44862	CDSW	44906	CDUN
44771	CDPM	44819	CDRH	44863	CDSX	44907	CDUO
44772	CDPN	44820	CDRI	44864	CDSY	44908	CDUP
44773	CDPO	44821	CDRJ	44865	CDSZ	44909	CDUQ

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
44910	CDUR	44969	CDWV	45012	CDYM	45054	CEAE
44911	CDUS	44970	CDWW	45013	CDYN	45055	CEAF
44912	CDUT	44971	CDWX	45014	CDYO	45056	CEAG
44913	CDUU	44972	CDWY	45015	CDYP	45061	CEFH
44914	CDUV	44973	CDWZ	45016	CDYQ	45063	CDMV
44915	CDUW	44974	CDXA	45017	CDYR	45064	CDMW
44916	CDUX	44975	CDXB	45018	CDYS	45065	CDMX
44917	CDUY	44976	CDXC	45019	CDYT	45066	CDMY
44918	CDUZ	44977	CDXD	45020	CDYU	45067	CDMZ
44919	CDVO	44978	CDXE	45021	CDYV	45068	CDNA
44920	CDVP	44979	CDXF	45022	CDYW	45069	CDNB
44921	CDVQ	44980	CDXG	45023	CDYX	45070	CDNC
44922	CDVR	44981	CDXH	45024	CDYY	45071	CDND
44923	CDVS	44982	CDXI	45025	CDYZ	45072	CDNE
44924	CDVT	44983	CDXJ	45026	CDZA	45077	CDNJ
44942	CDVU	44984	CDXK	45027	CDZB	45084	CEQF
44943	CDVV	44985	CDXL	45028	CDZC	45085	CEQG
44944	CDVW	44986	CDXM	45029	CDZD	45086	CEQH
44945	CDVX	44987	CDXN	45030	CDZE	45087	CEQI
44946	CDVY	44989	CDXP	45031	CDZF	45088	CEQJ
44947	CDVZ	44990	CDXQ	45032	CDZG	45089	CEQK
44948	CDWA	44991	CDXR	45033	CDZH	45090	CEZP
44949	CDWB	44992	CDXS	45034	CEFF	45091	CEAH
44950	CDWC	44993	CDXT	45035	CDZI	45092	CEAI
44951	CDWD	44994	CDXU	45036	CDZM	45093	CEAJ
44952	CDWE	44995	CDXV	45037	CDZN	45094	CEAK
44953	CDWF	44996	CDXW	45038	CDZO	45095	CEAL
44954	CDWG	44997	CDXX	45039	CDZP	45096	CEAM
44955	CDWH	44998	CDXY	45040	CDZQ	45097	CEAN
44956	CDWI	44999	CDXZ	45041	CDZR	45098	CEAO
44957	CDWJ	45000	CDYA	45042	CDZS	45099	CEAP
44958	CDWK	45001	CDYB	45043	CDZT	45100	CEAQ
44959	CDWL	45002	CDYC	45044	CDZU	45101	CEAR
44960	CDWM	45003	CDYD	45045	CDZV	45102	CEAS
44961	CDWN	45004	CDYE	45046	CDZW	45103	CEAT
44962	CDWO	45005	CDYF	45047	CDZX	45104	CEAU
44963	CDWP	45006	CDYG	45048	CDZY	45105	CEAV
44964	CDWQ	45007	CDYH	45049	CDZZ	45106	CEAW
44965	CDWR	45008	CDYI	45050	CEAA	45107	CEAX
44966	CDWS	45009	CDYJ	45051	CEAB	45108	CEAY
44967	CDWT	45010	CDYK	45052	CEAC	45109	CEAZ
44968	CDWU	45011	CDYL	45053	CEAD	45110	CEBA

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
45111	CEBB	45155	CECT	45200	CEEL	45243	CEGE
45112	CEBC	45156	CECU	45201	CEEM	45244	CEGF
45113	CEBD	45157	CECV	45202	CEEN	45245	CEGG
45114	CEBE	45158	CECW	45203	CEEO	45246	CEGH
45115	CEBF	45159	CECX	45204	CEEP	45247	CEGI
45116	CEBG	45160	CECY	45205	CEEQ	45248	CEGJ
45117	CEBH	45161	CECZ	45206	CEER	45249	CEGK
45118	CEBI	45162	CEDA	45208	CEET	45250	CEGL
45119	CEBJ	45163	CEDB	45209	CEEU	45251	CEGM
45120	CEBK	45164	CEDC	45210	CEEV	45252	CEGN
45121	CEBL	45165	CEDD	45211	CEEW	45253	CEGO
45122	CEBM	45166	CEDE	45212	CEEX	45254	CEGP
45123	CEBN	45167	CEDF	45213	CEEY	45255	CEGQ
45124	CEBO	45168	CEDG	45214	CEEZ	45256	CEGR
45125	CEBP	45169	CEDH	45215	CEFA	45257	CEGS
45126	CEBQ	45170	CEDI	45216	CEFB	45258	CEGT
45127	CEBR	45171	CEDJ	45217	CEFC	45259	CEGU
45128	CEBS	45172	CEDK	45218	CEFD	45260	CEGV
45129	CEBT	45173	CEDL	45219	CEFE	45261	CEGW
45130	CEBU	45174	CEDM	45220	CEFI	45262	CEGX
45131	CEBV	45175	CEDN	45221	CEFJ	45263	CEGY
45132	CEBW	45176	CEDO	45222	CEFK	45264	CEGZ
45133	CEBX	45177	CEDP	45223	CEFL	45265	CEHA
45134	CEBY	45178	CEDQ	45224	CEFM	45275	CDVM
45135	CEBZ	45182	CEDU	45225	CEFN	45276	CEHB
45138	CECC	45183	CEDV	45226	CEFO	45277	CEHC
45139	CECD	45184	CEDW	45227	CEFP	45278	CEHD
45140	CECE	45185	CEDX	45228	CEFQ	45279	CEHE
45141	CECF	45186	CEDY	45229	CEFR	45280	CEHF
45142	CECG	45187	CEDZ	45230	CEFS	45281	CEHG
45143	CECH	45188	CEEA	45231	CEFT	45282	CEHH
45144	CECI	45189	CEEB	45232	CEFU	45283	CEHI
45145	CECJ	45190	CEEC	45233	CEFV	45284	CEHJ
45146	CECK	45191	CEED	45234	CEFW	45285	CEHK
45147	CECL	45192	CEEE	45235	CEFX	45286	CEHL
45148	CECM	45193	CEEF	45236	CEFY	45287	CEHM
45149	CECN	45194	CEEG	45237	CEFZ	45288	CEHN
45150	CECO	45195	CEEH	45238	CEGA	45289	CEHO
45151	CECP	45196	CEEI	45239	CEGB	45290	CEHP
45152	CECQ	45197	CEEJ	45240	CEGC	45291	CEHQ
45153	CECR	45198	CEEK	45241	CDVC	45292	CEHR
45154	CECS	45199	CDZJ	45242	CEGD	45293	CEHS

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
45294	CEHT	45344	CEJQ	45386	CELF	45428	CEMV
45295	CEHU	45345	CEJR	45387	CELG	45429	CEMW
45296	CEHV	45346	CEJS	45388	CELH	45430	CENG
45297	CEHW	45347	CEJT	45389	CELI	45431	CEMY
45298	CEHX	45348	CEJU	45390	CELJ	45432	CEMZ
45299	CEHY	45349	CEJV	45391	CELK	45433	CENA
45300	CEHZ	45350	CEJW	45392	CELL	45434	CENB
45301	CEIA	45351	CEJX	45393	CELM	45435	CENC
45302	CEIB	45352	CEJY	45394	CELN	45436	CEND
45303	CENH	45353	CEJZ	45395	CELO	45437	CENE
45304	CEIC	45354	CEKA	45396	CELP	45438	CENF
45305	CEID	45355	CEKB	45397	CELQ	45439	CENI
45306	CEIE	45356	CEKC	45398	CELR	45440	CENJ
45307	CEIF	45357	CEKD	45399	CELS	45441	CENK
45313	CEIL	45358	CEKE	45400	CELT	45442	CENL
45314	CEIM	45359	CEKF	45401	CELU	45444	CENN
45315	CEIN	45360	CEKG	45402	CELV	45445	CENO
45316	CEIO	45361	CEKH	45403	CELW	45446	CENP
45317	CEIP	45362	CEKI	45404	CELX	45447	CENQ
45318	CEIQ	45363	CEKJ	45405	CELY	45448	CENR
45319	CEIR	45364	CEKK	45406	CELZ	45449	CENS
45320	CEIS	45365	CEKL	45407	CEMA	45450	CENT
45321	CEIT	45366	CEKM	45408	CEMB	45451	CENU
45322	CEIU	45367	CEKN	45409	CEMC	45452	CENV
45323	CEIV	45368	CEKO	45410	CEMD	45453	CENW
45324	CEIW	45369	CEKP	45411	CEME	45454	CENX
45325	CEIX	45370	CEKQ	45412	CEMF	45455	CENY
45326	CEIY	45371	CEKR	45413	CEMG	45456	CENZ
45327	CEIZ	45372	CEKS	45414	CEMH	45457	CEOA
45328	CEJA	45373	CEKT	45415	CEMI	45458	CEOB
45329	CEJB	45374	CEKU	45416	CEMJ	45459	CEOC
45330	CEJC	45375	CEKV	45417	CEMK	45460	CEOD
45331	CEJD	45376	CEKW	45418	CEML	45461	CEOE
45332	CEJE	45377	CEKX	45419	CEMM	45462	CEOF
45333	CEJF	45378	CEKY	45420	CEMN	45463	CEOG
45334	CEJG	45379	CEKZ	45421	CEMO	45464	CEOH
45338	CEJK	45380	CDZK	45422	CEMP	45465	CEOI
45339	CEJL	45381	CELA	45423	CEMQ	45466	CEOJ
45340	CEJM	45382	CELB	45424	CEMR	45467	CEOK
45341	CEJN	45383	CELC	45425	CEMS	45468	CEOL
45342	CEJO	45384	CELD	45426	CEMT	45469	CEOM
45343	CEJP	45385	CELE	45427	CEMU	45470	CEON

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
45471	CEOO	45518	CEQS	45571	CESS	45613	CEUI
45472	CEOP	45519	CEQT	45572	CEST	45614	CEUJ
45474	CEOR	45520	CEQU	45573	CESU	45615	CEUK
45475	CEOS	45521	CEQV	45574	CESV	45616	CEUL
45476	CEOT	45522	CEQW	45575	CESW	45617	CEUM
45477	CEOU	45523	CEQX	45576	CESX	45618	CEUN
45478	CEOV	45524	CEQY	45577	CESY	45619	CEUO
45479	CEOW	45525	CEQZ	45578	CESZ	45620	CEUP
45482	CEOZ	45526	CERA	45579	CETA	45621	CEUQ
45483	CEPA	45527	CERB	45580	CETB	45622	CEUR
45484	CEPB	45528	CERC	45581	CETC	45623	CEUS
45485	CEPC	45529	CERD	45582	CETD	45624	CEUT
45486	CEPD	45530	CERE	45583	CETE	45625	CEUU
45487	CEPE	45531	CERF	45584	CETF	45626	CEUV
45488	CEPF	45532	CERG	45585	CETG	45627	CEUW
45489	CEPG	45533	CERH	45586	CETH	45628	CEUX
45490	CEPH	45534	CERI	45587	CETI	45629	CEUY
45491	CEPI	45535	CERJ	45588	CETJ	45630	CEUZ
45492	CEPJ	45536	CERK	45589	CETK	45631	CEVA
45493	CEPK	45537	CERL	45590	CETL	45632	CEVB
45495	CEPL	45538	CERM	45591	CETM	45633	CEVC
45496	CEPM	45539	CERN	45592	CETN	45634	CEVD
45497	CEPN	45540	CERO	45593	CETO	45635	CEVE
45498	CEPO	45541	CERP	45594	CETP	45636	CEVF
45499	CEPP	45542	CERQ	45595	CETQ	45637	CEVG
45500	CEPQ	45543	CERR	45596	CETR	45638	CEVH
45501	CEPR	45544	CERS	45597	CETS	45639	CEVI
45502	CEPS	45545	CERT	45598	CETT	45640	CEVJ
45503	CEPT	45546	CERU	45599	CETU	45641	CEVK
45504	CEPU	45548	CERV	45600	CETV	45642	CEVL
45505	CEPV	45549	CERW	45601	CETW	45643	CEVM
45506	CEPW	45550	CERX	45602	CETX	45644	CEVN
45507	CEPX	45551	CERY	45603	CETY	45645	CEVO
45508	CEPY	45552	CERZ	45604	CETZ	45646	CEVP
45509	CEPZ	45563	CESK	45605	CEUA	45647	CEVQ
45510	CEQA	45564	CESL	45606	CEUB	45648	CEVR
45511	CEQL	45565	CESM	45607	CEUC	45649	CEZM
45512	CEQM	45566	CESN	45608	CEUD	45650	CEVT
45514	CEQO	45567	CESO	45609	CEUE	45651	CEVU
45515	CEQP	45568	CESP	45610	CEUF	45652	CEVV
45516	CEQQ	45569	CESQ	45611	CEUG	45653	CEVW
45517	CEQR	45570	CESR	45612	CEUH	45654	CEVX

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
45655	CEZN	45697	CEYA	45741	CEZW	45792	CFBJ
45656	CEVZ	45698	CEYB	45742	CEZX	45793	CFBK
45657	CEZO	45699	CEYC	45743	CEZY	45794	CFBL
45658	CEWB	45700	CEYD	45744	CEZZ	45795	CFBM
45659	CEWC	45701	CEYE	45745	CFAA	45796	CFBN
45660	CEWD	45702	CEYF	45746	CFAB	45797	CFBO
45661	CEWE	45703	CEYG	45747	CFAC	45798	CFBQ
45662	CEWF	45704	CEYH	45748	CFAD	45799	CFBR
45663	CEWG	45705	CEYI	45749	CFAE	45800	CFBS
45664	CEWH	45706	CEYJ	45750	CFAF	45801	CFBT
45665	CEWI	45707	CEYK	45751	CFAG	45802	CFBU
45666	CEWJ	45708	CEXB	45752	CFAH	45803	CFBV
45667	CEWK	45709	CEXC	45753	CFAI	45804	CFBW
45668	CEWL	45710	CEYL	45754	CFAJ	45805	CFBX
45669	CEWM	45711	CEYM	45755	CFAK	45806	CFBY
45670	CEWN	45712	CEYN	45756	CFAL	45807	CFBZ
45671	CEWO	45713	CEYO	45757	CFAM	45808	CFCA
45672	CEWP	45714	CEYP	45758	CFAN	45809	CFCB
45673	CEWQ	45715	CEYQ	45759	CFAO	45810	CFCC
45674	CEWR	45716	CEYR	45760	CFAP	45811	CFCD
45675	CEWS	45718	CEYT	45761	CFAQ	45812	CFCE
45676	CEWT	45719	CEYU	45762	CFAR	45813	CFCF
45677	CEWU	45720	CEYV	45763	CFAS	45814	CFCG
45678	CEWV	45721	CEYW	45764	CFAT	45815	CFCH
45679	CEWW	45723	CEYY	45765	CFAU	45816	CFCI
45680	CEWX	45724	CEYZ	45766	CFAV	45817	CFCJ
45681	CEWY	45725	CEZA	45767	CFAW	45818	CFCK
45682	CEWZ	45726	CEZB	45768	CFAX	45819	CFCL
45683	CEXA	45727	CEZC	45769	CFAY	45820	CFCM
45684	CEXN	45728	CEZD	45770	CEXD	45821	CFCN
45685	CEXO	45729	CEZE	45771	CEXE	45822	CFCO
45686	CEXP	45730	CEZF	45772	CEXF	45823	CFCP
45687	CEXQ	45731	CEZG	45780	CEZQ	45824	CFCQ
45688	CEXR	45732	CEZH	45781	CFAZ	45825	CFCR
45689	CEXS	45733	CEZI	45782	CFBP	45826	CFCS
45690	CEXT	45734	CEZJ	45783	CFBA	45827	CFCT
45691	CEXU	45735	CEZK	45784	CFBB	45828	CFCU
45692	CEXV	45736	CEZR	45785	CFBC	45829	CFCV
45693	CEXW	45737	CEZS	45786	CFBD	45830	CFCW
45694	CEXX	45738	CEZT	45787	CFBE	45831	CFCX
45695	CEXY	45739	CEZU	45788	CFBF	45832	CFCY
45696	CEXZ	45740	CEZV	45789	CFBG	45833	CFCZ

List A (Vigil units with cutters that are affected by PSB 01-2015)

SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
45834	CFDA	45889	CFFT	45946	CFHI	45988	CFIY
45835	CFDB	45890	CFFU	45947	CFHJ	45989	CFIZ
45836	CFDC	45891	CFFV	45948	CFHK	45990	CFJA
45837	CFDD	45892	CFFW	45949	CFHL	45991	CFJB
45838	CFDE	45893	CFFX	45950	CFHM	45992	CFJC
45839	CFDF	45894	CFFY	45951	CFHN	45993	CFJD
45840	CFDG	45895	CFFZ	45952	CFHO	45994	CFJE
45841	CFDH	45896	CFGA	45953	CFHP	45995	CFJF
45842	CFDI	45897	CFGB	45954	CFHQ	45996	CFJG
45843	CFDJ	45898	CFGC	45955	CFHR	45997	CFJH
45844	CFDK	45913	CFEV	45956	CFHS	45999	CFJJ
45845	CFDL	45914	CFEW	45957	CFHT	46000	CFJK
45846	CFDM	45915	CFGD	45958	CFHU	46001	CFJL
45859	CFDZ	45916	CFGE	45959	CFHV	46002	CFJM
45860	CFEA	45917	CFGF	45960	CFHW	46003	CFJN
45861	CFEB	45918	CFGG	45961	CFHX	46004	CFJO
45862	CFEC	45919	CFGH	45962	CFHY	46005	CFJP
45863	CFED	45920	CFGI	45963	CFHZ	46006	CFJQ
45864	CFEE	45921	CFGJ	45964	CFIA	46007	CFJR
45865	CFEF	45922	CFGK	45965	CFIB	46008	CFJS
45866	CFEG	45924	CFGM	45966	CFIC	46009	CFJT
45867	CFEX	45925	CFGN	45967	CFID	46010	CFJU
45868	CFEY	45926	CFGO	45968	CFIE	46011	CFJV
45869	CFEZ	45927	CFGP	45969	CFIF	46013	CFJW
45870	CFFA	45928	CFGQ	45970	CFIG	46014	CFJX
45871	CFFB	45929	CFGR	45971	CFIH	46015	CFKR
45872	CFFC	45930	CFGS	45972	CFII	46016	CFJZ
45873	CFFD	45931	CFGT	45973	CFIJ	46017	CFKA
45874	CFFE	45932	CFGU	45974	CFIK	46018	CFKB
45875	CFFF	45933	CFGV	45975	CFIL	46019	CFKC
45876	CFFG	45934	CFGW	45976	CFIM	46020	CFKD
45877	CFFH	45935	CFGX	45977	CFIN	46021	CFKE
45878	CFFI	45936	CFGY	45978	CFIO	46022	CFKF
45879	CFFJ	45937	CFGZ	45979	CFIP	46023	CFKG
45881	CFFL	45938	CFHA	45980	CFIQ	46024	CFKH
45882	CFFM	45939	CFHB	45981	CFIR	46025	CFKI
45883	CFFN	45940	CFHC	45982	CFIS	46026	CFKJ
45884	CFFO	45941	CFHD	45983	CFIT	46027	CFKK
45885	CFFP	45942	CFHE	45984	CFIU	46028	CFKL
45886	CFFQ	45943	CFHF	45985	CFIV	46029	CFKM
45887	CFFR	45944	CFHG	45986	CFIW	46030	CFKN
45888	CFFS	45945	CFHH	45987	CFIX	46031	CFKO

List A (Vigil units with cutters that are affected by PSB 01-2015)

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SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter	SN Vigil	Cutter
46032	CFKP	46055	CFLO	46074	CFMF	46084	CFMP
46033	CFKQ	46064	CFLW	46075	CFMG	46085	CFMQ
46038	CFKX	46065	CFLX	46076	CFMH	46086	CFMR
46039	CFKY	46066	CFLY	46077	CFMI	46087	CFMS
46040	CFKZ	46067	CFLZ	46078	CFMJ	46088	CFMT
46042	CFLB	46068	CFMA	46079	CFMK	46095	CFNA
46043	CFLC	46069	CFMB	46080	CFML	46096	CFNB
46045	CFLE	46070	CFMC	46081	CFMM	46097	CFNC
46053	CFLM	46071	CFMD	46082	CFMN		
46054	CFLN	46073	CFME	46083	CFMO		

List B (Spare part cutters that are affected by PSB 01-2015)

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Spare Cutter	Spare Cutter	Spare Cutter	Spare Cutter
15645	15708	15856	15922
15697	15709	15857	15923
15698	15710	15858	15924
15699	15711	15870	15925
15701	15712	15894	15926
15702	15759	15895	15927
15703	15760	15896	15946
15704	15825	15897	17557
15705	15826	15910	
15706	15827	15920	
15707	15839	15921	