N168DP

1968 Piper Cherokee 180D

FAA Form 337s

MSN: 28-4402



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020 Exp: 5/31/2018	Electronic Tracking Number	
Ī	or FAA Use Only	

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a)) Serial No. 28-4402 Nationality and Registration Mark N168DP 1. Aircraft Make Series PA-28-180 PIPER Name (As shown on registration certificate) Address (As shown on registration certificate) Address 2327 INEZ DR NE ROBBINS DAVID R 2. Owner ALBUQUERQUE State NM 87110-4733 UNITED STATES 3. For FAA Use Only 5. Unit Identification 4. Type Alteration Serial No. Repair Unit Make Model PIPER 28-4402 (As described in Item 1 above) **AIRFRAME** X **POWERPLANT PROPELLER** Type **APPLIANCE** Manufacturer 6. Conformity Statement B. Kind of Agency A. Agency's Name and Address AIR ONE SYSTEMS LLC U. S. Certificated Mechanic Manufacturer Address 7401 ATRISCO VISTA BLVD NW Foreign Certificated Mechanic C. Certificate No. State NEW MEXICO City ALBUQUERQUE Certificated Repair Station OECR893K UNITED STATES Certificated Maintenance Organization Zip I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge. Signature/Date of Authorized Individual Extended range fuel per 14 CFR Part 43 David J Espinora 3-22-2019 Арр. В 7. Approval for Return to Service Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected Persons Approved by Canadian FAA Flt. Standards Maintenance Organization Manufacturer Department of Transport Inspector RY Other (Specify) FAA Designee Repair Station Inspection Authorization Signature/Date of Authorized Individual Certificate or Designation No. OECR893K 3-22-2019 David J Espinosa

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

	US N168DP Nationality and Registration Mark	MARCH 22, 2019 Date
REMOVED NAV LIGHT AND STROBE LIGHT ON L SKYBEACON P/N: UAV-1001856-002, MOD 1, S/N: REMOVED NAV LIGHT AND STROBE LIGHT.	EFT WING TIP. INSTAL	
JAVIONIX SKYBEACON INSTALLED IAW STC SAG P/N: UAV-1002305-001, REV D, DATED MARCH 2		LLATION MANUAL
JNIT CONFIGURATION AND POST OPERATIONA SPECIFICATIONS.	L CHECKS MEET MANU	JFACTURER
AFMS AND ICA GIVEN TO CUSTOMER THIS DATE	Ξ.	
NO WEIGHT AND BALANCE CHANGE.		
OG BOOK ENTRY COMPLETED THIS DATE.		

US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION

Form Approved OMB No. 2120-0020 2/28/2011	Electronic Tracking Number
F	or FAA Use Only

of Transpo Federal A Administr	ortation viation	(Airfram	e, Powerplant, Pro	op	elle	er, or App	iance)			TO TAX USE ONLY		
instruct	UCTIONS: Print ions and dispos olation. (49 U.S.	ition of this	form. This report is requ	OFF	R §4	13.9, Part 43 y law (49 U.S	Appendix B, ar S.C. §44701). Fa	nd AC 43.9- allure to repo	1 (or sub ort can res	sequent revision thereof) for sult in a civil penalty for each		
Nationality and Re N168DP 1. Aircraft Make Piper			tration Mark	-		Serial No. 28-4402						
							Model PA-28-180	Series				
		s shown on r	registration certificate)				Address (As s	hown on reg	istration of STE 14	certificate) O		
2. Owner	2. Owner					City Holland Zip 49424-8324				State MI Country Ottawa		
					3. F	or FAA Use	Only					
4.	Туре				5. U	nit Identifica	ition					
Repair	Alteration	Unit	N	/lak	e			Model		Serial No.		
	Ø	AIRFRAME					(As describe	d in Item 1 a	bove)			
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		PROPELLE										
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Address 16	6446 Comstoc	k St.					ficated Mechanic		C. Certific			
-	rand Haven 417 c∞	untry Ottawa	State MI a	·	-	Certificated Repair Station Certificated Maintenance Organization 3253294			94			
hav	e been made in	accordance true and con	with the requirements of rect to the best of my kn	of P	Part 4 ledg	43 of the U.S ge.	m 5 above and Federal Aviatio	described on Regulation	on the reve as and tha	erse or attachments hereto at the information		
	range fuel FR Part 43		Signature/Date of Autho	rize	ed Ir		110115					
Dumus	at to the suffic	mits observe				al for Return						
	strator of the Fed	deral Aviation	persons specified belo n Administration and is	w,	ıne		Approved	Rejecte	đ	e manner prescribed by the		
ВҮ	FAA Flt. Stand Inspector		Manufacturer			intenance Or			tment of Tr	d by Canadian ansport		
	FAA Designee	<u> </u>	Repair Station	1	Ins	pection Author	onzation					
	rtificate or signature/Date of Authorized Individual signation No. 253294 Suve 9/10/15											

Work completed for [N168DP] on

be compatible with all previous		N168DP	9/10/2015	
8. Description of Work Accomp	plished	Nationality and Re		
Installed BAS Inc. shoulde Balance not effected.	r harness with inertia			ht and
		END		
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Additional Sheets Are Attached

Motter States of America

Bepartment of Transportation Bederal Aviation Administration

Supplemental Type Certificate

KEEP	WITH	AIRCRAFT	RECORDS

Number SA01643SE

This certificate, issued to:

BAS, Inc. 411 Super Cub Drive North PO Box 190 Eatonville, WA 98328 Reg 9 N 168 DP AC Ser. # 28 7402 B.A.S. Inc. Ser. # 7/0

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product — Type Certificate Number:

* See Attached FAA Approved Model List SA01643SE

Make:

for List of Approved Airplane Models and

Model:

Applicable Airworthiness Regulations

Description of the Type Design Change: Installation of BAS, Inc. shoulder harness with inertia reel in accordance with BAS, Inc. Report 1006, dated October 15, 2005, or later FAA-approved revision.

Limitations and Conditions. Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft.

A copy of this certificate and FAA Approved Model List SA01643SE must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application:

March 22, 2005

Date reissued:

Date of issuance:

February 13, 2006

Date amended:

December 02, 2010



By direction of the Administrator,

(Signature)

Acting Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

FAA APPROVED MODEL LIST (AML) No. SA01643SE BAS, Inc.

for SHOULDER HARNESS INSTALLATION

ORIGINAL ISSUE DATE: February 13, 2006

			ORIGINAL	C	FAA APPROVED I	DRAWING / DRAWING LIST		
ITEN	AIRCRAFT MAKE	Aircraft Model	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	Number	REVISION NO. AND DATE Or Later FAA-Approved Revision	AML AMENDMENT DATE	
1	Piper Aircraft, Inc.	PA-28-140, PA-28-150, PA-28-160, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180, PA-28R-180, PA-28R-200, PA-28-151, PA-28-161, PA-28-181, PA-28R-201, PA-28R-201T, PA-28-236, PA-28RT-201, PA-28RT-201T, PA-28-201T	2A13	CAR 3, and Type Certificate DS 2A13	Report No. 1006	Revision New, dated October 15, 2005	December 02, 2010	
2	Piper Aircraft, Inc	PA-32-260, PA-32-300, PA-32S-300, PA-32RT-300, PA-32RT-300, PA-32RT-300T, PA-32-301FT, PA-32-301XTC, PA-32R-301 (SP), PA-32R-301 (HP), PA-32R-301T, PA-32-301, PA-32-301T	A3SO	CAR 3, and Type Certificate DS A3SO	Report No. 1006	Revision New, dated October 15, 2005	December 02, 2010	
3	Piper Aircraft, Inc	PA-34-200, PA-34-200T, PA-34-220T ,	A7SO	FAR 23	Report No. 1006	Revision New, dated October 15, 2005	December 02, 2010	

FAA Approved:	TA
	Acting Manager, Seattle Aircraft Certification Office
Reissued:	
Amended:	December 02, 2010

US Department of Transportation Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

7	Form Approved
	Form Approved OMB No. 2120-0020 For FAA Use Only Office Identification
For FAA Use Only Office Identification	
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	7-S10 50-25

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

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		Make				·		Model PA-28-	100			
1. Aircı	raft	Piper Serial No.						National	lity and Registration	n Mark	· · · · · · · · · · · · · · · · · · ·	
2. Own	er	28-4402 Name (As sh David A I		on registration cer	rtificate	USA N168DP Address (As shown on registration certificate) 495 Tate Road Dyersburg, TN 38024						
The d state Date:	d aiı	rcraft, su	npl:	ies with the	app ormit	lica y i	nspection	rement by a p	ts and is apperson author	rizød :	in FAR 4	above 3.7.
	-					4. l	Jnit Identificati	on /			5. Type	
Ur	nit		Ма	ke			Model		Serial No	Э.	Repair	Alteration
AIRFRAI	ME	ME(As des					d in Item 1 abov	/e) ~~~		•		Х
POWER	PLANT											
PROPEL	LER											
APPLIAN	NCE	Type Manufacturer	r									
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		ame and Addre				В.	Kind of Agency	/		C. Certi	ficate No.	
236 D:	rake	er L. Drok St. #23 I 38063	æ			X U.S. Certificated Mechanic Foreign Certificated Mechanic Certificated Repair Station A&P409139173						
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							al for Return To					
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вү —	FAA Inspe	FIt. Standards ector		Manufacturer	X	Insp	ection Authoriza	ation	Other (Specify)			
		Designee	·	Repair Station		Cana	on Approved by ada Airworthine	ss Group				
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

- 1. Installed Aeroflash Strobe Light System Model 156-0003 (14VDC).
- 2. The system consists of 2 each 152-0007A power supplies S/N's J01036144 and J01036145. 2 each Strobe Lamp Assemblies with lens retainers, 1 each cockpit decal, 1 each 5-Amp Switch/Circuit Breaker and associated wiring.
- 3. The Aeroflash strobe light system Model 156-0003 14VDC is a complete strobe kit which has remote mounted power supplies and separate lamp assemblies. This strobe light system is approved as anti-collision lights as required by FAR 23.1401, 27.1401 and 91.33 (c) 3 as amended by Federal Docket 10129, dated 10 July 1971. FAA Parts Manufacturer Approval (FAA/PMA) in compliance with standards of Federal Aviation Regulation Part 21 Section 21.303 has been granted. The strobe system may be installed under the provisions of FAA Advisory Circular 20-30B using the following specifications: AC43.13-1B Chapter 10-11 and AC43.13-2A Chapter 4.
- 4. The strobe power supplies were mounted in each wing tip. The strobe lamp assemblies were mounted behind the existing navigation lights utilizing the systems lens retainer. Utilized 2 conductor shielded MIL-DTL-27500-20TG3T14 wire as the A+ interface wire. Utilized a Potter-Brumfield W31X2M1G-5 switch/circuit breaker as the on/off device. The system was interfaced to the aircraft buss by utilizing the W31X2M1G-5 switch/circuit breaker.
- 5. Placard "Warning-To avoid optical illusion and severe vertigo, turn anti-collision lights off upon entering clouds, fog or haze.
- 6. This system was installed with reference to the manufacturers' instructions and the acceptable methods, techniques and practices in Advisory Circular (AC) 43.13-1B, Chapter 10 paragraphs 16, 20and 21; chapter 11 paragraphs 30-32, 37, 47-52, 76, 77, 96, 104, 105, 115, 116, 135-139, 155 167, 174, 185 and 186; AC43.13-2A Chapter 4 paragraphs 51a, 51b, 52, 53, 54, 56a, b(1), and 2(d).
- 7. Post installation ground accuracy and function tests were performed with reference to the manufacturer instructions. All systems operated normally.
- 5. Aircraft weight and balance data and equipment list have been revised to include this system. An airframe logbook entry was made which references this FAA Form 337 and complies with FAR Section 43.9.
- 6. Total electrical load does not exceed 80% of total alternator output.
- 7. ICA attached.
- 8. Reference Dyersburg Aviation work order 3062.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR MODEL 156-0003 AEROFLASH STROVE AS INSTALLED IN PIPER PA28-180 S/N 28-4402 REG# N198DP

- 1. SEE BLOCK 1 AND/OR 4 OF THE FAA FORM 337.
- 2. SEE BLOCK 8 ITEM 2 OF THIS FAA FORM 337.
- 3. OPERATION OF THE STROBE SYSTEM CONSISTING OF TURNING THE SYSTEM ON BY ACTIVATING THE APPROPRIATELY LABELED STROBE ON/OFF SWITCH.
- 4. SERVICING REQUIREMENTS FOR THE EQUIPMENT AS INSTALLED IN THIS INSTALLATION WILL CONSIST OF REPLACING A DEFECTIVE P/N 152-0007A STROBE POWER SUPPLY, P/N 153-0009 FLASHTUBE, DEFECTIVE WIRING OR DEFECTIVE ON/OFF SWITCH.
- 5. THE EQUIPMENT AS INSTALLED SHOULD BE INSPECTED FOR SECURITY OF INSTALLATION AND PROPER OPERATION DURING AIRCRAFT ANNUAL INSPECTION. THE SYSTEM SHOULD BE CHECKED FOR OPERATION PRIOR TO EACH FLIGHT OF THE AIRCRAFT.
- 6. TROUBLESHOOTING AND MAINTAINING THIS STROBE SYSTEM WILL CONSIST OF ELEMENTARY ELECTRICAL CHECKS AND SUBSTITUTION OF SUSPECTED DEFECTIVE COMPONENTS.
- 7-11. NOT APPLICABLE
- 12. SPECIAL TOOLS ARE REQUIRED FOR REMOVAL OR INSTALLATION OF ANY COMPONENTS IN THIS INSTALLATION.
- 13. NOT APPLICABLE.
- 14. NO ADDITIONAL OVERHAUL TIME LIMITATIONS.
- 15. NOT APPLICABLE.
- 16. TO REVISE THE INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, A LETTER MUST BE SUBMITTED TO THE LOCAL FSDO WITH A COPY OF THE REVISED FAA FORM 337 AND REVISED ICA.

1 5/25/01 DATE
-4, sel N. Acylon

IA587541366



U.S. Department of Transportation Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No.2120-0020

For FAA Use Only

Office Identification F500-50-25

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C.1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

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1	Aircraft	Piper								28-18					
	, in ordin	Serial No. 28-4402						Nationality and Registration Mark N5119L							
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2	Owner	Rose David							1	5 Tate		-			
2.	Owner			•								TN 38024			
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

s. Description of Work Accomplished f more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
Installed Bracket Air Filter assembley P/N BA-104 in accordance with manufacturer's instructions STC #SA693CE.
Removed SI-TEX model 787CV Loran from avionic stack and Loran antenna from upper fuselage.
Weight and Balance Data revised and enter into aircraft records.

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☐ Additional Sheets Are Attached

US Departme

US Department of Transportation Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

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Office Identification

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	Make Piper			Model PA 28	-180		<u>.</u>	•
1. Aircraft	Serial No. 28-4402	Nationality and Registration Mark N5119L						
	Name (As shown on registration cer	tificate)	e, ·	Address (As shown on regis	tration ce	ertificate)	
2. Owner	5119L AVIATION INC	i	· ,		Nottingham CITY, TN			552
		;	3. For FAA Use O	nly				
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			4. Unit Identificat	ion		· · · · · ·	5. Type	
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Unit	Make		Model		Serial No.	· ·	nepail	Aiteration
AIRFRAME		As desçr	, ibed in Item 1 abo	ove)				
POWERPLANT	Lycoming	0	-360-A4	A .	F-11086-	ASE		*
PROPELLER		•						
	Туре	;.i.;'er .						
APPLIANCE	Manufacturer	 . t; `	•					
	<u> </u>	ii 6.	Conformity State	ement				
A. Agency's N	lame and Address	•	B. Kind of Agend	су		C. Cert	ificate No.	
Larry T	. Swor	*- 1	X U.S. Certificat			4109	26292 A	P
	, Box 116	,	Foreign Certif		inic	_		
	e, TN 38201	•	. Manufacturer	epan Station				
have bee	hat the repair and/or alteration made in made in accordance with the requi d herein is true and correct to the bes	rements	of Part 43 of the U	em 4 above : J.S. Federal	and described on t Aviation Regulati	he reverse ons and t	e or attachme hat the inforr	ents hereto nation
Date			Signature of Aut	horized Indi	vidual			
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Ins	A Fit. Standards Manufacturer	X	Inspection Author	Other (Specify)				•
	A Designee Repair Station		Person Approved Canada Airworthir	néss Group			······································	
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disscription of Work Accomplished

й more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Replaced existing Lycoming starter with SKY-TEC 12 volt starter model 149-12LS inaccordance with manufacturer's instructions. STC SE00218NY Weight and balance data revised.

RECEIVED

DEC 0 5 1997

MEMPHIS, TNI FSDO-25

☐ Additional Sheets Are Attached

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	ircraft	Make [Piper		. \$	Model Che	rokee 180			
`` ^	·	Serial No.	8-4402 .			National	lity and Registrat	ion Mark		
		Name (As show	n on registration ce	ertificate	·)	Address	(As shown on re	gistration c	ertificate)	•
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A. A	gency's	Name and Address			B. Kind of Agency			C. Certi	ficate No.	
M	unic	ourg Avioni Lpal Airpor	cs, Inc. t		U.S. Certificated Foreign Certificated					
D	yersl 	ourg; TN 3	8024		X Centificated Rep	air Station		SF4R	210M	
ם.		that the repair and/o een made in accorda ed herein is true and			it(s) identified in iten of Part 43 of the U.S snowledge.	a 4 above 6. Federal	and described on Aviation Regula	the reverse tions and th	or attachmen at the inform	nts hereto nation
Date					Signature of Autho	rized Indi	vidual	٦,		
	Febr	uary 26, 1	991		Jerrie W.	Davis	سیر نے	بر سا	com	^
- D	remant t	a the authority sive	· · · · · · · · · · · · · · · · · · ·		proval for Return To					
Ad			viation Administrati	ion and	v, the unit identified is XXAPPROVE	in item 4	EJECTED		ner prescrib	ed by the
BY		A Fit. Standards spector	Manufacturer		l_pection Authoriza	tion	Other (Specify	<i>y</i>		
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	2/26/		SF4R516M		Jerrie W.	Davi	s Dein	<u>. u</u> .	<u>'i ></u>	· .
FAA	Form 33	7 (12-88)								

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

	of Work Accomplished se is required, attach ac		dentily with aircraft nation	ality and registra	tion mark and date w	ork comple:==:.)
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					Creation Control	
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AC 43.	.13-1A, chapt	ter 11, sec	ction 2. paragr	aph 424.	429(b): AC 4	43.13-24.
chapte	r 2 paragrap	ph 21(a), 2	22, 23(a)(b), 2	27(a)(b)(c	:), chapter 🖰	3, paragra
37(a)((c).		•	•	t	
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