## Lee County Board Of County Commissioners Agenda Item Summary

Blue Sheet No. 20021407

### 1. REQUESTED MOTION:

ACTION REQUESTED: Authorize expenditures to the following vendors not to exceed \$361,853.00 toward down payment for purchase of an EC 145 Helicopter airframe construction. Expenditures include a final 5% down payment of \$185,950.00 to American Eurocopter Corporation toward the purchase of the airframe. The remaining balance of \$175,903.00 represents 10% of the purchase price of additional airframe options to be distributed in the following manner: A not to exceed amount of \$110,333.00 to American Ecurocopter and an estimated amount of \$65,570.00 to Metro Aviation.

WHY ACTION IS NECESSARY: Expenditures over \$100,000.00 must have Board approval, according to Section 9.4.1 of the Lee County Purchasing and Payment Procedures Manual.

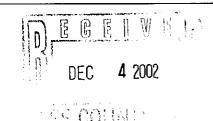
WHAT ACTION ACCOMPLISHES: Completes the reserve agreement for new helicopter purchase to augment the current Lee County EMS air ambulance unit by the year 2004.

2. DEPARTMENTAL CATEGORY:		3. <u>MEETING DATE</u> :	_
COMMISSION DISTRICT #:	C7A	12-17-2	002
4. AGENDA:	5. REQUIREMENT/PURPOSE:	6. REQUESTOR OF INFO	RMATION:
TODAY.	(Specify)		
X CONSENT	STATUTE	A. COMMISSIONER	
ADMINISTRATIVE	ORDINANCE	B. DEPARTMENT	- D 11: 40 . C (-)
APPEALS	X ADMIN. CODE AC4-1	C. DIVISION	Hubic Safety
PUBLIC	OTHER	BY: John D. Wilson	
WALK ON		For	
TIME REQUIRED: 7. BACKGROUND: At the June 2002 N	   Management and Planning Meeting, sta	ff received direction to bring this item	n before the Board
for consideration. The board approved the	purchase of a new helicopter air ambi	ilance on August 6, 2002 on blue she	et (No. 20020821).
To recap the basis for this request, the airf	rame for the additional helicopter will	not be available until the year 2004.	This time frame
puts the current helicopter into its 14 <sup>th</sup> year of the ship's basic cost (\$185,950.00) to re	r of service. To acquire the proposed I	(C) 45 Helicopter called for and up it	ont payment of 570
of the ship's basic cost (\$185,950.00) to ref followed by an additional \$361,853.00 rep	eserve an airmame. The initial down population and additional 5% for the ha	sic airframe and 10% of the purchase	d options. This was
budgeted for and approved in fiscal year 2	002-03. The remainder of the paymen	t will be due when the helicopter is d	elivered.
oudgeted for and approved in issue year -			
	7100		
Account String: KF5260100100.506430	7100		
8. MANAGEMENT RECOMMENDA	TIONS:		
	O DECOMMENDED ADDR	OVAL	
	9. <u>RECOMMENDED APPR</u>	OVAL:	
B C	D E	F Budget Services	G County Manager
Department Purchasing Human Or Contracts Resources	Other County	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
L W ALAGE	OA	OM Risk GC	
M. MC ST VIOLO	/ VIII RM	181 DE 181	/ <u>}</u>
May 12 1	12/3/07 1/02	3/5 12502 1260	
]		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IVY
10. COMMISSION ACTION:		RECEIVED BY AM	
		COUNTY ADMIN. AVV	
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DENI	ED RRED		
ОТНІ		FORWARDED TO:	
		12/6 200	



AEC/02L/MSD-046 December 3, 2002

Chris Hansen, EMS Chief Lee County Division of Public Safety 14752 Six Mile Cypress Parkway Fort Myers, FL 33912



Dear Mr. Hansen:

Please find enclosed Amendment #1 to Purchase Agreement V-3693 adding the completion of your new EC145. Please have both copies signed in the appropriate place and return to my office for completion. I will then forward you your executed copy.

If you have any questions, please do not hesitate to contact Mark McAfee at (941) 355-0723.

Best regards,

Christie White

Marketing Sales Contract Administrator



2701 forum drive, grand prairie, texas 75052-7099

## PURCHASE AGREEMENT AMENDMENT

Customer: Model: EC145 Date Prepared: 03 December 2002

Lee County Board of County S/N: Page One of Two

Commissioners

PO Box 398 Reg. # N911LZ Contract Number: V-3693

Fort Myers, FL 33902 Amendment Number: #1

		nal Purchase Agreement	Unit Price	3,719,00 <b>Total</b>
em No.	Quantity	Description	Unit Price	lotai
		AIRFRAME OPTIONAL EQUIPMENT:		
	B-3111-100-00	7" Instrument Panel w/Pilot & Copilot Glareshield	7,835	
	B-6701-001-00	Dual Controls – Copilot Collective w/Manual Engine Back-up and Additional	26,619	
		Switches		
	B-6721-001-00	Copilot Controls Cover	968	
	B-2104-100-00	Bleed Air Heating	41,556	
	B-2576-003-00	Ventilation for Avionic Deck	19,740	
	B-2433-005-00	40Ah Battery, 24V in lieu of Standard Battery	4,165	
	B-2577-001-00	Battery Relocation	48,848	
	B-7924-001-00	Fuzz Burner – Engines	7,150	
	B-8512-001-11	Hoist, Fixed Provisions Only, RH Side	54,618	
	B-8511-005-10	Cargo Hook, Fixed Provisions Only	14,548	
	B-8511-002-10	Cargo Hook Mirror, Fixed Provisions	5,428	
	B-2524-003-10	Cockpit Cabin Separation Curtain (NVG specific Version) – Fixed Provisions	2,100	
	B-2524-003-20	Cockpit Cabin Separation Curtain (NVG specific Version) - Removable Provisions	3,328	
	B-7165-002-00	Engine Compressor Washing Device	7,516 779	
	B-5211-001-00	Copilot Door Sliding Window	4,840	
	B-2514-003-01	Map Case Integrated in Copilot Door	4,640 3,386	
	B-5633-001-10	Clam Shell Door Window – LH		
	B-5633-001-20	Clam Shell Door Window – RH	3,386 1,156	
	B-2514-002-00	Tinted Sunshades for Cockpit Windshield, Roof Section, Pilot & Copilot, Complete	649	
	B-2524-030-10	IFR Training Screen, Fixed Provisions	2,395	
	B-2524-030-20 B-5213-001-11	IFR Training Screen, Removable Provisions	5,935	
	B-3111-001-10	Sliding Door Fastener Intermediate & Max RH Side	590	
	B-2321-005-10	Map Case on I-Panel Glareshield	184,560	
	B-8541-001-10	M'ARMS Usage Monitoring System (UMS)	31,527	
	B-8541-001-20	Wire Strike Protection System – Fixed Provisions	16,944	
	D-0541-001-20	Wire Strike Protection System – Removable Provisions	10,044	
		(Provisions may be deleted by Buyer with no penalty by notification to AEC no		
	D 0504 000 00	later than April 1, 2003.)	INCL	
	B-2581-002-00	Comfort Improvement Kit	3,488	
		Pilot/Copilot Door Locking Device LH/RH		
		(P/N B520M4023051 and/or B520M4022051)		504,05
		Subtotal, Airframe Optional Equipment		
		OPTIONAL AVIONICS EQPT. SP IFR NON-NVG COMPATIBLE: SOLUTION C		470,82
		Flight Control Display Module – 1 (FCDM)		
		Flight Control Display Module – 2 (FCDM)		
		Flight Control Display System – 1 (FCDS)		
		(2) X SMD 45 H (PFD, ND), (2) X ICP/RCU		
	B-2212-001-00	Automatic Flight Control System (AFCS)		
		, , ,		
		ADDITIONAL AVIONICS EQUIPMENT:		40.57
		ADDITIONAL AVIONICS EQUIT MENT.		19,57
	B-3443-010-00	VRU	19,570	
,				
		SEE PAGE TWO FOR TOTAL PRICE FOR ADDED ITEMS		994,45



## **PURCHASE AGREEMENT**

2701 forum	i drive, grand prair	e, texas 75052-7099			AME	ENDMENT
Custome	r:		Model: EC145	Date Prepared: 03	December 20	02
Lee Coun Commiss	ty Board of Coι ioners	inty	S/N:	Page Two of Two		
PO Box 3	98		Reg. # N911LZ	Contract Number:	V-3693	
Fort Myer	s, FL 33902			Amendment Numb	per: #1	
ADD to tot	tal price on origin	al Purchase Agreeme	ent			Cont'd
Item No.	Quantity		Description	u-	Unit Price	Total
		REQUIRED IFR EQUI	***************************************			84,953
	B-2212-300-00	MEGHAS Sensor Kit	· · · · · · · · · · · · · · · · · · ·		84,953	
j	22.2 000 00		**************************************		04,955	
		ADDITIONAL PILOT	IRAINING:			23,929
			chool at AEC for an additional thi ined in Customer's aircraft for a t			
		TOTAL PRICE	FOR ADDED ITEMS			1,103,334
		original Purchase A				_
Item No	. Quantity		Description		Unit Price	Total
Delivery D	Date:	TOTAL PRICE FO	R DELETED ITEMS			-0-
TBD		Net increase (dec	rease) to total price			1,103,334
Type of Pa	ayment: COD	Method of Deliver	y: FAF Grand Prairie, TX		New Total Price	4,822,334
					Deposits: 1 <sup>st</sup> Deposit Rcv'd 9/6/02	(185,950)
			price will be firm until Buyer ument by: <u>December 31, 200</u>		2 <sup>nd</sup> Deposit Options – Due 4/1/03	(110,333)
					3 <sup>rd</sup> Deposit Airframe – Due 4/1/03	(185,950)
			ms and conditions set		Balance Due	\$4,340,101
A		e attachment hereo	f except as modified hereon.			
This	and Confirmed da	y of	Date Accepted:	Buyer: Lee County Commission	y Board of Cou	unty
A	merican Euroco	opter Corporation	Ordered by:	Commission		
Ву			Title:	<del></del>		
- <del>-</del>	Authorized Re	presentative				

Distribution: White-Accounting Copy, Green-Customer Copy



2701 forum drive, grand prairie, texas 75052-7099

PURCHASE AGREEMENT AMENDMENT

Customer:

Lee County Board of County

Commissioners

PO Box 398

Fort Myers, FL 33902

Model: EC145

S/N:

Date Prepared: 03 December 2002

Page One of Two

Reg. # N911LZ Contract Number: V-3693

Amendment Number: #1

	3, 1 L 33302	Amendment Numbe	ι. π ι	T :
em No.	al price on origin	nal Purchase Agreement	Unit Price	3,719,000
em No.	Quantity	Description	Unit Price	Total
	B-3111-100-00 B-6701-001-00 B-6701-001-00 B-2104-100-00 B-2576-003-00 B-2433-005-00 B-2577-001-00 B-7924-001-00 B-8511-005-10 B-8511-002-10 B-2524-003-20 B-7165-002-00 B-5211-001-00 B-2514-003-01 B-5633-001-10 B-5633-001-10 B-5633-001-10 B-5244-030-10 B-2524-030-10 B-2524-030-10 B-2524-030-10 B-2524-030-10 B-2524-030-20 B-5213-001-11 B-3111-001-10 B-3221-005-10 B-8541-001-20 B-2581-002-00	AIRFRAME OPTIONAL EQUIPMENT:  7" Instrument Panel w/Pilot & Copilot Glareshield Dual Controls – Copilot Collective w/Manual Engine Back-up and Additional Switches Copilot Controls Cover Bleed Air Heating Ventilation for Avionic Deck 40Ah Battery, 24V in lieu of Standard Battery Battery Relocation Fuzz Burner – Engines Hoist, Fixed Provisions Only, RH Side Cargo Hook, Fixed Provisions Only Cargo Hook Mirror, Fixed Provisions Cockpit Cabin Separation Curtain (NVG specific Version) – Fixed Provisions Cockpit Cabin Separation Curtain (NVG specific Version) – Removable Provisions Engine Compressor Washing Device Copilot Door Sliding Window Map Case Integrated in Copilot Door Clam Shell Door Window – LH Clam Shell Door Window – RH Tinted Sunshades for Cockpit Windshield, Roof Section, Pilot & Copilot, Complete IFR Training Screen, Fixed Provisions Sliding Door Fastener Intermediate & Max RH Side Map Case on I-Panel Glareshield M'ARMS Usage Monitoring System (UMS) Wire Strike Protection System – Fixed Provisions (Provisions may be deleted by Buyer with no penalty by notification to AEC no later than April 1, 2003.) Comfort Improvement Kit Pilot/Copilot Door Locking Device LH/RH (P/N B520M4023051 and/or B520M4022051)	7,835 26,619 968 41,556 19,740 4,165 48,848 7,150 54,618 14,548 5,428 2,100 3,328 7,516 779 4,840 3,386 3,386 1,156 649 2,395 5,935 590 184,560 31,527 16,944 INCL 3,488	
		Subtotal, Airframe Optional Equipment  OPTIONAL AVIONICS EQPT. SP IFR NON-NVG COMPATIBLE: SOLUTION C		504,054 470,828
	B-2212-001-00	Flight Control Display Module – 1 (FCDM) Flight Control Display Module – 2 (FCDM) Flight Control Display System – 1 (FCDS) (2) X SMD 45 H (PFD, ND), (2) X ICP/RCU Automatic Flight Control System (AFCS)		
	B-3443-010-00	ADDITIONAL AVIONICS EQUIPMENT:  VRU	19,570	19,570
		SEE PAGE TWO FOR TOTAL PRICE FOR ADDED ITEMS	· · · · · · · · · · · · · · · · · · ·	994,452



## **PURCHASE AGREEMENT**

2701 forum	i drive, grand prair	ie, texas /5052-7099	1	1			NDMENT
Custome	r:		Model: EC145	Date F	Prepared: 03	December 20	02
Lee Coun Commiss	ity Board of Coเ sioners	ınty	S/N:	Page '	Two of Two		
PO Box 3	98		Reg. # N911LZ	Contra	act Number:	V-3693	
Fort Myer	rs, FL 33902			Amen	dment Numb	er: #1	
ADD to to	tal price on origin	al Purchase Agreeme	ent			<u> </u>	Cont'd
Item No.	Quantity		Description			Unit Price	Total
		REQUIRED IFR EQUI	IPMENT:				84,953
	B-2212-300-00	MEGHAS Sensor Kit			,	84,953	
		ADDITIONAL PILOT	TRAINING:				23,929
			chool at AEC for an additiona nined in Customer's aircraft fo				
		TOTAL PRICE	FOR ADDED ITEMS				1,103,334
DELETE 4		inininal D inininal D.					1
Item No		n original Purchase A	greement Description			Unit Price	Total
Delivery D	)ate:		R DELETED ITEMS				-0-
TBD		Net increase (dec	rease) to total price				1,103,334
Type of Pa	ayment: COD	Method of Deliver	ry: FAF Grand Prairie, TX	(	i i	New Total Price	4,822,334
				<u> </u>		Deposits: 1 <sup>st</sup> Deposit Rcv'd 9/6/02	(185,950)
			price will be firm until Bu ument by: <i><u>December 31, 2</u></i>			2 <sup>nd</sup> Deposit Options – Due 4/1/03	(110,333)
						3 <sup>rd</sup> Deposit Airframe – Due 4/1/03	(185,950)
			rms and conditions set			Balance Due	\$4,340,101
Accented	and Confirmed		f except as modified here Date Accepted:	eon.	Buyer:		
		ay of	-			/ Board of Cou	unty
A	merican Euroc	opter Corporation	Ordered by:				
Ву			Title:				
	Authorized Re	presentative					

Distribution: White-Accounting Copy, Green-Customer Copy

ACTION REQUESTED: A	uthorize e	xpenditur	es not to exc	eed \$185,	,950.00 to	reserve a	n EC145 H	elicopter airframe
construction. Appro-	ve transfer	from Gen	ieral Fund R	eserves fo	r this exp	enditure		
WHY ACTION IS NECES	SARY: Exp	enditures	over \$50,00	0 must ha	ve Board	approval,	according	to Section 9.4.1 of
the Lee County Purchasi	ng and Pa	yment Pro	cedures Mar	ıual.				
WHAT ACTION ACCOM	of tettire.	Dagaraga d	n airtrama f	on a nour 1	haliaantar	. 40	- 41- a	4 I as Cassata
EMS air ambulance unit			ui aii ii aiile i	or a new i	nencopiei	to replace	e ine curren	it Lee County
Bivis air airio araico airic	by the yea	2001.						
2. DEPARTMENTAL CAT COMMISSION DISTRIC	EGORY: 7 CT #:				3.	MEETING	DATE: Au	gust 6, 2002
		5. REQ (Spec	UIREMENT/I	PURPOSE	6.	REQUEST	OR OF INFO	DRMATION:
CONSENT			TUTE		A.	COMMISS	SIONER	
X ADMINISTRATIV	E		DINANCE			DEPARTM		
APPEALS			MIN. CODE	AC 4-1	C.	DIVISION		ublic Safety
PUBLIC WALK ON		OTH	iek _			BY: Joh	n D. Wilson	4.10
TIME REQUIRED	:						(	,
7. <b>BACKGROUND:</b> At the item before the Board for	e June 200							
of a new air ambulance of purchase, and the need for bulances. These responsidering purchasing a To recap the basis for thi 2004. This timeframe purchasine which would require the followed by an additional remainder of the paymen Attachment A: Response Attachment B: Need for 8. MANAGEMENT RECORD	or addition onses are con additions on additions of the curran up from county to fall \$361,853 to would be to issues the to issues the curran up from the curran up f	al pilots if ontained is all air ambuted air frament helicont payment furnish reconduction and the where the content of the content air	The County n Attachmer ulance unit.  The for the adopter into its of five peroquested \$185 ant, which not the helicopthe June 3, 20	ditional he dition	to operate chment Edicopter of service air ship' expenditure budgeted vered.	would not To acques basic cose in this fill in the next	be available to reserve to reserv	d proposed air sons for e until the year osed EC 145 e an airframe, This would be ar. The
o. MANAGEMENT RECO	VIVIENDA		ECOMMENI			or consider	ieration.	
A (1) B	C	D	E	<u> </u>		F	ſ	G
Department Purchasing Director or Contracts	Human Resources	Other	County Attorney		Budge	t Services		County Manager
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Lee County Board Of County Commissioners

Agenda Item Summary

1. REQUESTED MOTION:

Blue Sheet No. 20020821

#### Attachment A

## Response to Issues Raised At the June 3, 2002 Management & Planning Committee Meeting Regarding Acquisition of an Additional EMS Helicopter

- Time Sharing of EMS Air Ambulance Units: Collier County Emergency Services would like to use the
  current EMS air ambulance unit as a backup when their helicopter is scheduled for maintenance service.
  They have also expressed a willingness to share in the operating expenses of the current air ship to help
  offset operating costs to Lee County of maintaining two aircraft.
- 2. Revenue Generated by Additional Air Ambulance Unit: The County is in the initial stage of applying for FAR 135 status from the Federal Aviation Agency (FAA). This status would allow the County to use the National Ambulance Fee Schedule to recoup the cost of the additional airship through a fee rate structure that is over and above what we currently charge for air ship operations. These higher rates would be within approved Medicare reimbursement rates for reasonable service, be phased over a four-year period, and would recoup purchase costs for the additional air ambulance unit by year 13 of its operation.
- 3. Grant Availability to Offset Purchase: The following grant programs could help offset the cost of the additional air ambulance unit:
- a. <u>EMS Trust Fund County Award Monies:</u> Amount: Up to \$100,000. This funding normally is shared with local fire service agencies providing ALS non-transport services. It could be used to offset this cost because of the enhancement to EMS service. This funding source is different than the 50/50 matching grant used to help purchase the current air ship.
- b. Emergency Management Preparedness Assistance Trust Fund, Competitive Grant. Amount: Up to \$300,000. This grant program provides funding to projects that further state and local emergency management objectives as designated by the State of Florida in the Notice of Fund Availability published annually. Given the current focus of Domestic/Homeland Security and that Lee County EMS is under contract with the State as a first tier regional response team asset, these funds may be available to offset a portion of the purchase costs.
- c. <u>Homeland Security Bill Funding:</u> Amount: Unknown. The proposed federal funding in response to the September 11 terrorist attacks may be a potential source again because of Lee County EMS's role as a regional domestic security disaster response team. Justification could be based on the increased payload capability, faster response time, and the additional capability of second ship in response to a terrorism incident.
- 4. Need for Additional Pilots: Additional pilots would not be needed to run the new air ship. The same pilot rotation program would be used. If the decision to use run both airships at the same time (i.e. during the tourist season to assist in call response), the EMS Chief Pilot position could operate the other ship subject to rest period regulations currently in place.

## Attachment B Need For a New Helicopter

The following forms the rationale for looking a purchasing a new helicopter for provide air ambulance service for 3 County:

## Low availability compared to industry standards:

Present as well as future availability of current air ship is expected to continue to slowly decrease. This is because our present ship is aging and will require additional maintenance. The industry standard for availability is generally considered to be above 95% with 98% (approximately 1 week of down time on the aircraft), being a desirable target. Our availability has never exceeded 90% and last year we achieved only 82%. If a new aircraft could be added to our existing fleet, industry standards could easily be achieved. Low availability also affects present as well as future ability to handle critical call volume. In our case, critical call volume is defined as those calls where transport to the hospital resulted in a significant timesavings not afforded by other means. At present we average about 1 time sensitive critical call per day. Therefore, 18% availability equates to a loss of approximately 60 critical transports per year.

### **Current medical standards:**

Lack of space has always been a problem in properly attending to a patient. Thirteen years ago, the acquisition of our present aircraft was considered a vast improvement over the aircraft then being used. The picture presents itself no differently now than it was then. Higher medical standards are now being applied in a pre-hospital setting. The result is greater demands being placed on the medic now and in the future. This requires re-evaluation of the work environment to see if both present and future standards could be met. Areas of concern were:

• An eventual commitment to a two-medic crew (considered standard in most aero medical transport systems)
The ability to highly specialized transports of critical patients both now and in the future.

#### **Maintaining market share:**

Presently Lee County provides mutual aid to surrounding counties as part of our agreements with them. They also rely on helicopter mutual aid from other services. We need to insure that our ability to assist those counties remains at the same level presently available from those other sources. In the past this concern was not as important as it is going to be in the future. In attempting to reduce the costs to our operations by assuming the responsibility of an operational change to FAR 135, we gain the potential revenue afforded by these flights. Whether it is critical inter-facility call or a critical field transport, the ability to handle these calls is going to be an essential part of our future economic well-being.

#### Type of aircraft:

Discussion over this issue resolved around the same points as arose during the purchase of the aircraft we currently operate. Very few aircraft effectively meet the needs of the EMS industry. This is essentially a flying box with as small an overall footprint as possible, yet containing the maximum room available for use. This limited our search to basically three aircraft. And, as long as the initial cost remained below the lease vs. purchase threshold for the period of ownership, the decision become one based on operational needs. The choice of the EC 145 as a final recommendation followed close examination of the issues listed above.

# MANAGEMENT & PLANNING COMMITTEE AGENDA REQUEST FORM COMMISSION DISTRICT #ALL

INITIATED BY: John Wilson, Division of Public Safety

REQUESTED BY:

TITLE OF ITEM FOR THE AGENDA: Acquisition of an Additional EMS Helicopter

- 1. DESCRIPTION AND OBJECTIVE OF THE ISSUE Lee County Public Safety/EMS has been examining the need for an additional helicopter to maintain air ambulance service levels. The need for evaluation is based on the current air ship's low availability to industry standards, changing medical standards since the purchase of the current ship 12 years ago, maintaining a segment of the market to assure cost recovery for services provided, and the type of aircraft available. These factors are discussed in more detail in Attachment A. EMS staff recommendation is to look at purchasing an airship that could carry two patients and two paramedics.
- 2. PROPOSED POLICY, PROCEDURE OR PLAN OF ACTION
  The proposed solution is to acquire an additional air ship and use the current ship as a backup when the newer ship is in for scheduled maintenance or during the busy winter season. In ten years time, the new ship would then go to backup status, the current ship would be sold, and an additional ship would be purchased.

The air frame for the additional helicopter would not be available until the year 2004, which would put our current helicopter into its 14th year of service. To acquire the proposed helicopter would call for a purchase or lease up front payment of five percent of the ship's basic cost to reserve an airframe for construction. To meet the 2004 deadline would require the county to put up the five percent cost (\$185,950) in this fiscal year, followed by another \$361,853 in the next fiscal year, with the remainder due when the helicopter is delivered.

### 3. OPTIONS (List advantages/Disadvantages of Each Option Listed)

- 1. Furnish the five percent up front cost this fiscal year. Advantages: assures reservation of a limited number of illocated airframes by the proposed year of purchase, speeds up the time frame to gain the service benefits discussed in Attachment A.. Disadvantages: Cost is not currently budgeted and would have to come from reserves or some other revenue source.
- 2. Provide for five percent up front cost in next year's EMS budget. Advantages: Does not require taking funds from reserves or other revenue sources this year, delays the added cost for purchase until year 2005. Disadvantages: Delay may result in the county not being able to purchase the recommended airship due to the limited number of airframes available in the next two years, delays the benefits resulting from the services furnished by the new helicopter.
- 3. Do not purchase a new helicopter and continue using current ship until its useful life is over (20 years):

  Advantage: Delays cost of purchasing a new airship for six years. Disadvantages: continued reduced service availability due to helicopter's age and maintenance schedule, increased maintenance costs, increased difficulty in maintaining market share, expected higher cost to purchase the recommended airship by delaying acquisition.

### 4. FINANCIAL IMPACTS/FUNDING SOURCE

Proposed total cost of recommended helicopter is \$5.478 million, of which \$3.719 million is for the airship and \$1.759 million is for the cost to outfit it as an air ambulance. Funding sources for the ship could come from general revenue, revenue received from EMS bill collections or a combination of these revenue sources. Cost options to either purchase or lease the new ship are contained in Attachment B.

### 5. STAFF RECOMMENDATIONS, AND JUSTIFICATION FOR RECOMMENDATIONS

Staff recommends that the Board purchase the additional helicopter for the reasons stated. Staff also requests bringing the initial up front cost to the Board for funding this year.

6. Mandated: Y N BY WHAT AUTHORITY?

DEPARTMENT DIRECTOR SIGNATURE

COUNTY ADMINISTRATOR
SIGNATURE

**MEETING DATE** 

TIME REQUIRED

MA.

June 3, 2002

16 Minutes

Je a Welan

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#### Attachment A

#### Need for a New Helicopter

The following forms the rationale for pursuing a new hellcopter to provide air ambulance service for Lee County.

### Low availability compared to industry standards:

Present as well as future availability of current helicopter is expected to continue to slowly decrease. This is primarily due to the fact that our present ship is aging and will require additional maintenance. The industry standard for availability is generally considered to be above 95% with 98% (approximately 1 week of down time on the aircraft), being a desirable target. Our availability has never exceeded 90% and last year we only achieved 82%. If a new aircraft could be added to our existing fleet, industry standards could easily be achieved. Low availability also affects present as well as future ability to handle critical call volume. In our case critical call volume is defined as those calls where transport to the hospital resulted in a significant time savings not afforded by other means. At present we average about 1 time sensitive critical call per day. Therefore, an18% unavailability equates to a loss of approximately 60 critical transports per year.

#### Current medical standards:

Lack of space has always been a problem in properly attending to a patient. 13 years ago the acquisition of our present aircraft was considered a vast improvement over the aircraft then being used. The picture presents itself no differently now than it was then. Higher medical standards are now being applied in a pre-hospital setting. The result is greater demands being placed on the medic now and in the future. This requires re-evaluation of the work environment to see if both present and future standards could be met. Areas of concern were:

- An eventual commitment to a two medic crew (considered standard in most aeromedical transport systems)
- The ability to do highly specialized transports of critical patients both now and in the future.

#### Maintaining Market Share:

Presently Lee County provides mutual aid to surrounding counties as part of our agreements with them. They also rely on helicopter mutual aid from other sources. We need to insure that our ability to assist those counties remains at the same level presently available from those other sources. In the past this concern was not as important as it is going to be in the future. In attempting to reduce the costs to our operation by assuming the responsibility of an operational change to FAR 135, we gain the potential revenue afforded by these flights. Whether it is a critical inter-facility call or a critical field transport, the ability to handle these calls is going to be an essential part of our economic well being in the future. Additionally, the availability of two aircraft will minimize impacts on out of county transports vs. in county needs.

#### Type of Aircraft:

Discussion over this issue revolved around the same points as arose during the purchase of the aircraft we presently operate. Very few aircraft effectively meet the needs of the EMS industry. This is essentially a flying box with as small an overall footprint as possible, yet containing the maximum room available for use. This limited our search to basically 3 aircraft. And, as long as the initial cost remained below the lease vs. purchase threshold for the period of ownership, the decision became one based on operational needs. The choice of the EC145 as a final recommendation followed close examination of the issues listed above.

#### Attachment B

## Analysis of Cost to Purchase or Lease New EMS Helicopter

The analysis contains the following information

Schedule I: A comparison of the costs to purchase a new air ship, lease it or maintain the current air ship operation. The lease is a ten year operational one @ 12%. A municipal lease would add an additional \$50,000 in costs. It also includes the amount in annual billable revenue that would be used to help in recovering the cost based on going to the FAR 135 schedule. Ten years are shown on the schedule, with years 11- 20 using the same numbers as year 10.

Schedule II: Assumption schedule used to derive the numbers to do the lease buy analysis on the recommended airship for acquisition: an EC-145 helicopter. Included on this schedule are assumptions on the expected annual number air transports based on historical population trends, the net cost recovery per transport, CPI inflation, utility inflation, fuel costs per gallon, direct operating costs for both the current ship and the new ship, hourly flight time per transport, projected flight time, fuel comsumption per flight hour for both the current and the new ship, insurance rate % of the ship's hull value, insurance costs, billing and collection fee percentages, projected fee increase and the residual value of the air frame at year ten.

Schedule III: The table lists the assumptions used to derive the annual billable revenue listed on Schedule I.

Schedule IV: Return on Investment tables based on non-discounted cash flows and discount rates ranging from 5% to 9%.

'6 Year Cashilow Pro Forma sase Buy Analysis of EC146 Schedule I

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#### Return on Investment

Schedule IV.a

Non Discounted Cashflows

		10 Year	20 Year
NPV Operating Lease (Discounted) Net Cost	\$	(4,213,972) \$	(7,970,233)
NPV Purchase (Discounted) Net Cost	\$	1,011,028 \$	3,854,767
Costs(Savings) Acquisition Over Operating Lease	Ś	(5,225,000) \$	(11,825,000)
NPV on Status Quo Model (Maintain BO-105)	\$	(1,376,858) \$	(3,343,926)
Cost(Savings) of Acquisition Over Status Quo	Š	(2,387,895) \$	(7,198,693)

#### Return on Investment

Schedule IV.b

Discount Rate=6%

Discount Nate-070	· <del></del>	10 Year	20 Year
NPV Operating Lease (Discounted) Net Cost		\$3,133,814	\$4,677,575
NPV Purchase (Discounted) Net Cost		\$1,161,457	\$1,009,911
Cost(Savings) Acquisition Over Operating Lease		(\$1,972,357)	(\$3,687,663)
NPV on Status Quo Model (Maintain 80-105)		\$982,237	\$1,790,668
Cost(Savings) of Acquisition Over Status Quo	\$	179,220 \$	(780,755)

Pay Back Period on Aircraft Acquisition

20,95 Years

## Return on Investment

Schedule IV.c

Discount Rate=7%

	10 Year	20 Year
NPV Operating Lease (Discounted) Net Cost	\$2,995,400	\$4,336,548
NPV Purchase (Discounted) Net Cost	\$1,403,082	\$1,418,707
Cost(Savings) Acquisition Over Operating Lease	(\$1,592,318	(\$2,917,841)
NPV on Status Que Model (Maintain 80-105)	\$932,861	\$1,635,186
Cost(Savings) of Acquisition Over Status Quo	\$ 470,222	\$ (216,479)

Pay Back Period on Aircraft Acquisition

20.95 Years

## Return on Investment

Schedule IV.d

Discount Rate=8%

	 0 Year	20 Year
NPV Operating Lease (Discounted) Net Cost	\$2,866,268	\$4,033,738
NPV Purchase (Discounted) Net Cost	\$1,619,533	\$1,761,342
Cost(Sayings) Acquisition Over Operating Lease	(\$1,246,734)	(\$2,272,396)
NPV on Stalus Quo Model (Maintain BO-105)	 \$887,087	\$1,498,462
Cost(Savings) of Acquisition Over Status Quo	\$ 732,446 \$	262,880

Pay Back Period on Aircraft Acquisition

20.95 Years

#### Return on Investment

Schedule IV.e

Discount Rate=9%

 10 Year	Z0 Year
 \$2,745,648	\$3,763,928
\$1,813,421	\$2,048,932
 (\$932,227)	(\$1,714,996)
\$844,602	\$1,377,849
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## Return on Investment Schedule IV.b Discount Rate=5%

5%

	10 Year	15 Year	20 Year
NPV Operating Lease (Discounted) Net Cost	 \$3,282,360	\$4,280,745	\$5,063,006
NPV Purchase (Discounted) Net Cost	\$891,718	\$684,070	<b>\$52</b> 1,373
Cost(Savings) Acquisition Over Operating Lease	 (\$2,390,642)	(\$3,596,675)	(\$4,541,633)
NPV on Status Quo Model (Maintain BO-105)	 \$1,035,568	\$1,558,397	\$1,968,048
Cost(Savings) of Acquisition Over Status Quo	\$ (143,851) \$	(874,327) \$	(1,446,675)

Pay Back Period on Aircraft Acquisition

20,95 Years

0 Year Cashflow Pro Forma	Lease Buy Analysis of EC145	Schedule (
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AN First Code (Internetal)  AN Princemental Maintenance Supplies  AN AN Princemental Maintenance Supplies  A		Prejected Direct Operating Cost	Pasked in Out			2,621	6,073						9. 153.
At Part 135 FAR Start 10 Costs and court post and c		Fual Coals (Indemental)	O.A.K.X.E) Indirection has Years by USBV designs teneral Status Corit	\$ 5,098	\$ 5,623	8,198	6,827						12,155
Care-commental abort Cross (Loaded)	··	Part 135 FAR Start Up LOSIS incommental Maintenance Supplies incommental Instance Costs	izt Geode, Teck Naled is Cul Years By KGP?	1	\$ 10,300 \$ 206,956	10,609	10,927 228,085	11,255 \$ 239,126 \$	11,583 \$ 250,581 \$	11,941 \$ 282,217 \$	12,299 4 274,283 4	12,668 \$	13,546 259,513
AU FAR OI Charge Per Transport (Charge Per Transport)  AN FAR OI Charge Per Transport  AN Dreet Operating Codes  AN Train Decretion with BO-165  AN Train BO-165  AN Train Decretion with BO-165  AN Train BO-165  AN Train Decretion with BO-165  AN Train		Incemental Labor Costs (Loaded) Incemental Billing and Collections Costs Final Incemental Billing and Collections Costs Hypobasical Purchase (Sale) of Ar Frame (EC 145) Total Creft Outbow Hat Castelow	and the state of t			10,609 17,545 18,945,946 19,946 18,946 18,946 18,946	10, 307 40,512 363,153 963,153 (438,134)	11,255 4232 976,945 978,945 (430,214)		المالا		4 1 1 1	13,048 63,502 1,070,499 1,070,699 (375,526)
AW Drest Operating Cooks AW Drest Operating Cooks AN Total Direct Costs AN Total Direct	7		Danest Medest Charge parked by 4 parked			328	334 18/27	78.50	4 H	ì	1 4	1 1	341 99,981
AT 10th Internation with BO-10d (WAY) 3 (143,140) \$ (90,673) \$ (119,282) \$ (132,087) \$ (146,115) \$ (181,478) \$ (178,287) \$	7.00		FEXAD BIXEXIQ AMPAZO				5 148,721- 8 5 34,137 8			45,548 \$ 232,858 \$	202,283 \$ 50,144 \$ 252,427 \$	1 1	225,913 60,773 296,687
			(AV-AY)	3 (143,140)	(91,014)	(99,673)	1 1	(119,282)	(132,067)		1 11		(196,706)