

UNITED STATES OF AMERICA
NATIONAL TRANSPORTATION SAFETY BOARD

In the Matter of: INTERVIEW OF DAVID HOFFSTETTER	 Docket No.	
---	-----------------------	--

THIS INTERVIEW WAS HELD IN NEW SMYRNA, TENNESSEE ON
AUGUST 30, 2001.

NATIONAL COURT REPORTERS
SUITE 200, THE CENTRAL BUILDING
6 SIXTH STREET
BRISTOL, TENNESSEE 37620
(423) 989-3720

1 A P P E A R A N C E S

2 PRESENT FOR THE INTERVIEW:

3

4 FRANK McGILL

5 CLINT THAYER

6 LYLE K. STREETER

7 STEPHEN CARBONE

8 DAVID W. HOFFSTETTER

9 BRUCE ROBBINS

10 TODD GUNTHER

11 JOHN P. FALCONE

12

NATIONAL COURT REPORTERS
SUITE 200, THE CENTRAL BUILDING
6 SIXTH STREET
BRISTOL, TENNESSEE 37620
(423) 989-3720

1 INTERVIEW OF DAVID HOFFSTETTLER

2 AUGUST 30, 2001

3 Dave, would you mind starting us out by giving
4 us a little bit of background of your aviation experience?

5 MR. HOFFSTETTLER: Sure.

6 I have been in aviation for over thirty (30)
7 years. Went through Miami Dade Junior College in Florida.
8 Have an Associates Degree, and I worked for Eastern
9 Airlines as an apprentice mechanic. Went through their
10 apprentice mechanic program. Served four years in the
11 Navy and was a crew chief on P2's. When I went back to
12 Eastern I decided I could find my fame and fortune in
13 general aviation and moved to Albuquerque, New Mexico for
14 about a year and a half and start. I worked for a company
15 also in New Mexico called Black Hills Aviation that flies
16 B 17's and P 2's for the Forest Service. That was a real
17 thrilling experience, but not something you want to do for
18 a long time.

19 Then I went back to Miami. I worked for
20 Airlift, a DC 8 operator. When I worked for Eastern they
21 operated DC 8's also, back in the mid sixties. I worked
22 for National Airlines when PanAm took over. Left National
23 - or PanAm shortly after the takeover and worked for Batch
24 Air while I looked for other employment. They had a real

NATIONAL COURT REPORTERS
SUITE 200, THE CENTRAL BUILDING
6 SIXTH STREET
BRISTOL, TENNESSEE 37620
(423) 989-3720

1 nice program for three days on and three days off. And I
2 ended up coming up here to Capital Air and was Director of
3 Maintenance at Capital Air, and Vice President of
4 Maintenance at Capital for a while. When they went out of
5 business I've worked for several smaller carriers and
6 leasing companies since then. Including International Air
7 Leases, an aviation leasing group; Prestige Airways. And
8 I think that pretty well covers the majority of the
9 experience.

10 Everybody that I've worked for is out of
11 business.

12 Not entirely true.

13 BY MR. MCGILL:

14 Q And your duties and responsibilities here at
15 PTS?

16 A I'm the president/general manager. I am
17 responsible for the overall operations and insuring that
18 the company has the tools, equipment, material they need
19 to do the maintenance on aircraft. And also function as
20 the marketing person. The buck stops here.

21 Q Let's talk just a little bit about the workforce
22 since we wanted to better understand. From your
23 perspective.

 A There's a core
24 workforce that's still here that is left over from the old

1 Capital Air. Some of the inspectors, our chief inspector,
2 a few project managers, some of the mechanics, all worked
3 at Capital Air and they've been the nucleus of the
4 experience on DC 8's and aviation. We've recruited people
5 both locally and from the southeast area to come up here.
6 We've got some managers from Mobile. We've attracted a
7 few people from Atlanta, a few people from the Kentucky
8 area. We've drawn on Fort Campbell to recruit. We've got
9 a structures group that - our Director of Maintenance who
10 came out of the Structures Group came to us from Waco.
11 And he's got real extensive experience with DC 8's.

12 We've drawn some from Aero Structures and other areas
13 of the industry. We try to be opportunistic. If somebody
14 is furloughing and we're hiring, we're there. Our basic
15 philosophy is to have our own people, to work as best we
16 can to train them. Again, we work through the - train the
17 people or lose them, or don't train them and you keep them
18 forever. So, we may have a little bit higher turnover
19 than some. We've lost some to Emery. We've lost some to
20 Northwest and to American. But we continue to recruit
21 from schools. We've got a relationship with MTSU, and
22 with a place called Tennessee Technology Center. It's the
23 local A&P training program.

24 And we use those people part time, try to get them

1 into our routine as their learning the business. Most of
2 the people don't come to us until they have at least one
3 license, but we do have a few that are in school, that are
4 not licensed.

5 Q Well, let's talk about, just real quickly, the
6 non-licensed people. How you supervise them, how you
7 select them, how long you normally keep them, how do you
8 help them - whatever you can think about.

9 A We have - at different times, obviously, the
10 percentages of non-licensed people vary. The largest
11 group of non-licensed people are the Structures Group and
12 other repair stations have found creative ways to
13 circumvent the system by using repairmen certificates. I
14 think there was a repair station in Georgia that had
15 thirty (30) or forty (40) people that all had repairmen
16 certificates to do structure repair work. We only require
17 that of our - if we have a lead mechanic or one of the
18 more senior people, we may apply for a Structures
19 Repairman certificate.

20 Normally we watch them with licensed mechanics. Most
21 of the leads, all of the supervisors are licensed.

22 We have another smaller group we call utility
23 mechanics that do aircraft washing, parts runners.
24 They're basically people that we consider to be in

1 training to become mechanics. We try to keep that ratio
2 fairly low. I think we may have one of those type people
3 on a five-man or six-man crew. So, they're there to
4 assist. We draft from them instead of using cleaners to
5 clean aircraft parts, to help with the moving equipment
6 and generally provide support for the mechanics.

7 The theory being that we're a labor force and the
8 more time you can keep the best mechanics on the job the
9 better off we are. So, we don't - I don't like to see
10 them run into the stockroom, I'd rather see them have a
11 lesser skilled person going after parts to keep them busy.

12 Q Generally, I'm making these very general court
13 type questions, but you seem to be doing very well. What
14 is the role of a 145 facility and how would that compare
15 with an operator doing his own maintenance? Why do you
16 even have a 145? How does this work?

17 A If the 145 is organized properly, it becomes an
18 efficient tool for the operator to use to produce the
19 quality product with a reasonable amount of time without
20 them having to be involved with the direct management of a
21 workforce and all the associated problems. So, if you're
22 a relatively small company, and you don't have the
23 management skills and the right location, you don't the
24 hanger that's large enough to house your aircraft, you

1 would look for a 145 who, in an ideal world, would have
2 two or three key customers. And they would perform the
3 maintenance services for those key customers, and maintain
4 their aircraft to their standards.

5 I think it works fairly well. It allows the airline
6 to focus on their primary business and it allows the
7 Director of Maintenance to be more involved with his daily
8 operation for the airline. And obtain his heavy
9 maintenance requirements from an organization that may be
10 a little bit larger than what he could deal - he could
11 afford or could manage with his own group.

12 So, I think there's a good logical fit for repair
13 stations in the industry.

14 Q You've been in quite a few different airlines,
15 from your observation over the years, again, would be your
16 observation, but do you see a significant difference in
17 the quality of maintenance as performed, whether it's done
18 inhouse or is outsourced? And do you see a difference in
19 the amount of training, that was kind of another concern
20 we've talked about, of mechanics? Whether they're better
21 trained or better knowledgeable than an airline versus a
22 145 environment?

23 A I think that depends a lot on the individual
24 companies. I went through Eastern Airlines's apprentice

1 mechanic training program and we had six hours of
2 classroom every week. And that's a lot different than
3 what we do here. But it's a lot different than what
4 anybody else does that I've worked for. I worked for
5 National, they didn't have any kind of program similar to
6 that. And I've worked for repair stations that had very
7 little, if any, training. We try to focus on training
8 both technical and managerial.

9 We've had every manager in the building has been
10 there a management training program. All of our leads
11 have been through that program, and all of our mechanics
12 have been through a three-day course, so they know what -
13 how the managers are supposed to treat them. So, they can
14 kind of critique each other sometimes.

15 We do technical training by using outside companies,
16 Lloyd Edens - Lloyd Aviation, I think, is one of our
17 primary people that we've used in the past. We feel like
18 if we had an outside instructor in, based on the size of
19 the company, if we get the right person, he's doing DC 8
20 training, or DC 10 training, at several other locations
21 then he's got a better idea of what's going on out in the
22 industry than we do from where we're looking. So, we
23 count on these guys to bring in input from other customers
24 and other mechanics where they're trained in both

1 facilities.

2 I think our DC 8 instructor is one that Emery has
3 used in the past. I've kind of lost his name right now,
4 but --

5 We have the FAA come out and do some training with us
6 on SUPS. And whenever we buy new equipment we have the
7 manufacturer of that equipment - CPCP spray application,
8 we had people from Dianol come out and train us on
9 applications of their products very early in our program.

10 We're real proud that we've received the FAA Diamond
11 Award for training every year that we've been in
12 existence. We think there's an awful lot of airlines that
13 can't say that, whether it's they didn't take the time to
14 fill out the application or they really can't do it. You
15 know, I couldn't say, but I think that that's - that's
16 something that we're real proud of.

17 Q Talking about the FAA and your relationship with
18 the - with the principal here, --

19 A I like to think we have a good relationship with
20 the FAA. We started with - in an area that has been known
21 for problem companies. The predecessors in this building
22 have all gone out of business and struggled long financial
23 agony at the ends of their existence. And alienated most
24 of the local FAA work - FAA inspectors and the local area

1 businesses. We had some vendors that wouldn't ship to us
2 for a year and a half after we were in business because of
3 our address. So, we had those kinds of obstacles to
4 overcome. The FAA was - very closely scrutinized our
5 startup operation. I think we - they wouldn't let us
6 issue the repair station certificate until we had fifty
7 (950) employees, I believe. And that's fairly - fairly
8 stringent requirement. I know there's a lot of other
9 repair stations that have started with a lot less than
10 that.

11 I think we have tried very hard to do things to keep
12 them informed, and do things that they would be proud of,
13 or to manage the company in a manner that would give them
14 very little room to criticize us.

15 So, I think we have a good relationship and I think
16 that if you talk to our PMI or anybody in the local FAA
17 office they would tell you that we do a good job.

18 Q I went through earlier with Jim about the last
19 race that was done. It was actually started like two days
20 before the accident and run through the accident - two
21 days after the accident. We - I had already gone through
22 it and we discussed some, but anything that comes out of
23 this at all that you can remember? Or is there anything
24 you can - well, what's your general --

1 A I don't think there was any significant changes
2 to our processes or our procedures that were generated
3 because of the race. We did make some changes with
4 handling of customer material. And they're making a
5 couple of revisions to the IPM, but I really couldn't tell
6 you what they were.

7 Q Let's pick up the - just a general procedure of
8 a customer coming to you saying, we can just use Emery.
9 But what is the process of Emery selecting this facility
10 and how do you start receiving airplanes and performing
11 their maintenance?

12 A Most of our customers have started similar to
13 Emery. Emery had a problem, at least they felt that they
14 had a problem with their previous maintenance provider.
15 They also had - were trying to get ready for the Christmas
16 season rush and asked us, after we had requested several
17 times for them to bring us an airplane, to do some B-
18 checks for them. We did a series of B-checks that worked
19 reasonably well, helped to improve - or would like to
20 think it helped to improve their reliability through that
21 season.

22 We did well enough with that that they put a C-check
23 in after about four months of watching us do lesser levels
24 of maintenance. And we had a - what I would consider a

1 good relationship with Emery. And we're working a similar
2 program with Express One. They've been coming here for
3 about four or five months with - to accomplish B-checks.
4 We look forward to doing more work with them and some of
5 our other customers.

6 Q What about unscheduled maintenance?

7 A We can and have provided field service teams to
8 go out on the road to assist Emery. We try to make the
9 hanger available to them, or other customers, and we've
10 had - several other people have brought DC 8's in for
11 unscheduled maintenance, chronic problems that we could -
12 there's a couple of 727 operators that we send avionics
13 people on the road for - a fairly regular basis.

14 If there are chronic problems, or problems with the
15 aircraft and it would make more sense to ferry it than to
16 send a crew out, if there's a structural problem, we've
17 had Emery ferry airplanes in with temporary repairs for us
18 to work on after they've gotten them ready and moved in
19 here. So, we try to handle - we try to solve as many
20 problems for our customers as we can within our
21 capabilities. And to not - to at least be in a position
22 where we can say that our extra, or drop-in work, didn't
23 impact our primary business, which is C-checks.

24 Q Have you had any problem areas with Emery, where

1 you've had to go somewhere to work on a aircraft?

2 A We've had to - golly, we've been all over the
3 country for Emery. We had a crew working in Atlanta for
4 several works on some structure issues. We've had people
5 at Dayton for a couple of months during one of their FAA
6 inspections. We put together I think a twelve-man team
7 that was up there, that they would work an aircraft a
8 night at Emery's direction. And we've had people out in
9 Texas and Indianapolis, out in Seattle. I think we've had
10 people - we've made several trips to Memphis taking jacks
11 and equipment over to Memphis to do gear swings on
12 aircraft while they were down on the weekends.

13 I think we've done a reasonably good job. They call
14 us when they have a problem and look to us for solutions.
15 Sometimes it's been in a position where we have impacted
16 their C-checks on the frontend. And I think there's
17 advantage to using people, if you have aileron damage
18 because a truck taxied into it it's obviously better to
19 get somebody who's familiar with removing and replacing
20 the ailerons and has the slings and equipment to do that,
21 then to try to struggle through it with people who are
22 more used to line service where you've got the airplane on
23 the ground for two or three hours and it's gone. So, it's
24 just been a good relationship from that standpoint.

1 Q You get also some that's flown in for - you
2 know, that's not in for checks, but just general
3 maintenance problems?

4 A Yes. Occasionally we do that. We have had
5 aircraft come in here from - ramp checks or B-checks or -
6 as a matter of fact the airplane right outside ferried in
7 here from Atlanta was on a through flight and one of the
8 mechanics noticed a bubble on Longeron 24. They moved the
9 airplane up here and we've got the landing gear out, the
10 longeron 24 replaced. The trap fitting was cracked and
11 several other problems. And it looks like it's going to
12 be another two or three weeks before that airplane is
13 ready to get out of here because of parts issues.

14 Q Any flight control problems you've noticed with
15 DC 8's - Emery DC 8's first, and then any DC 8's?

16 A On an outside basis? We have had - we have been
17 called to go check rigging on flight controls and work on
18 problems that either Emery hadn't - didn't have - didn't
19 feel comfortable with their people doing, or - more often,
20 that they had other problems that their people were
21 working on. They have a couple of people that are pretty
22 decent riggers that have come down here to help us when we
23 get stumped on problems occasionally.

24 We had an aircraft going out to check that we had

1 crazy yaw deck problem on and we had two or three people
2 down here that helped us resolve that issue. Sometimes
3 you need somebody that's not in the middle of the forest
4 to tell you where you are.

5 So, that's been a good - I feel like we've done a
6 good job for them. And they continue right up to today to
7 send some work to us. You know, whenever they have a
8 problem. And I assume at this point that they try to go
9 to D. Howard, who is their primary vendor. So, if they're
10 backlogged, they probably come here. But that's their
11 decision. That's their call.

12 Q What can you tell me about - we've had several
13 people we've heard already talk about the overhaul
14 components, lack of total components that are coming into
15 the facility? You've heard some of the concern, what do
16 you do about it as the general manager, and what has been
17 done and --

18 A Generally we talk to Emery. Occasionally we
19 have talked with - at least on one incident we talked to
20 the FAA. Emery and us talked to the FAA. We had a
21 balance problem on an elevator. We went through a pretty
22 significant corrective action problem. I don't think - I
23 don't know if that elevator ever went - it did go back on
24 the airplane. We had to re-balance it, but it did fall

1 into parameters. But we had a significant issue with
2 that.

3 We've had other chronic problems, elevator load field
4 mechanism that's up underneath the cockpit floor that we
5 were running through. I think we - at one time had five,
6 a string of five of them, that were shipped in here before
7 we got one that was serviceable. Seemed to be a chronic
8 problem. We set up and overhauled those units with the
9 hopes that we would become Emery's primary vendor on
10 elevator load field units. That never happened.

11 I think their repair station - in that particular
12 incident the repair station that was doing the overhauls
13 came up and the Douglas overhaul manual gives you some
14 steps to overhaul it, but there is no check at the end of
15 the overhaul. There are some rivets that have very close
16 clearance - close tolerance - and if they're not installed
17 properly you feel a ratcheting motion as they bump against
18 the springs and housing. It takes some special equipment
19 to get the rivets installed correctly. We have all of
20 that equipment. We repaired the units and put them back
21 into service.

22 The manual reversion mechanisms was a chronic problem
23 with Emery for probably a year and a half. I don't think
24 we got a manual reversion mechanism in here that we could

1 put on an airplane without running it through the shop.
2 And we tried to get them to send their manual reversion
3 mechanisms here.

4 I would say that a manual reversion mechanisms, they
5 ended up going to Fortner out in California and Fortner
6 solved their problems. They're a good quality company.
7 But I don't remember who was doing the reversion
8 mechanisms. I think some of the people that were
9 overhauling surfaces were doing that, and you need some
10 special fixtures. And you need the lockout mechani- -
11 cylinder has to be installed in order to get the right
12 amount of torque on the mechanism before you drill it.
13 You've got to - we have all the equipment to do that and
14 bought shafts. I think they're about fifteen hundred
15 bucks (\$1,500.00) apiece and there's two of them. And
16 clappers and the equipment, the parts, so that we could
17 turn them fairly quickly because they were a real chronic
18 problem for awhile. We actually - we've always
19 had the capability of overhauling control surfaces here.
20 When we did the first aircraft for Emery, because of the
21 number of people and the amount of time that it was going
22 to be working on the airplane we anticipated, I think,
23 thirty-five (35,000), forty thousand (40,000) manhours of
24 labor that it made more sense to ship the control surfaces

1 out for repair. While the airplane was down we'd focus on
2 the structure. And when the surfaces came back in then
3 we'd reinstall them. But there was a problem at turn
4 times and Emery had bought a replacement, or a spare set
5 of control surfaces and positioned them here. And the
6 ones that came from Willis, I think, were in that package.

7 So, you know, it seemed like a good plan that we
8 would send the surfaces out. After about three airplanes
9 I - it became obvious that that didn't work. I don't
10 think in our whole amount of time that we worked for Emery
11 that we ever got a complete set of control surfaces in
12 without problems on it. From any of their vendors.

13 And I'm not picking at Emery, but we did set up and
14 we are set up to be able to handle the surfaces. One of
15 the problems when we were trying to do that here is you
16 could do an aileron, you could do an elevator, but if you
17 have a complete set of surfaces off a DC 8 takes up a very
18 large amount of floorspace. And we're obviously key on
19 having the floorspace available for airplanes. So, we
20 have a thirty thousand (30,000) square foot annex with
21 some special fixtures that we built to handle and install
22 surfaces and move them around. But we - the component
23 repair and Emery classified the surfaces as part - in
24 their rotatable component inventory and part of their

1 component packages controlled by someone else.

2 I have direct involvement with a maintenance group.
3 They have a different organization that manages their
4 rotables and assets. And while they are responsibilities
5 I'm sure to Maintenance it's not the people that I
6 normally deal with or talk to, and I was never successful
7 in attracting that group to bring their services here.

8 You know, I don't know whether my prices weren't
9 right or they were concerned about getting into -- issues
10 with the surfaces or what it was, but - and it put me in
11 kind of an awkward position because I didn't have - you
12 know, you don't want to raise too big a flag - you don't
13 want to raise too big a flag because you - you know, then
14 people think you're trying to make it worse than it is so
15 you can get their business. You have to let them know
16 where there are problems, and there is kind of a fine line
17 there that - without throwing too many stones and
18 alienating our customer completely of what you can do to
19 try to direct them to where to have some of their work
20 accomplished.

21 But we struggled through that.

22 Q Well, it's just the question then do you relate
23 this information both to the - your customer and also to
24 the FAA that's --

1 A They were involved with a couple of different
2 situations. We didn't go to the FAA with every bearing
3 that was frozen, or bushing that wasn't brought up to
4 size. But there were a couple of issues that were
5 significant because the weight and balance on the one
6 elevator was significant because there was documentation
7 that said it was correct. And we had a problem with the
8 aircraft on the test flight. I took it off and the
9 elevator was significantly - was right on the edge, or
10 just barely on the limits. The paperwork that we had said
11 it was dead center.

12 That's the way we like them. When we do something
13 here we don't want to meet the minimum limits. This is an
14 overhaul facility and we like it - if something calls for
15 the rigging to be here, and that's neutral, that's where
16 we want it. We try not to use the plus or minus quarter
17 inch or half inch or whatever it is. Because somebody on
18 the line a year from now is going to meet that and we had
19 - Emery and us - had an understanding that if they had a
20 job card that gave us a limit that was the limit for C-
21 check. If we were looking at maintenance manual limits we
22 tried to restrict them by at least fifty (50) percent, so
23 that we were sure we had at least fifty (50) percent of
24 the wear left available on a unit. You know, so it would

1 make it to the next C-check without it being - without any
2 problem.

3 So, if you were looking at a bushing that you were
4 allowed a five thousandth's (5000) wear by the maintenance
5 manual and it was at four thousandth's (4000) we'd change
6 it, we wouldn't sign it off. Aligning your door hinges, I
7 think, are fairly critical, with the amount of slot that
8 you're allowed to the hinge. We always tried to reduce
9 the limit in the maintenance manual. If there was a
10 maintenance manual limit, reduce it by about fifty (50)
11 percent. And if it was an Emery job card limit, said this
12 is our limit for C-check and we were in C-check, then we'd
13 use the full - their full allowable tolerance.

14 Q Components though are definitely very bad I fall
15 back to relating this to the FAA local. So, I take it you
16 pass that information on to the - from oversight of
17 another --

18 A We did on occasion and on occasion that kind of
19 backfired on us, because we would relay it to Emery and to
20 the local FAA. Then our FAA would call their FAA and if
21 their FAA - if our FAA knew about it before their FAA did,
22 then there was some political issues with protocols and
23 who's supposed to get notified when. But I would honestly
24 say that there was nothing that was uncovered here that

1 didn't get reported through one channel or the other, that
2 I'm aware of. But - and occasionally it did backfire on
3 us. And, you know, it's Emery saying, well, you know, are
4 you trying to stir up a problem here with out other
5 vendors or give us a chance to understand the problem
6 before you feel like you need to call the FAA. And we
7 tried to do that. There were occasions when it didn't
8 happen, but generally - because at - Emery has the number
9 of reps that they do here it was not difficult to keep
10 them advised.

11 Q I would think it would really probably be
12 Emery's position also to do that, since they would have a
13 Safety Department or some - because you're benefiting from
14 whatever you find wrong. You fix it, so you're --

15 A Right. Right.

16 Q -- doubling up.

17 A The more bad parts we get in the more we get to
18 work.

19 Q On these flight controls on - ask of this
20 federal assembly --

21 MR. MCGILL: Again, I'm going to say, let's
22 don't have anymore ice - I don't want to hear that again,
23 or you can do it outside.

24 Q From your knowledge of what has transpired and

1 what the different views - things that we have learned
2 since the investigation what can you tell me about the
3 maintenance that was performed on this airplane at this
4 facility, that you know, that might help us better
5 understand this problem?

6 A The - first - when we first started, because we
7 recognized there is a, obviously, potential problems with
8 flight controls, and they are very time consuming to rig.
9 The installation rig procedure can stretch out over a
10 week or longer. On occasions we dedicated a crew and we
11 tried to pick our best mechanics and inspectors to work on
12 that crew and deal with flight controls. I think of the
13 nineteen (19) people that we had that worked on the
14 control surfaces on that airplane there was two that were
15 unlicensed people. And they were probably there to help
16 clean up and possibly with the lubrication or positioning
17 I-bolts for doing some of the more strenuous manual labor.
18 When I first heard about the accident, you know, I
19 said, pretty sickening feeling to be involved with the
20 crash of an airplane or someone's death, and I was
21 exceptionally concerned over what we had done and went
22 back and looked at all the people that were involved. And
23 the further I looked the more confident I became that we
24 had the right people in the right place, and the right

1 people were assigned to this job. And that the group that
2 was involved here is probably as good a group as you would
3 find at - anywhere that's accomplishing this type of work.

4

5 I get a little frustrated with the paperwork and the
6 way the paperwork was managed, and the way the paperwork
7 is designed is not for removing the surface and sending it
8 out to somebody else and bringing it back. There are some
9 cards that were an aid as far as elevator overhaul in
10 which, you know, involves the - which puts you right in
11 the area with the overhaul manual in the area that we
12 would have been in.

13 I don't know, you know, where - how you go to get to
14 a failsafe position, but I do know that from the crew that
15 was assigned, the lead mechanic and mechanics, are as good
16 a mechanics as I have in this building. And they've been
17 on flight controls from probably six months after we
18 started into business.

19 I was tired of taking two or three weeks to rig
20 flight controls and we set up a crew. We put them all
21 together on an odd shift that worked from 10:00 in the
22 morning until 8:00 at night so they would know each other,
23 the people that work dayshift and second shift, to learn
24 how each other functions. The two inspectors that I

1 consider primary inspectors that are involved with this
2 were Mike Ellsworth and Kenny Hall, and they were part of
3 that program. As was Tom F-- I believe. And they are
4 conscientious inspectors, they are not people that are in
5 a - take something for granted or look lightly on check
6 safeties on bolts or checking torques.

7 There are people that I have seen have people pulls
8 pans back off because they didn't get an okay to close.
9 They're not going to take any unnecessary chances to save
10 fifteen (15) minutes further work. So, I don't think that
11 - I think there are other carriers that have similar job
12 cards to what Emery uses. There are carriers that have a
13 great amount of detail in their job cards and really use
14 the maintenance manual for a reference. But the job card
15 is adequate to get the job done without ever going to the
16 maintenance manual.

17 And, you know, hindsight being 20/20, I would like to
18 - you know, if I was doing this again there'd be a space
19 for every time that you wanted an inspector to look at
20 this job for him to stamp something. On this particular
21 card you get through the whole package with mechanic
22 signatures, which is typical to airlines. It's not real
23 unusual. Then at the end you have inspector sign for
24 proper installation and for rigging. If it was a document

1 that was being prepared by a repair station like our non-
2 routines, on a non-routine card, we'd have three
3 signatures. We'd have the mechanic that does the job, the
4 supervisor, which could be a lead, or a supervisor and an
5 inspector. And the supervisor is supposed to look at the
6 work and make sure it's ready for an inspector to go look
7 at it and do the final check. So, in our inhouse
8 paperwork we have three sets if eyes looking at what - at
9 areas in here that we only have a mechanic sign for.

10 You know, that may be a kneejerk reaction on my part
11 trying to think of things that should be done, but I think
12 for sure there are changes that I would want to see in
13 some of these kind of work. And we do that with some
14 operators and we've suggested changes to people. Emery
15 has been in a very awkward situation because the DC 8
16 maintenance program is being converted to - from MSG2 to
17 MSG3. And we had asked for several changes to the
18 program.

19 The ones that we had requested the advice to us was,
20 we're not going to change any job cards, we're not going
21 to make revisions, we're doing a whole complete rewrite
22 when MSG 3 is approved, and save your stuff. Because -
23 you know, send it in, but we can't do it to this package,
24 it'll be in the new one. So, that puts us at a

1 disadvantage from a repair - the other problem from a
2 repair station standpoint is that what we like to do is
3 break job down into manageable increments.

4 I don't want anything on a piece of paper that I'm
5 going to - say Jim Bailey is the mechanic out here, I want
6 to give him eight hours worth of work to do today that he
7 can sign for at the end of the day so we know exactly what
8 he got. If you've got a hundred (100) hour task card and
9 we have a few open end inspection cards with Emery that we
10 estimated a hundred (100), hundred and fifty (150) hours,
11 and it's all on one piece of paper. You know, there's
12 probably six spaces to sign for. Where we need to be, in
13 order to control our labor force, is break it down into a
14 manageable increment of time so that we know that we've
15 got a hundred (100) people out here for eight hours, we
16 have eight hundred (800) manhours worth of work scheduled
17 for today. If you have a hundred (100) manhour job card
18 out there, and we schedule it to happen over five days, it
19 stays out there and somebody walks off with that stuck in
20 their notebook we lose it for four days. It takes four
21 days before the man upstairs, that's doing our control and
22 are issuing the paperwork, is looking for that card to
23 come back. So we potentially have lost three or four days
24 on the check.

NATIONAL COURT REPORTERS
SUITE 200, THE CENTRAL BUILDING
6 SIXTH STREET
BRISTOL, TENNESSEE 37620
(423) 989-3720

1 It's a nightmare for us. Where we need to be and
2 what we like to see is manageable time increments and job
3 broken down so that in an eight hour increment you can
4 sign for what you've done, you know what you've
5 accomplished, you know what to expect of your workers.
6 They know what to expect of you. My people love to see a
7 hundred (100) manhour card, because it gives them some
8 place to charge their time.

9 You can usually tell when that's happening, and
10 that's not the case here. But it is a potential problem,
11 and it's something that the airline, because they're not
12 directly - you know, we bid the routine part of this work
13 at hundred and fifty thousand dollars (\$150,000.00) and,
14 you know, you knew what it was going in, deal with it.
15 This is the paper that you have to sign off at the end of
16 the check. So, it makes it much more difficult from a
17 management standpoint to control the work that's going on
18 in the hanger. Or efficiently schedule the work.

19 Q But obviously you do it someway. Apparently
20 that's where I got the nineteen (19) hours - nineteen (19)
21 --

22 A Yeah, we do it because this is what we're
23 charged with doing. We operate our - what we're mandated
24 to do is operate from the operator's program first. So,

1 if Emery gives us a document that says that this is the
2 way they want it accomplished, if it's in conflict with
3 the manufacturer's maintenance manual, or if it's in
4 conflict with somebody else that we've worked on, we go by
5 Emery's maintenance manual. If there's something in
6 glaring conflict with the Douglas program, or even if we
7 just feel like it's in conflict, we may question it, but
8 our charge from a regulatory standpoint is to use the
9 operator's procedures and the operator's manuals. And
10 that's what we try to do.

11 Q You mentioned the hardware that was used to bolt
12 the nut - cotter pin. Seems like I got one reply that
13 there was a nut that was charged?

14 A Yes. We - and that's a little bit of a fluke,
15 because it's, I think, the nut is a nickel component, but
16 we have what we consider a free stock area and we charge
17 Emery a percentage of labor for hardware that we use on
18 their aircraft. So, we're not issuing - I don't have
19 somebody standing at the window issuing fifty (50) nuts
20 for every fuel tank panel that they're - bolts for every
21 panel that gets closed.

22 We have a inventory of hardware that's out next to
23 the airplane. The bolt that's used in this particular
24 situation, the nut, are not what we have in our free

1 stock. We don't put everything out there, because there's
2 some of it that you just don't use that often. This nut
3 is in our - was in our stockroom and was signed out
4 against this task. So, that gives me reason to believe
5 that whoever did this at least it - well, they charged out
6 the correct part number nut.

7 The bolt - I can't honestly say whether the bolt was
8 new or reused. It is possible that the bolt that came in
9 with the original elevator was put back in this location.
10 And when we shipped the components out I believe that the
11 tabs were shipped to one company, because they're
12 honeycombed. They go to a composite vendor. And the
13 elevators were shipped someplace else and the hardware,
14 when it was disassembled, was kept in a bag and probably
15 tied in the flapwell or put in the stockroom.

16 And it is possible that the bolt was looked at and
17 deemed to be serviceable and put back in. It's also
18 possible that the bolt was replaced as part of a kit
19 provided by Emery, but I don't think so. We have a lot of
20 confusion with Emery kits, because the people that do your
21 kitting don't understand what a kit is. To everybody in
22 this room I think a kit is a plastic box or a cardboard
23 box with some hardware in it. To kitting at Emery it's a
24 list of pieces. And it's nuts, washers, cotter keys,

1 bolts, and they would - we would get information from them
2 that we're providing you with the kit. Well, a week later
3 we call up looking for the kit and they call back and say,
4 well, you got it. You know, it's - this is what's
5 supposed to be in the kit and we shipped all these
6 individual pieces, they're all in your stockroom
7 somewhere. But it was never shipped - or seldom shipped -
8 as a kit or if it was, it was partially assembled and then
9 we'd get pieces thrown in after the fact.

10 I don't - I know that we had the correct part number
11 involved in stock, we had ten (10) of them at the time
12 that that airplane was worked. I know that we didn't
13 charge one out of my inventory, put it back together. I
14 know if we did charge a nut out, whether it was dropped or
15 what, I don't know. I mean, it's not something that Emery
16 would ever see, because it's under the four dollar (\$4.00)
17 cap and it's considered miscellaneous hardware that's just
18 charged. But we did have somebody go through the
19 stockroom and sign that nut out for that task card. So, I
20 know that they - they had the right pieces in their hand,
21 whether the bolt was changed I don't think anybody will
22 ever know for sure.

23 Q What's the general view of cotter pins?

24 A When you pull them out you throw them away.

1 When they're pulled out - I have never - and will probably
2 go like in a parts bag and make a liar of me, but I've
3 never seen anybody ever remove a cotter pin and put it in
4 a parts bag and tie it to a unit to be put back together.
5 I just absolutely cannot believe that there is anybody in
6 aviation that has - unless you were out in the middle of
7 the desert somewhere and in an emergency landing and had
8 to put something back together that would ever consider
9 reusing a cotter pin. We have refocused a little bit on
10 that, but I just - I've never seen - at Eastern Airlines,
11 National, any of the repair stations I've ever worked for,
12 seen anyone reuse a cotter pin.

13 MR. MCGILL: It's 2:00, I'm going to take a
14 little break here, if that's okay.

15 (OFF THE RECORD)

16 BY MR. MCGILL:

17 Q Dave, I've asked several people about the
18 results of the Emery fleet campaign directive, is there
19 anything you can share of your knowledge of that, anything
20 to learn from that, or whatever?

21 A I've asked for the results and never been
22 provided them. I'm curious as to - I know there was two
23 fleet campaigns - at least two fleet campaigns issued, I'm
24 not sure about a third one - that involved that bolt. The

1 first one had no picture on it and very little
2 information. It was about three pages. The second that
3 came out was about seven pages, I believe. Had a good
4 picture and drawing and part numbers and all of that stuff
5 on it. I think - you know, I'd like to know what the
6 findings from the first one, and the findings from the
7 second fleet campaign were, but I have not been provided
8 that information yet.

9 Just point of curiosity just to see if the first
10 fleet campaign solved the problem, or if they found
11 numerous orientation problems after they put out the
12 second one. Because the second one has a picture, shows
13 it going from inboard to outboard. I don't know what the
14 results of either one were.

15 Q From what we've learned since the accident and
16 areas of concern has come up about this inboard/outboard
17 maintenance manual descriptions, IPC descriptions, then
18 the overhaul manual, what is just your general view as a
19 manager of a 145 on this whole take?

20 A Obviously we need a revision. But the - if I
21 was a mechanic whether I would get that bolt installed in
22 the correct orientation or not before this incident would
23 probably be pretty questionable. There is a slight
24 dihedral to the tail and that bolt appears to be going at

1 a slightly up hill if you install it in accordance with
2 the manual. The general rule of thumb, like Kenny was
3 saying, is that you would want it to go in the direction
4 of the flow of water, or down to where gravity would pull
5 it out, or aft where impact would - or acceleration would
6 tend to keep it in place.

7 So, I guarantee you which it would go in with anybody
8 in this facility from now on, but how it may have been
9 done in the past, I can see a lot of room. If you've
10 never opened the overhaul manual it's quite likely that it
11 could be - you know, that it would be installed from the
12 outboard to inboard, which is opposite orientation.

13 Q You mentioned earlier that you had performed
14 initially some B-checks for Emery. For my curiosity,
15 about how many manhours does a B-check take? How long
16 does it take?

17 A When we were doing Emery's B-check program we
18 bid the B-checks, I believe, at about a hundred and
19 twenty-five (125) manhours. We overran that on all but
20 one. Part of that is because in the beginning we were
21 running a training program and people were charging time
22 to the B-checks. I think we may have run double or triple
23 in the beginning. We were down pretty close to a hundred
24 and twenty-five (125) manhours at the end of the program.

1 And we would generate somewhere over a hundred (100) non-
2 routines. A hundred and twenty-five (125) manhours is
3 just for the job cards, the filters, the routine package.

4

5 Q So, you would keep the airplane here. Roughly
6 how many people can you put on a B-check? I mean, what
7 would you max out at, or what --

8 A Oh, we would probably --

9 Q How many days does it take to do B-checks?

10 A We were doing B-checks in three days. We were
11 doing additional work also. I think at that time they
12 wanted us - they wanted all the gear repacked and we were
13 doing an EPR. They had a campaign to correct EPR problems
14 on the JT 3's, and we were getting only the 63's. We
15 weren't getting the re-engined aircraft at that time.

16 Q Is there anything that you can recall on a B-
17 check that - in the lubrication of a B-check, that would
18 allow someone up in that --

19 A I probably haven't personally done a B-check
20 since I worked at Airlift, and --

21 Q That's all right.

22 Let's just generally pick up something in the - as a
23 question of a 145, can you tell me - these are questions
24 that I had made when we had a 145 special study here about

1 a year or so ago, but what would be the most challenging
2 business requirements to the oversight of some sort of
3 contract maintenance? What do you see in the industry
4 about that, the challenge portion?

5 A Golly. Do we have a couple of days? There are
6 lots of challenges. Maintaining the right skill level
7 with the right people is a large challenge. The amount of
8 paperwork and the responsibility that a mechanic should
9 feel in a 145 environment is enormous. When I was first
10 working as a mechanic I was working at Eastern Airlines
11 and there was a significant number of people. You know, I
12 was the kid, and the rest of the crew was very familiar
13 with Eastern's paperwork and systems, and things went
14 fairly easy. The amount of problems with bogus parts,
15 with the change in the requirements for maintenance
16 manuals, for the references and the documentation that
17 goes with each job card has created volumes of paperwork.
18 I would say that where maybe a mechanic used to spend
19 seventy-five (75) of eighty (80) percent of his time
20 working and less than twenty (20) doing paperwork, you're
21 probably getting close to a fifty/fifty (50/50) mix. And
22 re-emphasizing the importance of documentation and correct
23 documentation and accurately recording everything that
24 gets accomplished on an aircraft is just a huge

1 undertaking.

2 The penalties for doing it wrong are enormous. The
3 145, the aircraft that we just left is probably a classic
4 example of the problems you can get into with records. We
5 removed almost eighty (80) repairs from that airplane that
6 - at Emery's request, that they could not find
7 documentation on to know whether the repairs were legal.
8 And we've been running through that typically on the lease
9 return airplanes. We had several that were real
10 significant problems. And apparently have - at this time
11 they have no ability to find where those repairs were
12 originally installed or what the status is. So, they're
13 paying the penalty. You know, they come off, you inspect
14 the damage, ensure that the damage - the repair meets the
15 damage - corrects the defects and get all the appropriate
16 engineering and get back into business. But the record
17 keeping, traceability and tracking functions associated
18 with aircraft repair are huge in comparison to what they
19 were twenty-five (25), thirty (30) years ago.

20 Q You think that Emery just did not track those
21 items, or they lost them somewhere in the paperwork?

22 A I don't have any idea.

23 Q But you really --

24 A I know that you wouldn't pay somebody to take

1 that repair off if you had a record of it and knew it was
2 a good repair. So, we were told that we would document
3 the - every repair that was on the outside of the
4 aircraft. And I think they may have had fifteen (15) or
5 twenty (20) that they had documentation on. And the
6 balance of them had to either be x-ray inspected so you
7 could clearly tell what the damage was or removed. And
8 re-evaluate it by engineering. This particular situation
9 they're using their own engineer again. You know, Cogne,
10 I think, is the gentleman's name.

11 Q Would these - could these things lead to safety
12 concerns? Or are they other safety concerns that - should
13 we worry about doing -- a 145?

14 A We removed - we removed one repair from a cargo
15 - a converted cargo door airplane that had about a foot
16 and a half long doubler by probably a foot high. And the
17 rivet pattern led us - would have led you to believe that
18 the damage was in the center of the repair. The damage
19 was actually right at the edge of the repair. They had -
20 and I have no way of knowing whether Emery did this, or a
21 previous operator did it, or whoever. Now, I don't know
22 who installed the repair, or whether Emery ever had a
23 record of the repair being done. But when we removed the
24 doubler the damage was - we had hit the side of the

1 airplane with a forklift and the damage was right at the
2 edge of the doubler. And they had butted the doubler up
3 against the doorseal so it covered the damage, but didn't
4 repair anything. It didn't transfer the stress in any
5 direction. We ended up pulling about a twelve (12) foot
6 piece of metal off the side of the airplane and
7 incorporating the repair into the primary structure for
8 the door conversion. That was all done through Cogney.
9 But they're impossible to tell unless you had the records
10 or knew where that had been installed.

11 Q But aren't those records all - those must be
12 kept of major repairs like that, that someone could have
13 evaluated that, they would conform to you accepting the
14 aircraft or something shouldn't they?

15 A I would think.

16 Q Do you see any other type of safety things that
17 would be more unique of 145 versus a carrier an operator
18 use in their own maintenance? Is there a relationship
19 that --

20 A I think - I think the - there are probably
21 safety advantages to using a 145. I do not feel the
22 pressure that an Emery employee may feel to make a
23 schedule departure. I think their - well, I might feel
24 it, the mechanic on the floor will never feel it. You

1 know, he's charged with fixing the airplane, making sure
2 it's done correctly, and that's his job. He's - we're in
3 the business of repairing airplanes, Emery is in the
4 business of carrying freight. So, our priorities and
5 their priorities aren't always the same. It's just like
6 the flight controls, we want - we're not interested in
7 saving Emery money, but we are interested in having as
8 safe as possible an airplane. And with reducing the cost
9 that we spend, or that Emery spends with us, or more
10 efficiently utilizing the manhours that they're buying
11 from me. So, if we can put the same control surfaces back
12 on, first that we know came off of that airplane they've
13 been flying fine for six years, and we're not questioning
14 whether that's the surface that belongs - that has the
15 right affectivity for that aircraft. You know, the whole
16 process becomes easier.

17 We had an aileron that came in that someone - an
18 outboard aileron, and on the DC 8 the outboard aileron is
19 connected to the inboard aileron with a torque tube.
20 There is a fixture on the torque tube that connects the
21 two together, and we worked for two days trying to get the
22 torque tubes hooked up. Fold the aileron back down, get
23 the drawings from Douglas and - it's a bad drawing, by the
24 way, you can pass that word back. There's a horn and

1 there's a hole that has to line up with the bolt. They
2 pull against each other and twist these torque tubes as
3 you're flying. The dimension on the hole is the only
4 dimension on the whole drawing that's made from the
5 outside surface. But nowhere does it tell you the overall
6 length, and the hole was off by half a inch. So, you
7 could never make the part line up. The repair station
8 never replaced the fitting. They got it - I have no idea
9 where the aileron came from.

10 I'm told it was in service on another airplane
11 somewhere, but there is no - I'm here to tell you there's
12 no way in the world that aileron was ever hooked up to the
13 inboard aileron the way that was drilled. And, you know,
14 it was crazy. When we got the drawings it became very
15 apparent after about forty-five (45) minutes of studying
16 this that the dimension for the center of that hole came
17 off a - came from a point on that fitting that was never
18 defined.

19 If you measured from the outboard end of that little
20 fitting the hole was right where it needed to be, but the
21 fitting was not positioned by the outboard end, it was
22 controlled by where the inboard end was, and that
23 dimension wasn't in the drawings.

24 So, whoever made the fitting probably did it right by

1 the drawing, but we have no idea who installed it or where
2 it came from. The repair station that overhauled the
3 surfaces came up, took it back, came back to us with a -
4 you know, and worked fine. But it was - you know, it's
5 pull your hair out time trying to figure out what's wrong
6 here.

7 You know, is it - which aileron is it? Did we do
8 something with the aileron inches? The inspection never
9 stops, and you never stop questioning why it's taking more
10 force than it should to make something work. And you
11 continue to work at solving problems. So - and that's
12 what we did with our shop that we put down there.

13 Even though we don't do surfaces for Emery it's
14 probably been one of our best investments ever. We - it
15 cleaned up the hanger tremendously. When we take an
16 airplane apart now for a C-check or a D-check every panel
17 and every component that comes off the airplane goes on a
18 shelf. It's transported down to the annex.

19 We've got an EPA approved wash facility and B-
20 blasters and everything that we need to really do a good
21 job of cleaning. An inspector looks at it, we fix
22 everything that you find on those removed panels and they
23 come back down here. So, it's really - it's really worked
24 out real well for us to have that facility offsite. It

1 keeps the hanger clean. It keeps people from damaging
2 airplanes trying to maneuver around doors that are sitting
3 on benches on the floor, and it's been a good program for
4 us.

5 MR. MCGILL: Well, Dave, I don't have anymore
6 questions. I'm going to start it around the room and --

7 MR. THAYER: No questions.

8 MR. MCGILL: Do you have any questions, Jim?

9 MR. BAILEY: No.

10 MR. MCGILL: Okay.

11 MR. ROBBINS: Bruce Robbins for Emery.

12 BY MR. ROBBINS:

13 Q The work that you did for Emery offsite --

14 A Yes.

15 Q -- where they called you up for a team of people
16 to do whatever, is that - do you consider that routine
17 maintenance or was that stuff that stuff that you were
18 called up to do to boost your liability or to take care of
19 a chronic problem or something of significance on
20 aircraft?

21 A Normally it was something of significance on the
22 aircraft. Either corrosion, a crack, some - we were
23 called - I think they broke maybe an aileron bus cable
24 somewhere, or a spoiler cable, and rather than have the

1 line guys struggle through that we sent the rig team from
2 here out to deal with those kinds of problems. I would
3 not consider - except for the trip that we made up to
4 Dayton, none of them were to do - what I consider routine
5 maintenance.

6 Q On 8079U you said the original quote was for how
7 much? You bid the non-routines - er, excuse me, you bit
8 the routine work.

9 A I don't - I could dig it back out, I don't know
10 whether the total. I think I said forty thousand (40,000)
11 manhours, but I'm - that's what we had planned when we
12 were talking about whether or not the control surface
13 issue be sent to an outside source.

14 Q Do you know how many manhours were exerted
15 against that thing, non-routines and all?

16 A I don't know that forty thousand (40,000) was
17 the number that we were bidding from. There was a grab it
18 out of the air kind of number. I feel like it was
19 probably closer to sixty (60) for a D-check, but I really
20 - I'd have to go look to find out.

21 Q Okay. Based upon your experience on the work
22 cards that Emery provided for C's and D's, are they
23 adequate?

24 A They don't - are they adequate to get the job

1 done? Probably. Do they help me manage what I'm doing
2 for Emery's aircraft? No, they don't, they don't at all.
3 Obviously they are adequate or the FAA would never have
4 approved them. Right?

5 Q You've got to answer the question.

6 (Laughter.)

7 Q My friends tell me. How many nuts were taken
8 from stock on this?

9 A Just one. Just one for that - one for that side
10 of the elevator. I think there may have been six or eight
11 issued total, but there was only one to that particular
12 job card.

13 Q And on the B-checks that you guys initially
14 started out with, these - were these just routine B-
15 checks, or did - do you recall if they added in
16 reliability issues to certain aircraft that there was a
17 lot of body package sent with these aircraft?
18 Specifically designed to boost your liability?

19 A There were a couple of areas that were designed
20 to boost reliability. We did the EPR checks, and we did
21 repack the gear, but that was not what I would consider
22 part of the B-check. Those were tracked as a single non-
23 routine task. And I - Emery has modi- - does a phased B-
24 check, and these were not phased B-checks, okay, at that

1 time. I don't know if Emery was doing phased B-checks then
2 or not, but we did filters on all four engines and a full
3 lube package.

4 Q Would you describe a little bit of the process
5 that Emery took to assign -- working on B-checks initially
6 and then eventually you started doing heavy maintenance, or
7 substantial maintenance, for Emery?

8 A Sure.

9 Q What did Emery do to - what did Emery do with
10 Tennessee Tech to bring about that cooperative effort
11 there?

12 A I think that their approval process is not
13 significantly different from other people. They had asked
14 us to provide a quote to do this. We provided the quote.
15 I think probably Tim Allman called and said we were - had
16 a competitive estimate for what we - what they wanted to
17 get done, and he'd like to send a team down to inspect the
18 facility. If things went well, that they would send work
19 here. And they did send - I don't remember whether it was
20 one or two inspectors at that time, came down and did an
21 audit. They had a few findings, maybe six or seven. I
22 don't think there was any - don't remember anything
23 significant.

24 They sent - they ended up with two reps here and a

1 parts person to manager their parts. That usually creates
2 a nightmare for me, but most people want to do that.
3 PanAm has some parts people here. Other carriers, it's
4 not unusual for them to send a parts person. It's - the
5 problem with parts people is that they don't understand
6 that generally - whether they - they think they can go
7 into my stockroom and receive parts for PanAm or receive
8 parts for Emery and they can't. Everything that comes
9 into this building goes through the repair station's
10 receiving process and inspection process. They can have
11 access to it, but they can't bring it in or send it out
12 without it going through our process. And that's
13 regulatory as far as the receiving inspection, and my
14 regulations as far as shipping it out. Because as soon as
15 one of your guys ships something out, and I don't have a
16 record of it, somebody is going to call and want me to
17 ship them their fuel control and if I don't have it, they
18 send me a bill. So, nothing comes in the stockroom or
19 goes out of the stockroom without going through our
20 shipping and receiving so we have a record of everything
21 that comes in and everything that goes out.

22 Q Initially you guys - Tennessee Tech did not have
23 approval for doing heavy maintenance C-checks and above,
24 correct, when Emery first --

1 A Oh, yes, we did. Not from Emery, but on the
2 repair station certificate when we started we were
3 approved for C-checks. We had done overhauls and C-checks
4 for Aircraft Investment Corp, which is Dave Clark. He
5 used to be the owner of ATI. We had done quite a bit of
6 work for Aero Air. We had done some work for
7 International Air Leases, and we have one of their
8 abandoned airplanes out here on the ramp now.

9 We had done - we had been in the heavy check business
10 for a while. Emery was not our first customary.

11 Q Okay.

12 MR. ROBBINS: That's all I've got.

13 BY MR. GUNTHER:

14 Q You were talking before about Emery considers
15 flight controls to be rotables? Something similar to
16 that?

17 A Yes.

18 Q Okay. You were saying that you were - when you
19 had a problem in regards to flight controls that you
20 weren't dealing with maintenance, you were dealing with a
21 different department?

22 A Well, when we would get a component in for
23 repair we would always deal with Tim Allman or Art
24 Andergud, one of the people in Maintenance. But when we

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.

Image File is Not Available - identified to be restored.