UNITED STATES OF AMERICA NATIONAL TRANSPORTATION SAFETY BOARD

In the Matter of:		
INTERVIEW OF JIM BAILEY		
	Docket	
	No.	

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

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- 2 PRESENT FOR THE INTERVIEW:
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- 5 CLINT THAYER
- 6 LYLE K. STREETER
- 7 STEPHEN CARBONE
- 8 DAVID W. HOFFSTETTER
- 9 BRUCE ROBBINS
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- 11 JOHN P. FALCONE
- 12

INTERVIEW OF JIM BAILEY

2 BY FRANK McGILL

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- AUGUST 30, 2001
- 3 Q Could you give us a quick background of your aviation
- 4 training and positions. Nothing elaborate, just -
- 5 A I have approximately twenty years of aviation
- 6 experience, beginning with just under six years in the
- 7 U.S. Air Force. I worked as a line maintenance mechanic,
- 8 a crew chief on F-4s and F-16s, also performed inspection.
- 9 Held a seven level in the Air Force which gave me
- 10 inspection privileges on the aircraft. Honorably
- 11 discharged from the Air Force. Came back home to
- 12 Tennessee to attend MTSU, joined the Tennessee Army
- 13 National Guard very shortly and I'm still there presently
- 14 as a helicopter mechanic.
- 15 Received my Bachelor of Science in May of 1990 the
- 16 degree in Aviation Maintenance Management.
- 17 Started a job for John Tune Aviation Corporation in
- 18 September of 1990. It's a small general aviation and
- 19 rotary wind repair station. Held the position of shop
- 20 foreman/inspector.
- 21 Later the new management came in and took over. That
- 22 corporation was basically dissolved and found a job with a
- 23 company in Nashville.
- It was a regional repair station, just a little bit

- 1 smaller than the place here, probably about two hundred
- 2 employees and started as an inspector there. I basically
- 3 held several different positions throughout that eight and
- 4 a half years. Stayed with the company and worked as an
- 5 inspector, a lead mechanic, designated inspector, project
- 6 coordinator, project manager and when I left I was chief
- 7 inspector.
- 8 Came here in April of 2000 and I've been here since
- 9 then.
- 10 Q What are your responsibilities here. What are your
- 11 duties? What do you do here?
- 12 A The basic responsibility is for the overall operation
- 13 of the Quality Assurance Department. In that department
- 14 I'm responsible for the inspection and the inspectors, the
- 15 training, non-destructive testing and we have technical
- 16 services that maintain and compile the records of the
- 17 aircraft check.
- 18 The other responsibilities would include calibrated
- 19 tooling and equipment for the repair station, manuals -
- 20 making sure that all maintenance manuals ADs, FARs are
- 21 current and available for the repair station employees.
- 22 Basically to supply leadership and direction to the
- 23 inspectors.
- 24 Q Is there a specific position, Director of Safety or

- 1 the safety person that's specific to -
- 2 A Yes, we do. We have a Safety Administrator.
- 3 Q Who is that Safety Administrator?
- 4 A That is John Ackwood.
- 5 0 What other duties does he have?
- 6 A Primarily he is involved with the training for any
- 7 type of equipment in the hangar that's used. He is
- 8 involved with -- training, hazardous waste. He actually
- 9 is has several different areas that he is responsible
- 10 for.
- 11 Q Why do you have that position?
- 12 A Sometimes I've see that position combined with
- 13 training. However, I think the company had John, I think
- 14 originally, maybe for the hazardous waste. He had a
- 15 pretty extensive background in the military in that field
- 16 and he more or less started assuming some of the safety
- 17 duties and it seemed like it fit pretty well. Very pro-
- 18 active in trying to prevent any type of accidents or
- 19 making sure equipment -
- 20 Q Is there a mandatory requirement for that position
- 21 like there is for the airline?
- 22 A No, I don't know of a requirement for a repair
- 23 station to hold that position.
- 24 O You were not here when the last race-up talk yes,

- 1 you were what was the date that you came?
- 2 A I came here in April 2000. I did actually get
- 3 involved with at the end of the race-up inspection, I had
- 4 some correspondence with FAA.
- 5 Q Can you generally summarize about what the findings
- 6 were of the race-up?
- 7 A From my review of the findings, nothing really sticks
- 8 out as a major problem. I think there were no findings in
- 9 several areas. Nothing that drew any attention to I
- 10 would say as an industry standard for repair stations.
- 11 I've gone through race-ups before and seemed fairly
- 12 normal, I guess I would say.
- 13 Q I notice that one of the findings, you can just kind
- 14 of glance here, I know you don't have this out in front of
- 15 you, but one of the findings was, it had talked about
- 16 finding parts belonging to Emery in the storage bins and
- 17 they were not properly tagged. Do you remember anything
- 18 in particular about this finding and what was done about
- 19 it?
- 20 A As a matter of fact I do. I remember this because -
- 21 if I'm not mistaken, there were approximately six hundred
- 22 and fifty parts that were in the storage area down there
- 23 and the response to this was that they had recently gone
- 24 through to move the parts, you know, I guess to put these

- 1 parts on racks and to better have them available for when
- 2 they were being signed out to the aircraft. I think that
- 3 the response was that they had found four tags that had
- 4 been either fallen off or torn off during the movement of
- 5 the parts and that those parts were later tagged. The
- 6 paperwork was pulled up and that was the end of it.
- 7 Q How do you do that today, what would prevent another
- 8 operator from having the same thing?
- 9 A Well, when I came in April of 2000, they had a parts
- 10 representative down there that was keeping the inventory
- 11 and tracking parts coming in and going out our repair
- 12 station for Emery and any other customer would is
- 13 basically set up the same way.
- 14 You would have a location for the parts, the parts
- 15 would be received with the appropriate documentation and
- 16 placed into that area.
- 17 Q Okay. I notice also that one of the findings at
- 18 Emery involved the installation of the upgrade of the
- 19 parameters for a flight data recorder. The finding was
- 20 that the supervision was improperly done by a repairman.
- 21 Can you briefly, or are you familiar with this?
- 22 A Yes.
- 23 Q What actually happened there.
- 24 A With the flight data recorder installation you have

- 1 basically one -- card that spells out the modification
- 2 that they want accomplished. Then you have supporting
- 3 documentation for this for all the modifications that were
- 4 accomplished.
- 5 Throughout this modification, it was monitored by the
- 6 repairman that they mention there and also by several
- 7 other NAMP rated mechanics that were involved with it.
- 8 I think the question of the repairman signing for the
- 9 work was that he signed as a supervisor when he held a
- 10 repairman certificate for electrical and avionics
- 11 installation.
- 12 Through that installation there were some structural
- 13 modifications also accomplished and they didn't feel that
- 14 he was rated to perform that work.
- 15 Later on, when I came in, that was one of the open
- 16 findings. I went back and he actually signed the --
- 17 performing the work then, for which he was appropriately
- 18 rated.
- 19 I think, at the time, the repair station the
- 20 position here was that although he was a repairman for
- 21 avionics and electrical, his training and previous
- 22 experience had involved structural repairs. He wasn't
- 23 rated as a repairman for those, although he has
- 24 supervised, and actually performed work of that nature.

- 1 We did go back and correct that and he signed as the
- 2 mechanic and an NAMP mechanic signed as a lead supervisor
- 3 of the job that had been involved also.
- 4 That was the end of the finding.
- 5 Q So is that corrected. If I brought an airplane in
- 6 today for a modification upgrade for parameters would
- 7 you have you got it broken apart where structures does
- 8 one part and an avionic guy does the other?
- 9 Do you do this internally? Explain -
- 10 A Actually the work scope was provided by the customer.
- 11 We have tried to find ways to break these things out into
- 12 different crafts or skills so that you do have the
- 13 structural items completed under a different area.
- 14 Sometimes we can't we don't really have the control
- 15 over doing that so actually the repairman's certificate
- 16 has been modified since then. The gentleman in question
- 17 does hold the rating for accomplishing that now.
- 18 Q Okay. Not that there was a finding here but I was
- 19 just curious. Another question had been asked by Todd
- 20 about the malfunction defect report.
- 21 A Yes, Service Difficulty Reports.
- 22 Q MRRs or whatever you want to call that. Can you kind
- 23 of explain how TTS handles those type of -
- 24 A There's actually two sides to this. There's the

- 1 repair station that the FARs cover how the repair station
- 2 would handle this and then if the repair station is doing
- 3 maintenance for an operator we follow the operator's
- 4 procedures for this.
- 5 When I came in in April of 2000, there were some
- 6 questions on this that the PMI at the time here, in the
- 7 Nashville -- we were actually sending all of the completed
- 8 SDRs to his office and they asked that, you know, if we
- 9 were reporting this to Emery also, and we were. They had
- 10 requested that we not, that they actually didn't need that
- 11 information there.
- 12 In the Emery Procedures Manual it says that all SDRs
- 13 would be reported through them and they would make a
- 14 decision as to whether they were actually reportable or
- 15 not.
- 16 Q So Emery would be then the one that would be
- 17 reporting the maintenance reports to the FAA?
- 18 A Yes.
- 19 Q to produce an SDR?
- 20 A Yes. If it were a safety of flying or imminent
- 21 danger type situation we had an understanding with our
- 22 FSDO that we would contact them immediately and also the
- 23 operator.
- 24 Q How would you just for your own I'm not trying to

- 1 ask you anything here other than how would you verify
- 2 that what you did find you submitted it to an operator
- 3 that that operator, in fact, would then submit it to the
- 4 FAA?
- 5 A I actually would have no means of following up on
- 6 that. Q You had one finding right here that had to do
- 7 with the --traceability?
- 8 A Yes.
- 9 Q The finding right here by the FAA had to do with JA8
- 10 type form but first off, if you could just address this
- 11 a little bit and then follow that up by telling me how
- 12 parts are traced, how are they received, how are they
- 13 inspected, how do they get to an airport?
- 14 A Okay. The part in question there is a part that was
- 15 sent in here as a new surplus part from a actually held
- 16 a 145 Repair Station, located in Germany and to the best
- 17 of my knowledge, based on the bi-lateral contracts that we
- 18 hold with some of the European and other countries that
- 19 the FAA had had questions as to whether this part actually
- 20 met the requirements for being acceptable for use on a
- 21 type certificate aircraft.
- 22 We actually, I think, to resolve that issue went back
- 23 and performed a conformity inspection on that part and
- 24 returned the part to service, based on holding being a

- 1 145 Repair Station.
- 2 Just generally speaking, as far as receiving
- 3 inspections just to say that basically, from other
- 4 repair stations, other operators I've dealt with, the
- 5 procedures that we have and are approved inspection
- 6 procedures manual. Parts receiving is pretty much
- 7 industry standard. I think most of this comes from
- 8 guidance and advisory circular 20-62, which outlines the
- 9 quality, identification, eligibility for aeronautic parts.
- 10 The part basically we have an area where the part
- 11 is off-loaded. It comes in, initial inspection -
- 12 preliminary inspection is to check the shipping container
- 13 for damage. We make sure that there is nothing obvious
- 14 there. We have a person that actually a clerk that
- 15 receives the package. He takes the Waybill or the
- 16 shipping information and matches that up with, that the
- 17 repair station actually has a requirement for that part
- 18 through a purchase order system.
- Once this is accomplished, the part or parts is
- 20 inventoried, to make sure that it has the correct amount.
- 21 If there's no discrepancies in this process it's passed
- 22 along to the receiving inspector.
- The receiving inspector for TTS also was authorized
- 24 by Emery and other operators, it depends on the program

- 1 but we would basically at this point you're looking for
- 2 traceability certification for that part. If it's a new
- 3 part you're looking for traceability back to the
- 4 manufacturer of the part. If it's a TSL article, you're
- 5 also if it came from a vendor, such as a 145 Repair
- 6 Station as an overhaul or repaired component, you're
- 7 looking for serviceability documents such as an 8130-3,
- 8 looking for you may possibly have a tear-down in the
- 9 work order maintenance release or a serviceability tag
- 10 with it.
- 11 At this point the inspector does a visual inspection
- 12 of the part. If it meets the requirements for the
- 13 certification, he's looking for any type of obvious
- 14 defects with the part that might render the part unusable
- 15 or to be repairable. If the part doesn't pass the
- 16 receiving inspection we have a quarantine cage where the
- 17 part is actually physically removed from that process at
- 18 the time. We also have a procedure in the Inspection
- 19 Procedures Manual that a rejection tag rejection
- 20 paperwork is actually filled out with the details of why
- 21 the part could not be used.
- Often times, if we can receive the correct
- 23 certification for the part it can be released later.
- 24 Sometimes we've had to ship parts back to vendors that

- 1 they could not supply certification.
- 2 If the part goes through the receiving inspection, it
- 3 gets posted to the applicable job that it was ordered for
- 4 and its basically put into a holding cage for the customer
- 5 until the mechanic comes up and actually needs possession
- 6 of the part.
- 7 Q What is an 8130-3 really mean?
- 8 A 8130-3 is -
- 9 Q What does it mean to you? Forget the real technical
- 10 stuff. Just generally if a component comes in with this
- 11 tag 8130-3, what does that mean? What will that tell you,
- 12 generally?
- 13 A It could actually tell you a couple of different
- 14 things. It could tell you it's a new part that has been
- 15 sent in. It can also indicate a repair, overhaul -
- 16 Q In this case we're interested in overhaul flight
- 17 controls.
- 18 A It would indicate that another repair station has
- 19 overhauled with component. They've basically performed,
- 20 to the manufacturer's specifications for overhaul of this
- 21 component.
- 22 Q $\,\,\,\,\,\,\,\,$ Now, if you have that, why should you have a problem
- 23 with that component?
- 24 A When a part comes in with an 8130, in all reality,

- 1 the part is in a serviceable condition to be installed on
- 2 the aircraft. However, I guess, through our experiences
- 3 with parts and other repair stations and vendors that we
- 4 receive these parts from, often times we've found some
- 5 serious problems with the parts being shipped in here.
- 6 We've had flight controls come in with the wrong i-
- 7 bolts attached. We've had improper repairs, parts that
- 8 did not seem like they were put through the overhaul
- 9 process completely.
- 10 Q That's where I'm driving at. If everybody is looking
- 11 at the same overhaul manual, step-by-step to do something,
- 12 shouldn't the end result no matter -
- 13 A Be a serviceable part to be installed. It should be
- 14 but, like I said, it's more from experiences. We have the
- 15 receiving inspector that normally does this function. He
- 16 sometimes catches stuff like that and we can identify it
- 17 there at the receiving stage.
- 18 However, we have had parts that were received with
- 19 the proper documentation and go all the way out to the
- 20 aircraft before a problem was noticed, a flaq was raised
- 21 to, of course, the operator.
- Our own FSDOs initiated a subs report against one
- 23 part. Q Have you ever found certain other vendors that
- 24 supply problem components and you would pass this

- 1 information to the operator?
- 2 A Yes, we have. A lot of times the actual tech reps
- 3 that are here on site were involved at the time because -
- 4 by the time you get the part out to the aircraft, often
- 5 times it was even at the expense of the operator to have
- 6 to correct this stuff, it was at that point deemed, I
- 7 guess, necessary to pay our company to fix the defect with
- 8 those parts and go ahead and install them rather than try
- 9 to take the part back to the repair station that had
- 10 overhauled the part.
- 11 Q So you created a non-routine that they have to proof
- 12 A That's right, yes. From the period I've been here I
- 13 would say it's a pretty substantial cost if you go back
- 14 and research it. I'm sure it was.
- 15 Q Have you had problems with components that were
- 16 overhauled from another repair facility that coming from
- 17 Emery airplanes.
- 18 A Not another repair facility.
- 19 Q Yes, where Emery say another 145 have you ever
- 20 had any problems in that area. Have they chose some bad
- 21 or not as good as 145 overhaul facilities.
- 22 A That's a little difficult to answer that in a way -
- 23 Q Have you contacted hey we're having trouble with
- 24 this particular vendor that you're using -- and so forth?

- 1 A I'm not to tell you the truth I don't know what
- 2 Emery actually followed up with. Yes we have contacted
- 3 them, I've spoke to Quality Control and Quality Assurance
- 4 at Emery with the problems that we have or have had in the 5 past.
- 6 It's really difficult to say, you know, the process
- 7 that they go through to pick their vendors and what
- 8 actually happened to follow this up. I know one vendor
- 9 sent their Quality Assurance Manager up here and he seemed
- 10 very concerned about the product that came out of his
- 11 shop. They seemed to, I guess, make some type of
- 12 retribution over this but I couldn't tell you.
- 13 I'm sure there are a lot of other companies just not
- 14 sure what happened with it later.
- 15 Q Would you be familiar at all with the 145 that did
- 16 the repair on 79U, which is called CCI? Have you ever had
- 17 problems with that particular vendor that you can recall?
- 18 A I can't recall that particular vendor. I know that
- 19 when I came here I know that flight controls had been an
- 20 on-going problem. We'd received numerous flight controls
- 21 in here from different vendors that really had major
- 22 issues, as far as bearings, having bearings that were
- 23 seized up that you absolutely would have to replace before
- 24 you could install on an aircraft.

- 1 Q Would you happen to know would the Overhaul Manual
- 2 that required that bearing to been replaced or just looked
- 3 at then the same bearing put back in and still come up
- 4 with a serviceable --
- 5 A I couldn't tell you exactly. I would think they
- 6 would inspect that bearing for serviceability.
- 7 Q Do certain operators request, do you think, or have
- 8 you been where they request to replace that bearing -
- 9 A Oh yes, I've worked at another facility with a
- 10 components -
- 11 Q How standard those bearings are replaced or
- 12 overhauled A Sure, unless normally in that instance
- 13 unless the customer made a request maybe that to inspect
- 14 the parts for serviceability. There was something in
- 15 there that didn't actually require that we replace them.
- 16 We would follow the work scope like that.
- 17 But yes, normal operation would have you replace
- 18 them.
- 19 O What kind of training does your people receive from
- 20 Emery for inspections, parts, etc.?
- 21 A We've had several different classes, I quess, related
- 22 to inspection. They come down and teach they go through
- 23 their manuals as far as policies and procedures, required
- 24 inspection items, worthiness for lease. They teach a

- 1 class concerning CPCP on the aircraft, engine run and
- 2 taxi.
- 3 Q Is this done annually or how often?
- 4 A I know the engine run and taxi is a two year
- 5 recurrent training issue. Air worthiness and --, if I'm
- 6 not mistaken that authority was given to our chief
- 7 inspector to perform that training on behalf of Emery.
- 8 I'm sure I've see a memo or a letter authorizing him to do 9 that.
- 10 I think the CPCP training was a one time program that
- 11 they came down and did the training for.
- 12 Q What kind of training does TTS supply for its people?
- 13 A We actually have quite a bit of variety of training.
- 14 A new employee that comes in will receive indoctrination
- 15 training which we call Repair Station 101. It's basically
- 16 an overview of the FARs that apply to the repair station.
- 17
- 18 It covers the TTS forms and any of the tags that we
- 19 use for the aircraft. It goes through the organization of
- 20 the Company, Company policies and procedures. This is
- 21 accomplished actually there's two blocks of this
- 22 particular training.
- The first block is accomplished and the new hire is
- 24 sent out to the aircraft or back to work and they finish

- 1 this up about a week later. It gives them time to compile
- 2 any questions, you know, once they actually were working
- 3 on the floor they may come back and ask about a particular
- 4 tag that they came across and it's just a follow-up, also
- 5 to discuss some of our customers and customer forms.
- 6 Pretty comprehensive class.
- 7 Q How long is that class?
- 8 A The Repair Station 101 is probably three I want to
- 9 think three days for the first block and maybe the second
- 10 block is maybe like a day or so.
- 11 Q What about systems training, airplane training,
- 12 engine training and so forth?
- 13 A We actually, for different aircraft, models that we
- 14 have we have contracted people that were qualified
- 15 instructors to come in and teach DCA, DC-10, we've had
- 16 727. Basically these are normally forty hour courses.
- 17 They cover the airframe systems, operation of the
- 18 aircraft. I'm thinking that we've probably had a couple
- 19 of hundred, couple hundred people through these classes
- 20 over the last three years.
- 21 We also have OJT training which is when an employee
- 22 comes in he's actually on a sixty day probationary period
- 23 that has to do with the person being hired with his
- 24 qualifications from previous employers or wherever he came

- 1 from, we put everyone in a probationary period where he's
- 2 working under direct supervision of a lead and he's
- 3 evaluated, I think it's about every ten days, an
- 4 evaluation form is turned in to say how he's progressing
- 5 through that period.
- 6 It gives us a chance to evaluate someone and to make
- 7 sure that what they say the qualifications they have when
- 8 they came in here, whether or not they meet those
- 9 qualifications and whether we have them assigned properly.
- 10 Q How do you go about choosing people, selecting
- 11 people? What is the process of hiring someone to come to
- 12 work here? A We actually the hiring process is
- 13 obviously based on qualifications. We're looking for
- 14 people that have obviously the aircraft that we're working
- 15 within the repair station, within the industry everyone
- 16 looks for the most qualified person, for whatever the
- 17 amount of pay is based upon -- region. We've sent folks
- 18 to job fairs to find aviation related personnel and
- 19 recruit them. We have people that are x military, which
- 20 may or may not have an AMP certificate but have experience
- 21 on aircraft. Once we bring those people in we actually
- 22 have a program where the company helps the person receive
- 23 their authorizations.
- 24 The company also which is different from any other

- 1 repair station I've seen is that they will help pay the
- 2 expenses of getting this person and airframe and power
- 3 plant license.
- 4 Q How about a rough estimate of how many non-
- 5 certificated mechanics do you have?
- 6 A How many non-certificated. This is primarily going
- 7 to be structural mechanics, the folks that have work the
- 8 sheet metal structural side. An idea currently maybe
- 9 fifteen to twenty that would not have a license.
- 10 Q Do they ever get a license in the sheet metal those
- 11 specialized skills, do they normally does some of them
- 12 go ahead and get licenses or is it possible to work an
- 13 entire career without a license?
- 14 A Actually it is possible to work a career in that area
- 15 without ever receiving a license but we do try to and we
- 16 have, in the past, helped these folks receive
- 17 authorizations because they actually had the training and
- 18 skill practical skills needed to get that.
- 19 It's really up to the person, it's nothing against
- 20 some of them because they're actually very qualified and
- 21 skilled mechanics but they have opted to stay in that one
- 22 -
- 23 Q Just for the sake of being able to talk about
- 24 certification, about how many total mechanics do you have

- 1 at work?
- 2 A Right now?
- 3 Q At this time -
- 4 A I can tell you I reviewed, I was just looking to see
- 5 what the employee count was at the time. We actually had
- 6 about eighty-three airframe and power plant mechanics. We
- 7 had several folks with just an airframe and a couple of
- 8 people with just power plant. We break it out and supply
- 9 this report to the FAA each month to basically say what we 10 have.
- 11 The non-certificated or the structural folks, I'm
- 12 thinking maybe thirty-five or forty at the time.
- 13 Q Do you have working association with the
- 14 representatives from the different customers that
- 15 represent those airplanes? Do you have in your QC area -
- 16 A Yes, normally when a company comes in they will send
- 17 us someone, or a group, to come in and audit the facility.
- 18 I take the group through the repair station, introduce
- 19 some of them to the appropriate directors and managers
- 20 that I feel like they need to know. I keep in contact
- 21 with the people. Usually the director of quality
- 22 assurance or possibly the chief inspector of the operator
- 23 that has an aircraft here.
- 24 Q This is going to sound a little strange but I didn't

- 1 have a lot of time to prepare much here but I just went
- 2 into the 145 of regulations. I grabbed a couple of them
- 3 here and if you don't know I understand because I'm not
- 4 trying to I don't have Regs in front of me either. I've
- 5 just made some notes.
- 6 One of them was 145-39 it deals with personnel and
- 7 management where you have to show capabilities of un-
- 8 certificated persons by either a practical test or an
- 9 employment record.
- 10 I was just curious how you how does TTS, to comply
- 11 to 149-35. You can glance at it right here but it's how
- 12 do you do that?
- 13 A Actually I've heard of some repair stations that
- 14 apply practical tests, probably for the sheet metal or
- 15 structural technicians that work there.
- 16 I think primarily, I can't speak for that time period
- 17 but it seems pretty common that you're basically going
- 18 on previous records. Human Resources would contact the
- 19 person that they were interested in hiring and bring this
- 20 person in and they would go through their records and
- 21 discuss their previous history.
- 22 Q That kind of picks up that next 145-43, you've got
- 23 personnel records right there. Do you have this -
- 24 maintain current roster of management of technical

- 1 supervisor. You've got employment summaries for all of
- 2 these people?
- 3 A Yes, I maintain that in the current status at all
- 4 times. To the degree of the hiring, I was just going to
- 5 say to follow-up, the individual the department manager
- 6 would later talk to that person about their
- 7 qualifications.
- 8 If that person were hired, like I say we have a
- 9 probationary period for sixty days that they're going to
- 10 be evaluated to find out if their skill level matches what
- 11 they said when they came in. It keeps the repair station
- 12 it keeps you from having someone out there that maybe
- 13 had turned in a lot of qualifications but truly couldn't
- 14 perform to that.
- 15 The roster of supervisory inspection personnel is
- 16 basically maintained in my office to identify the
- 17 inspectors, their authorizations for the repair station
- 18 and also any of the supervisory and managers that up to
- 19 Dave Hoffstetler.
- 20 Q 145-57 is performance standards. It states that you
- 21 must maintain a current condition, all manufacturers
- 22 service manuals, instructions, service bulletins that
- 23 relate to the articles -
- 24 A Yes.

- 1 Q How do you go about maintaining the currency of all
- 2 of these manuals? Do you have your own manuals and then
- 3 you have manuals from the operators how do you keep
- 4 track of what is what?
- 5 A Yes, we actually do. The repair station has its own
- 6 manuals that we maintain. The Chief Inspector is named in
- 7 the roster of supervisory inspection personnel as having
- 8 that responsibility.
- 9 The manuals, we have revision services from the
- 10 manufacturers and he calls, I would say quarterly just to
- 11 check and see what the revision status is.
- 12 We maintain a log of all manuals that we maintain by
- 13 the repair station in his office with the appropriate
- 14 revision status and the location of the manuals. The
- 15 customers also supply, different customers supply their
- 16 own maintenance tapes and we also have a means that the
- 17 Chief Inspector, working with the records department or
- 18 technical data department of the operator. They send him
- 19 any updates or revisions and he makes sure that those are.
- 20 Q In my inspection here, whatever it was a month or so
- 21 ago, in the Emery's approved manual that they use for
- 22 their maintenance they have all of these different -
- 23 there's a Douglas Aircraft 1670, SRNs overhaul manual,
- 24 PCs, temporary revisions for the 60 series, temporary for

- 1 the IPC overhaul and so forth. Then we pick up the
- 2 previous operators the United 6077 microfilm there, IPC
- 3 for we've got different wiring -
- 4 A Right.
- 5 Q I go back to the point now, this 145-57 states that
- 6 you would have current manuals for the person that's going
- 7 to work on maintaining this aircraft.
- 8 How do you know that this particular manual they gave
- 9 you is going to be current?
- 10 A How do I know that the manual that was provided to me
- 11 by the operator is current?
- 12 Q Yes. If I give you revision such and such, do you
- 13 cross check it or do you just take that would a mechanic
- 14 go out and pull all the manual that is instructed on his
- 15 task card? A Yes, he would. Other than when you start
- 16 talking about the manuals that we are provided by an
- 17 operator and we're performing work for them under 145.2,
- 18 the operator obviously has the responsibility of providing
- 19 us with current manuals.
- This is also going to be stated in their approved
- 21 operations, in their procedures manual that they will
- 22 state how they update and keep manuals current.
- I don't know of a way that we would go back to cross
- 24 check them or that we should go back and cross check them.

- 1 Q Okay. What is the process of supervision for non-
- 2 licensed mechanics?
- 3 A What is the process for non-licensed?
- 4 Q Yes. How are they supervised?
- 5 A You always have an appropriately rated person that
- 6 supervises their work. For the repair station, every non-
- 7 routine that's completed, that is written from a routine
- 8 card, we have an inspector, a certificated inspector that
- 9 is always buying back their work.
- 10 Not only is there a supervisor, properly
- 11 certificated, the inspector is also looking at their work.
- 12 It seems to maintain a good balance.
- 13 Q Are non-certificated mechanics, is there much of a
- 14 turn-over? Is it average or -
- 15 A The non-certificated mechanics for sheet metal?
- 16 Q Just any of the non-certificated that you have here
- 17 and if there's a difference in the sheet metal, explain
- 18 it?
- 19 A No, not really. It's just non-certificated really
- 20 I've not really seen any difference in the turn-over, per
- 21 se.
- 22 We seem to have a good core group of the non-
- 23 certificated folks that do our structural repairs. No I
- 24 couldn't say that we've had a big turnover.

- 1 Q From your years of experience, in general, do you see
- 2 any do you see any big difference in the amount of
- 3 training given to mechanics that work for an airline
- 4 versus mechanics from a 145?
- 5 A No, to tell you the truth I couldn't say that there
- 6 is a big difference in that. My past experience with
- 7 different airlines is that the person comes into their
- 8 organization, receives indoctrination training on the
- 9 policies and procedures, basically the same thing that we
- 10 do. They learn the company forms and tags for the
- 11 maintenance procedures. Generally they attend a
- 12 familiarization course that may be taught in-house for the
- 13 aircraft they're that the operator is using at the time
- 14 and the RII and airworthiness for leases, we do the same
- 15 training here.
- 16 The safety related training, at this repair station I
- 17 can say that actually follow the best program I've seen,
- 18 as far as a pro-active role to making sure that everyone
- 19 receives this training.
- I would say that truly I've not seen a big difference
- 21 in the repair station or the airline, as far as the
- 22 training.
- 23 Q After the accident there was Emery conducted a Fleet
- 24 Campaign Directive about the bolts and connections of the

- 1 control tabs elevators. What involvement did you have
- 2 here at TTS with that? What did you learn from it? Have
- 3 they gotten back with you -
- 4 A As far as the Fleet Campaign Directive -
- 5 Q Yes.
- 6 A -- and the findings.
- 7 Q What was learned, what was the findings and how did
- 8 you participate in that and -
- 9 A Actually, I have not heard what the findings were.
- 10 Once we actually accomplished the FCD, I think on an
- 11 aircraft that was here at the time. To the best of my
- 12 knowledge, we didn't find anything wrong with it. We took
- 13 the fairings back off and looked it over and no problems
- 14 there.
- 15 The only thing I know about the Fleet Campaign
- 16 Directive is originally it looked like they issued one
- 17 that said, I think the first Fleet Campaign Directive came
- 18 out in February of 2000. No, I'm sorry, February of 2001,
- 19 it went through but it actually didn't tell you which
- 20 direction wasn't very clear as to how the bolt how
- 21 they wanted the bolt to be installed.
- I think approximately a month later, they re-issued
- 23 that Fleet Campaign Directive with a still had the
- 24 original revision a month later. There was a diagram

- 1 showing you exactly the orientation they wanted the bolt
- 2 to be.
- 3 Q If you had other operators find something in their
- 4 maintenance that they find is wrong and they issue out
- 5 Fleet Campaign Directives, wouldn't they normally get back
- 6 to the person that's doing the work. I haven't been able
- 7 to quite understand why they issue these things and they
- 8 haven't followed it up with the person who is actually
- 9 doing the work like that.
- 10 A Normally I would say that you would I'll just say
- 11 that other airlines I've been involved with on this level,
- 12 once they issue something like that and the repair station
- 13 is involved with it, they would come back and say, we
- 14 found this and we want to let you guys know that and
- 15 possibly, especially if it had anything to do with whether
- 16 the repair station had worked on that aircraft that they
- 17 found it on.
- Normally, yes I would say they would follow up and
- 19 give you the results.
- 20 Q That's why I was asking you earlier if you had a
- 21 relationship with other people with Emery that had to do
- 22 with quality control of things or did it relate strictly
- 23 to the representatives that are located here or are
- 24 there other safety areas here that I'm missing that you

- 1 have communication with?
- 2 A To tell you the truth, I guess the communications
- 3 between myself and the Chief Inspector here and their
- 4 Quality Control and Quality Assurance Department sometimes
- 5 was a little bit difficult. I guess trying to reach
- 6 someone or to get them to respond to something, a problem
- 7 or a question we had, as far as how they wanted to do
- 8 this. Ultimately it's their aircraft and they're the
- 9 operator.
- 10 Sometimes we were asked to perform an inspector or
- 11 return something to service that we were not rated to do
- 12 and had to explain why we couldn't do that.
- 13 Q Is that your role to explain that?
- 14 A Yes.
- 15 Q How many times has this occurred?
- 16 A A couple of times I know. An engine that they had
- 17 removed -
- 18 Q We're talking about Emery now?
- 19 A Yes. They had sent an engine here that we don't have
- 20 the capability to return that engine to service and they
- 21 had to contract Wood Group to come down to do that.
- 22 It seemed like it was getting pushed along to the
- 23 point where I basically had to say that we just you
- 24 know, that's it. We can't do it. We don't have the

- 1 capabilities for that.
- 2 I think sometimes maybe there's a little bit of a
- 3 mis-conception between operators and repair stations as to
- 4 what they I think they're looking at taking an engine
- 5 off a serviceable engine off and being able to transfer
- 6 that engine to another aircraft. We can't do that without
- 7 the appropriate paperwork and everything that follows that
- 8 engine when we had not received that.
- 9 Q Do you have a DER working here?
- 10 A Yes, we do.
- 11 Q Does that person receive a lot of work?
- 12 A Actually he does. Based on probably one of the
- 13 biggest things, I guess, would be corrosion. The
- 14 corrosion findings and repairs often times exceed the SRM
- 15 limits and he's called in to provide the approved data for
- 16 us to repair that.
- 17 Q The work scope packages -- the one that I received,
- 18 looking at on this particular accident and we were up to
- 19 about like revision 5 of that. Can you just explain the
- 20 process of the initial work scope and changes to and how
- 21 that might change something how the work is performed on
- 22 an airplane?
- 23 A Actually, the process for the Emery Work Scope is
- 24 that they would send representatives to the company. They

- 1 would bring in the original work skill and different
- 2 managers from maintenance and QA and anyone else that was
- 3 going to be involved with this, with planning also, would
- 4 sit down and we would basically go item by item through
- 5 the work scope. Exactly what they had to we could
- 6 discuss any item at the time and it seemed like, as the
- 7 aircraft came into service here for the maintenance, that
- 8 the work scope seemed to continually expand.
- 9 I think that's based on the problem of finding things
- 10 and pointing it out to the reps here that maybe a Fleet
- 11 Campaign Directive couldn't be accomplished because there
- 12 were differences in the different series of aircraft.
- 13 Different locations for bulk-heads and that type stuff.
- 14 By contacting Emery they would maybe revise an FCD or
- 15 send us additional information. Sometimes that resulted
- 16 in actually quite a few revisions.
- 17 Q Let's take it from just the changes, the maintenances
- 18 changes, how about quality issues. Do you run across -
- 19 have you had since your time here, have you see quality
- 20 issues that have arisen between from the Emery
- 21 airplanes?
- 22 A We have yes. One of the examples, I'll give it
- 23 from a work scope that we had received documentation to
- 24 install the wireless smoke detector modifications and

- 1 Emery had provided us the information to perform this
- 2 installation and it has you installing the smoke detectors
- 3 in the lower part compartment of the plane.
- 4 Basically it seems, I would say a simple
- 5 installation, based on the station number where they want
- 6 these located. After we had performed several of these
- 7 installations, it was Emery had found out, I guess
- 8 through I don't know if this was a line check or someone
- 9 had pointed this out, but the smoke detectors were
- 10 actually supposed to be divided into groups in each lower
- 11 cargo bay, maybe four in the back, three in the C
- 12 compartment.
- The problem was, when they wrote the documentation,
- 14 they didn't take into account where the bulkhead was
- 15 actually located or whether a bulkhead was installed and
- 16 they seemed very upset that we installed the smoke
- 17 detectors in the location that they had asked us to and
- 18 the bulkheads were never mentioned.
- 19 Q Is this done with an EO that's created by Emery?
- 20 A Yes.
- 21 Q So, they had to issue another document to go back and
- 22 I guess they probably had to go back and review the fleet,
- 23 just to check and see which ones had bulkheads and which
- 24 one didn't, what the location was.

- I know we ended up having to move bulkheads around to
- 2 make these match, exactly what they wanted.
- 3 Something like that like I say, we were following
- 4 the paperwork we had. There was nothing mentioned that a
- 5 certain pit had to have this many smoke detectors in it.
- 6 Q Then I'll ask again the same question. When
- 7 something like this happens, and it's possible. I can see
- 8 where stuff like this happens, do you have a follow-up
- 9 system that you get back with the operator and you all
- 10 have some sort of a safety catch in here that can say,
- 11 okay, we got caught here but this is what we need to do
- 12 now to -
- 13 A No, actually not. I couldn't once it was
- 14 identified that there was a problem with it, they pretty
- 15 much took the corrective action, I quess that they decided
- 16 they needed to take, and I think we helped reconfigure
- 17 some of the aircraft for them and never really heard much
- 18 about it at that point afterwards.
- 19 Q I'd like to, just real quickly, go back I know you
- 20 were not here but do you have any information about the
- 21 time it was determined that left and right hand elevator
- 22 dampeners were reversed.
- 23 What do you know about that and what was done about
- 24 that and what have you done to not allow that to happen in

- 1 the future or whatever.
- 2 A Right. The elevators were sent in, as I recall, with
- 3 the dampers mis-matched from side to side and from what I
- 4 understand, and what I've seen of the paperwork they came
- 5 in with serviceable paperwork, stating that they were
- 6 ready for installation.
- 7 I don't know, you know, without having to re-inspect
- 8 another repair station's work, if someone probably would
- 9 not get that involved.
- 10 Obviously, you know now, if we had two elevators come
- 11 in, you know, it's a flag. But at the time, when that
- 12 came in it wasn't noticed and when this was installed,
- 13 also from what I understand, that the full functional
- 14 check, operational check of the elevators was accomplished
- 15 on the ground with no defects reported and I'm not I
- 16 couldn't tell you the whether or not that would have
- 17 effected that form of function but from what I've heard it
- 18 did not.
- 19 The aircraft test flew and left from here with no
- 20 discrepancies on it. I think it was discovered by Emery
- 21 maintenance or one of the pilots had reported difficulty
- 22 with the elevators in flight. Emery had trouble shot I
- 23 assume that they trouble shot that system and found those
- 24 dampers mis-matched and removed and reinstalled them in

- 1 the correct locations.
- They called to let us know what they had found and
- 3 I'm sure they were looking for an explanation for that and
- 4 immediately a TTS uses a maintenance inspection alert to
- 5 identify problems like this. This maintenance inspection
- 6 alert is issued to all the inspectors and maintenance
- 7 personnel will have access to it to keep that for
- 8 happening again.
- 9 That's really all I know of it.
- 10 Q Can you recall if there's been any other type, since
- 11 you've been here, anything else a similar type of
- 12 component or something that could have been sent in that
- 13 you had problems with. Anything that you can think of
- 14 that comes into the facility.
- 15 A Like I say, the flight controls is probably one of
- 16 the biggest issues. We've had problems with, I would say,
- 17 quality issues with one of the ailerons having the
- 18 trailing edge was actually bent. We had to go back and
- 19 repair that. It wasn't from shipping damage or anything
- 20 that we could see from that.
- 21 We have had some Emery parts that actually were sent
- 22 here, were moved from another aircraft and obviously
- 23 that's permissible under their program. However, when we
- 24 received the parts here occasionally it was brought to my

- 1 attention that the part actually required repairs before
- 2 it was put on the aircraft and so you'd have a receiving
- 3 inspector that's hinging in the middle here between should
- 4 I say something because it's the customer's part that they
- 5 sent us to put on their own airplane. Often times we end
- 6 up having to take the part to the shop and do the repairs.
- 7 Q I've got another question or two and I'm about
- 8 finished.
- 9 Generally, it seems like because of the because of
- 10 the -- required overhaul of these flight controls, do you
- 11 take the flight controls off the airplane you're going to
- 12 do.
- 13 A Yes.
- 14 Q And then, depending upon the work scope you send them
- 15 where the customer wants those to be sent?
- 16 A Yes.
- 17 O To be overhauled?
- 18 A Right. We -
- 19 Q And then you receive, from the customer, another set
- 20 of flight controls to reinstall on this airplane?
- 21 A Yes, sometimes, well actually I think most times.
- 22 The flight controls that we sent out were not the flight
- 23 controls we received back.
- 24 I guess due to turn time on the flight controls and -

- 1 Q How long does it take to overhaul a set of -
- 2 A Overhaul a set of flight controls, I'm going to guess
- 3 somewhere between thirty and forty-five days.
- 4 Q I now notice that you all have the capability, or
- 5 should be close to having the capability to doing that
- 6 overhaul yourself, the flight controls, is that correct?
- 7 A Yes, it is.
- 8 Q So you wouldn't have to send them out anymore?
- 9 A Right.
- 10 Q You'll do them here?
- 11 A Yes.
- 12 Q Would that be sounds like that would be a good
- 13 advantage?
- 14 A It would because you actually I personally feel
- 15 like it's the best, if you can, the flight controls that
- 16 come off the airplane and to overhaul them and put them
- 17 back on that same airplane. I think, you know, that
- 18 probably creates some of the problems with different
- 19 modifications that have occurred to the aircraft over the
- 20 years.
- 21 That will be a big advantage.
- 22 Q And 79U, you had a problem of the elevators being
- 23 separated from the control tags?
- 24 A Right.

- 1 Q So if you had it broke down differently again -
- 2 A I think normally they would come in built up as an
- 3 assembly. In this case not sure as far as Willis
- 4 Aeronautical and actually how the flight controls came in
- 5 here but I know they were separated.
- 6 Q Is there tear down reports sent on flight controls
- 7 back to the operator to track in their reliability
- 8 program?
- 9 A I couldn't tell you first hand whether or not they
- 10 have that but sometimes we would get the tear down with
- 11 the flight controls that came in and sometimes not.
- MR. McGILL: I don't have any more. It is now 12:30.
- 13 Can we Clint, let's just pick up with you.
- 14 BY MR. THAYER:
- 15 Q The only one question I had was on the manuals. Do
- 16 you know, or are you the right person to know whether you
- 17 were on distribution for the manuals directly from Boeing,
- 18 McDonald Douglas/Boeing besides the ones you get from
- 19 Emery or do you get everything?
- 20 A Yes, I'm sure we do have a revision service.
- 21 Q So AOLs and service bulletins come directly to you?
- 22 A Yes.
- 23 O That's all I have.
- 24 MR. STREETER: I have no questions.

- 1 MR. HOFFSTETLER: I have no questions.
- 2 BY MR. ROBBINS:
- 3 Q How do you determine who is qualified here to become
- 4 an inspector?
- 5 A How do we determine for the repair section or -
- 6 Q For the repair section.
- 7 A Well, that determination primarily would be made,
- 8 based on their experience level, their knowledge of
- 9 aircraft systems. Obviously an inspector has an important
- 10 role in understanding the entire aircraft as opposed to
- 11 say an avionics system only.
- 12 We're looking for we actually have with the
- 13 Inspection Department right now, we have fifteen people,
- 14 including myself, and the average years of experience is
- 15 somewhere around thirty-two years in aviation. We're
- 16 looking for someone that from previous experience has
- 17 worked as an inspector in the past and if we hired someone
- 18 in we would have to assign them with someone to oversee
- 19 exactly what they were doing, make sure they understood
- 20 the procedures that we have in place at the repair
- 21 station.
- 22 Q Does Emery, they make designated inspectors of your
- 23 inspectors, correct? Some of your inspectors were
- 24 designated as inspectors for Emery, correct?

- 1 A Yes.
- 2 Q All the inspectors were designated or some?
- 3 A If you're speaking of the time period that the
- 4 aircraft was in maintenance here, I'm reasonably sure that
- 5 all of the inspectors that were here at the time were
- 6 designated by Emery.
- 7 Q Okay.
- 8 A Honestly, I couldn't answer that without going back
- 9 and looking but we go through a process that they attain
- 10 the Emery training and then they're authorized in writing
- 11 by Emery.
- 12 Q Does Emery inspect their training records to see if
- 13 they're qualified?
- 14 A Yes.
- 15 Q What other audits or inspections did Emery provide or
- 16 performing at Tennessee Tech?
- 17 A There are audits or inspections they had
- 18 accomplished an initial audit I think when they first
- 19 starting bringing the aircraft into the facility. I have
- 20 a copy of it upstairs. Then, I think, it was probably
- 21 approximately a year ago they came in and performed a case
- 22 audit.
- 23 Q did you ever have an issue that you couldn't resolve
- 24 to your satisfaction with DQA or DQC of Emery?

- 1 A Nothing, no there's nothing that stands up that
- 2 there was an issue that we couldn't resolve. Sometimes it
- 3 took longer than I would expect or would prefer but no, I
- 4 don't think there's anything that was ever left without
- 5 closure.
- 6 Q Okay. Are you familiar with the OM from Douglas or
- 7 Boeing on aircraft maintenance -- document? The
- 8 inspection document from Boeing?
- 9 A From Boeing, yes.
- 10 Q Do you know what it says about flight controls on the
- 11 how it uses flight controls Boeing's recommendation
- 12 for flight controls?
- 13 A No, I could not.
- 14 Q Do you know if the flight controls are called out by
- 15 Boeing to be overhauled, --
- 16 A Yes, I know I'll say this and try to qualify this.
- 17 The paperwork we receive from Emery is an approved
- 18 inspection program and I'm sure that's based on Boeing or
- 19 Douglas recommendations.
- 20 Q But you haven't seen a Douglas document that says
- 21 that it's on condition or over-hauled or -
- 22 A No, I have personally not.
- 23 Q When did you get the overhauled flight controls added
- 24 to your capability list?

- 1 A When did we have it added?
- 2 Q Yes.
- 3 A We actually have the ability to overhaul the flight
- 4 controls based our limited airframe ratings.
- 5 Q Have you always had the facilities to overhaul flight
- 6 controls?
- 7 A Yes. We haven't always had the facility. We
- 8 actually there's another facility approximately a mile
- 9 and a half from here that was set up as specifically to
- 10 overhaul the flight controls.
- 11 Q And approximately when did that become operational at
- 12 the facility off site?
- 13 A I'm thinking that was in August of 2000.
- 14 Q That's all.
- 15 MR. GUNTHER:
- 16 Q Jim, I've just got a couple guestions for you.
- 17 You talked about auditing and case auditing. You
- 18 received audits prior to the accident with 79U. Did you
- 19 get an audit or was there any response from Emery after
- 20 the accident to come look at your facility?
- 21 A They performed, yes they I'm trying to remember the
- 22 time frame, exactly, but they came to the facility and I
- 23 want to say June or July of 2000 and that when they
- 24 actually performed the case audit.

- 1 Q They performed the case audit at that point?
- 2 A Yes.
- 3 Q You talked also we talked about the fleet
- 4 directive. You said that you were aware of it but you
- 5 really hadn't received anything or seen anything. Is that
- 6 because it just wasn't in your line of communication or
- 7 what you do, or was that because you never received
- 8 anything regarding the results of that fleet campaign
- 9 directive afterwards?
- 10 A As far as the fleet campaign for inspection of the
- 11 bolts?
- 12 O Yes.
- 13 A No, I've not received anything or actually I
- 14 haven't also To be honest I wouldn't be sure if I were
- 15 in the line of communication for that. I think I should
- 16 be from providing a substantial maintenance.
- 17 Q Now your title is Quality Control?
- 18 A Director of Quality Assurance.
- 19 Q Quality Assurance. Who does quality control on your
- 20 property?
- 21 A We don't have a designated QC.
- 22 Q Just QA?
- 23 A Yes.
- 24 Q You talked about training also and Bruce had

- 1 mentioned the fact that some of your inspectors were
- 2 designated inspectors for Emery.
- 3 Is there a paperwork process, in other words is there
- 4 an FAA requirement that you have to qualify with that or
- 5 is that something that they have designated your
- 6 inspectors, through writing, to be inspectors on behalf of
- 7 Emery?
- 8 A Actually Emery has to approve the inspector. We have
- 9 inspectors designated as such for the repair station but
- 10 Emery has the final they come and review records, make
- 11 sure that the person has I think they require three
- 12 years of experience on the particular airframe, DC-8, and
- 13 that they had worked as an inspector.
- 14 If an inspector is already doing that or holding that
- 15 job for the repair station, that carries some weight with
- 16 it but Emery has the final say so as to whether someone is
- 17 designated to inspect for them or not.
- 18 Q In regards to training of those individuals, is there
- 19 training then provided by Emery for that specific
- 20 inspector or is that through TTS and this is just a
- 21 paperwork process? A No they actually would
- 22 provide the training.
- 23 Q And when you talked about training before, you talked
- 24 about new hires and how they go through indoctrination

- 1 etc., what do you do for recurrent? Do you have a yearly
- 2 recurrent for some of those individuals, the inspectors
- 3 and the mechanics or how does that work?
- 4 A We do have recurrent training, as far as the repair
- 5 station itself has -- taxi qualified personnel and we re-
- 6 qualify once a year. I was trying to think if there were
- 7 other.
- 8 Q What about some of your structural people or sheet
- 9 metal?
- 10 A There's no requirement for any type of recurrent
- 11 training but it is but they are involved in on-the-job
- 12 training, OJT. As they accomplish a task, maybe that they
- 13 don't really have a lot of experience with, something
- 14 that's different they'll accomplish in OJT training form
- 15 and submit that into their training records.
- 16 Q Frank was hitting on courtesy manuals. Is there any
- 17 one document anywhere that's either posted for inspectors
- 18 or the mechanics, their own shop board, that tells them
- 19 either by a monthly basis etc., or whatever which
- 20 revisions to every manual you have and how is it current
- 21 or the only way they would find that out is either by
- 22 questioning somebody or anything else.
- 23 Do you have any type of bulletin system or anything
- 24 that allows them to know the currency of the specific

- 1 manuals and paperwork that you're using?
- 2 A As far as the maintenance manuals and that goes, no,
- 3 we don't necessarily have any type of bulletin or anything
- 4 that we post for that.
- 5 The mechanic will go into the technical library and
- 6 find the manual we have temporary revisions now for most
- 7 of the information related to Douglas or DC-8s.
- 8 I don't know of a posted revision status.
- 9 O Kind of like the librarian or whoever acts in that
- 10 position. Do they have a log of revisions, do they have a
- 11 listing of those revisions that they can refer to?
- 12 A The Chief Inspector maintains the log of revisions
- 13 and I don't know for a fact that the person that maintains
- 14 the tech library has that log downstairs. I would be
- 15 afraid to answer that either way.
- 16 Q You talk about communications and you cited some
- 17 specific instances with communication problems. Was that
- 18 a personality problem or was it just the fact that you
- 19 just couldn't get your message across to somebody or what
- 20 exactly was happening.
 - A Of course, I can look back now and see some of the things that were going on, but I it was more just that it was very difficult to get a response sometimes. Whether I sent a voice mail message, e-mail, this type thing. They would respond,

but sometimes it would be days - you know, a couple of days.

Often times I had to call back and leave another message or respond in a different way.

MR. GUNTHER: Nothing further.

MR. McGILL: Well, Jim, I think that's it. We've got to switch. Okay.

CERTIFICATE

This is to certify that the attached proceedings before the National Transportation Safety Board

INTERVIEW OF JIM BAILEY

AUGUST 30, 2001 Date:

Place: NEW SMYRNA, TENNESSEE

were held according to the record, and that this is the original, complete, true and accurate transcript which has been compared to the reporting or recording, accomplished at the hearing, that the exhibit files have been checked for completeness and no exhibits received in evidence or in the rejected exhibit files are missing.

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