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MEMORANDUM FOR THE RECORD

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Team Number: 8

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Participants - Non-Commission: Major James Fox, Captain Daniel L. Warnock

Participants - Commission: John Azzarello, Miles Kara, Geoffrey Brown

Note: Please refer to the recorded interview for further details.

Fox entered the military through ROTC in 1990. He received his first assignment in 1991. That was at Tindle AFB in Weapons Control and Training. In February of 1992 he completed his training and arrived at Griffis Air Force Base with NEADS. He was involved in Desert Shield and Desert Storm; as well as in counter-drug operations in Panama.

He became a Weapons Assignment Officer, which is the same as a Senior Director. He has been trained in various possessions, including Mission Crew Commander (MCC). Due to 9/11 and the increase in operations tempo, Fox needed to dedicate most of his time to Weapons. Today Fox is working full-time again as a MCC.

The Senior Director of the Weapons Section, which is composed of the Weapons Controller and the Weapons Controller Technician, monitors a number of teams of controllers who are responsible for military aircraft. The Senior Director's immediate job is to monitor the Senior Director Technician (SDT). The SDC monitors the Weapons Controllers Technicians who are handling direction with the FAA and with all phone calls that need to be coordinated so that the controller can stay on the frequency. Lt. Powell, then Sgt. Powell, was working as a S. Dir. Technician, and so was Ron Bilicia on 9/11.

The Weapons Director Technician is in communication with the FAA and coordinates all issues over airspace. The Weapons Controller speaks directly to the military aircraft, and directs those aircraft on their route progress through all airspace. The progress of orders is from the MCC to the Senior Director, then to the Weapons Controllers, then to the Operations floor.

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Fox recalls that on 9/11 the Weapons Section was preparing for the start of the Vigilant Guardian exercise. They had a more robust staff then would have been normal, but it is a requirement that there be a dedicated team of controllers per group of aircraft. And since a mission can vary in size from a pair of fighters to as many as twenty aircrafts, including tankers and other types of military aircraft, the number of controllers reporting and working at the Weapons Section at a given time can vary.

Fox noted that he first received notification of the hijack from Powell. Fox understands that the FAA was attempting to locate a hijacked aircraft on their radar, and thus made the appropriate call to the Senior Director Weapons Technician to notify NEADS of the situation. He further noted that scramble orders are always directed by either the Senior Director or the Senior Weapons Director.

Fox noted to Commission staff that there are "shout lines" used between different sections on the floor to coordinate timely information. And that these lines are used in a scramble situation. Fox further noted that this timely coordination is practiced and that the NEADS readiness posture is to have fighters airborne after a scramble is issued within 17 minutes.

Pre-9/11 NEADS did not work often with Andrews AFB since it is not an active NORAD base.

Fox had awareness of where the Selfridge missions were taking place on 9/11. The SD for Weapons often keeps national airspace situational awareness since at times the Weapons Controllers at NEADS control flights out to different areas of the country. Though, pre 9/11 there NEADS had a limited knowledge of the exact weapons configuration of their alert aircraft. He believes it was the "default standard" to have a "guns-only" status, and one fuel tank. The alert fighters would possibly have AIM 9s as well. On 9/11 however, the "birds" at Otis AFB were postured with more weapons and three fuel tanks because of the Russian Bear exercise. Fox noted that when a scramble order is issued, the alert fighters must take off as is.

Fox noted for Commission staff some of the technical issues regarding the control of air weapons assets. He noted that A10 fighters are considered "fighters" even though they primarily serve an air to ground function.

The air alert fighters would often have AIM 9s, which are heat seeking, and called "Sidewinders" or "Heaters". Sometimes alert fighters would have AIM 7s as well; which are a radar guided missile and also called "Sparrows". The AMRAAM (Advanced Medium Range Air to Air Missile), or AIM-120, is a medium sized weapons that has its own targeting mechanism that is all-weather, and beyond-visible range. AMRAAMs are also called "Slammers".

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At that point it goes to a "pitbull" flight, which is self directed. At this point in the targeting process, the AMRAAMs internal radar tracks to the target that was designated by the fighter's radar by the pilot.

The F15s can obtain a speed of Mach 1.1 if fully loaded. But when there is more than one tank on the fighter it creates a large amount of drag, which in turn compromises the pilot's ability to control the fighter. Thus, usually when a fighter goes supersonic and is fully loaded it drops two of its tanks beforehand.

Fox believes the F16s armed at an alert mode would be have a max speed of roughly 1.2 mach. He also noted that supersonic speed and maneuverability is not very different between the F15 and the F16.

During day to day operations by agreement with the FAA fighters will not go supersonic overland at an altitude of less than FL 300. There are airspace sections in the US where this can be coordinated. And at further than 10 miles outside the coast a fighter can go supersonic at 10,000 feet and above. These agreements between the FAA and the military do not completely apply in active air scrambles if there is intelligence or reason to believe it is a dire situation. Fox underscored this point by saying that on an active air defense mission the mission is paramount. Pilots have the capability to make their own decisions regarding what is necessary to fulfill their mission; but if a flight goes supersonic the order comes through Weapons. And Fox does recall voicing for the Otis to go "super" directed towards New York on 9/11.

Pre-9/11 Fox understands NORAD's air defense mission as a task to survey and identify all aircraft entering United States airspace. If NORAD was unable to identify an aircraft, then the mission would be to scramble and actively identify. NORAD is also tasked to work with customs on counter-drug operations. Thirdly, NORAD is tasked with defending against a coordinated air attack on the United States.

The NORAD hijack response mission is triggered by the FAA. NORAD's standard operating procedure is to wait for a call from the FAA specifically requesting military assistance. If the FAA does not request assistance, NORAD does not scramble. After a scramble within US airspace NORAD is tasked with surveillance by air at a five mile distance from the target. The mission only changes by agreement with Canada. In Canadian airspace the air defense flight would maintain a trail instead.

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If an aircraft is intercepted over water, NORAD controllers are in charge of the fighters. If it is in airspace over US land, then the FAA does the controlling to create air space clearance; but NORAD still maintains what is referred to as "command and guidance" by a constant radio link.

In the air, both the FAA and HUNTRESS are only speaking with fighters when they have guidance to give. The flight lead would be in charge of the flight's configuration. The lead can have both frequencies in ear, and direct which member of his flight he is

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speaking with. For example, the flight lead could have one radio monitoring and communicating with the FAA, and another radio to his wingman. In the same flight, the wingman would have his flight lead in one radio, and HUNTRESS in the other. Fox commented that this would be a standard configuration.

When considering in flight communications with multiple fighters in the same flight, Fox noted that it is not a confusing. For example, the Langley air defense flight had three F16 ADF (Air Defense Fighter) aircrafts. Those fighters just continue the same system noted above with the third member of the flight. Fox noted that the F16A (a version of the F16) has an UHF, a VHF and a HF radio. It is unique for a fighter to have three radios, but the third is not used for the same type of communication as the other two. In fact, the fighters would rarely use the HF radio. That HF radio is primarily used speak back to a command post at great distance. The Langley aircraft had this (F16A versions); but the vast majority of air defense fighters are F16s are F16Cs.

The basic range for fighters at 10 to 15,000 feet and above for communications is roughly a 150 mile range to one of NEADS radio sites along the coast. If an aircraft is over water the communication is passed through Giant Killer. If over land the communication goes through radio sites at the Centers.

Fox noted to Commission staff that almost every training exercise is for air defense. Their daily "Spades" or AFEs (Alert Force Evaluations) are individual scrambles out of a certain base to ascertain a target or short two hour intercepts to practice identification methods. A small exercise like this or a large scale Vigilant Guardian type exercise all deal with in part identification of an aircraft entering US airspace from over water.

By posse commatadus NORAD was not allowed to intercept aircraft internal to the United States. That mission was considered a law enforcement mission. Fox noted that he was trained to that point of understanding. He noted that this understanding stems from his early training. It was always the understanding at the Operation Floor level that to intercept something that originated in US airspace the intercept would have to be approved from a level over NORAD (ie. Joint Chiefs of Staff or National Security Council). Fox noted the operational knowledge at NORAD was that it would never consider taking that action on its own authority. At NEADS, they would seek higher command guidance.

Fox made the distinction to Commission staff that it is that authority to intercept that needs higher authorization; but that scrambles can be order from NEADS.

Scrambles are often voiced but after a target is identified there can be a "cancel scramble" order voiced. He further noted that it is not statistically considered a scramble unless the aircraft is actually airborne.

Training missions practiced for counter-drug operations are only practiced on aircraft coming in

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In Fox's recollection

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most of this exercise was "in house". In the event of an actual intercept coordination with FAA would begin as an aircraft comes to

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Fox commented that NEADS may give operational radar support on tracks over the Maine/Canada airspace to the FAA.

Fox does not know of a counter-drug intercept that has happened real world at NEADS. He commented that NEADS personnel have been trained, but Fox has never participated in one of those exercises; he does know that SEADS has a greater counter-drug focus.

Fox stated that small scale exercises include scheduled training in the controlled military airspace off the coast. Large scale exercises are completely simulated and would include the entire coordination and steps between the initial intelligence of an event and the deployment response. To Fox's knowledge, Vigilant Guardian was building towards a large scale simulated exercise.

Fox does not recall any real world, actual flying exercises coordinated with FAA to practice hijack procedures. Any live exercises would happen over the off-coast airspaces. Fox believes there may have been live intercepts in practice over the coast that would be with the purpose of practicing hijack scenarios.

Fox recalls a small number of occurrences in which a simulated intercept of a hijacked aircraft coming in from over seas "crashes into something" in US territory. It was always an aircraft coming in from over water. He does not know what the reason for why these flights might have been simulated to crash. He believes that disgruntled pilots may have been a scenario that was exercised. Fox does not recall an exercised situation that the pilots were not controlling the aircraft, or a situation practiced in which there was no communication from the aircraft. Fox noted that other MCCs may remember these scenarios in more detail, or may have been involved with other exercises that interest the Commission.

Fox was a Weapons Controller during the Luftahansa hijack. On that day NEADS received intelligence "far ahead". He was told by a senior director to look at regulations on hijacks. He was told the hijacked aircraft had intentions of entering US airspace, so Fox reviewed the hijack exercises. He remembers later on in the day having Otis AFB aircraft off the coast that took the escort from the Canadian fighters and escorted the hijacked aircraft to a landing. Fox does not recall many of the details.

Fox does not know where the nearest "hot gun" Canadian fighters were on 9/11. But since Canada is part of NORAD Fox does not have expect the process for drawing on Canadian assets to be any different than that for drawing on assets from SEADS or WADS.

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NEADS deals with Boston, Cleveland, New York, Washington and Minneapolis. All those sectors have direct hotlines. They rarely spoke with Chicago, and never to Indianapolis. NEADS worked with ZBW often; so probably coordinated the best with ZBW on 9/11. Centers like Washington and ZNY, who NEADS rarely worked with, were not as familiar with NEADS. Fox stated that this did not effect the coordination on 9/11 since the space of time between the initial notice of hijack and the point at which the military took over the national airspace was only a few hours.

At one point on 9/11 NEADS had a Weapons Control team up for almost every flight. The sector has identified the first team "that sat down", but Fox can not confirm based off his memory. He does not know if there exists a direct record of who was at which position during the course of September 11th. On multiple occasions over the last two years the DOC (the office that supervises the Ops Floor) has asked for this information, but Fox does not know where this information might be.

Usually the Weapons SD Tech and the Weapons SD position are both "plugged in" to the communications board at the Weapons desk. But on 9/11 Fox, the Weapons SD Tech, "very quickly" unplugged and coordinated with the multiple Weapons teams that were being set up on the floor. This affects the amount of times he appears in the recordings. According to Fox, as the day got more organized, at approximately around 11 or 12 o'clock, a Canadian Captain Bilicio came in as another SD and Fox may have plugged in.

On 9/11, the Vigilant Guardian exercise was on hold because of the Russian Bear activity. They were expecting it to begin, and Fox went to perform some administrative duties. As Fox entered the floor, Powell was informing Colonel Deskins, then a Major, of the possible hijack. Deskins was on the Operations floor at the time. That is why Powell spoke to her instead of Nasypany. Powell came back to the desk and plugged into the SD Tech position. Shortly thereafter the Weapons position was voiced to scramble Otis. He remembers asking for a target for the scramble. Eventually the MCC said to direct the fighters towards New York.

Sgt. Powell was the first to inform Fox of the situation. Most of the details, once the Weapons position knew of the possible hijack, would have come into the Huntress ID position. Fox only knew it was in ZBW airspace. He was not informed of the details. At that point, at the Weapons position, they were primarily concerned of where the scramble was to be from, and where the fighters should go. Since it takes a period of time to get the aircraft airborne, it is important to initially know where the aircraft is going. Fox says he does not need the altitude, since that can be adjusted. The speed is important though so that the heading for the intercept will be accurate.

Fox remembers that by the time the scramble order was given Nasypany was in the Battle Cab, and Deskins was no longer there

Once the FAA asks for assistance, if the Battle Commander is not available, the Director of Operations (DO) has the authority to scramble aircraft. Colonel McNealy was the DO on 9/11. It would be procedure to check with the Battle Cab and the DO before an MCC

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would issue an order to scramble. Fox has seen the scramble order voiced before without the DO, but the MCC would immediately be informed.

Once Fox received the scramble order on 9/11, he told Sgt. Powell to activate the scramble line and head the Otis alert fighters towards New York City.

They brought the fighters out over water since that was an easier route for command, guidance, and control from Huntress ID. Coordination with the FAA regarding clearing airspace over the United States may have hampered the progress of the fighters if the fighters had been vectored to approach New York City over land.

Commission staff begins to use documents of the fighter track to assist the interview.

On 9/11 Fox had limited information. Fox explains to Commission staff that the vector given to the fighters was off magnetic north; pilots always operate off of magnetic north. The basis for FL 290 is that it is simply an appropriate altitude for fuel efficiency. That is a default altitude if there is limited information on the reason or destination governing a hijack. When he launched the fighters, he asked the MCC for information. Nasypany only gave the information to head them to New York City, and, according to Fox, it is possible that Nasypany may have had more information than what was given to Fox.

The fighters left Otis headed towards the Northeast which is the quickest route out from the Otis runway and alert barn. They performed a tight turn, and moved towards their assigned vector. They were told to hold south of Long Island, and Fox directed the WD Tech to pick up a new heading in line with this.

Fox explains that when the scramble line is activated all necessary facilities are simultaneously notified.

Commission staff shows Fox a rough transcript from the MCC position, and begins to play an audio file provided to Commission staff by NEADS labeled DRM1 DAT 2 Channel 2 MCC.

Major Fox explains that a "Z" track is a track that is put into the Q radar system that is not meant to move. It is meant to be stationary and mark a position for an aircraft.

According to the transcript at 8:40 AM, MCC Nasypany asks Fox to scramble Otis. Nasypany tells Fox to scramble to a Z point north of NYC. Fox explains that he has a latitude longitude point.

Fox explains to Commission staff that voicing a 290 vector may indicate it is an actual track of where the target is headed. The FAA coordinates the vector for the fighter to avoid aircraft. The FAA inserts a flight plan of what the fighters want into the FAA computer systems so that the path of the fighters can be cleared. Fox expressed to Commission staff that if the FAA believes it may be difficult to clear an area, and may

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take a period of time, the military would want this information; but, based on his experience, the FAA would probably not communicate the information.

Fox explains that ideally aircraft are scrambled to a projected intercept point as opposed to a current location of the target.

At 8:52 AM on the tape when the information that an aircraft hit the WTC reached Fox, he looks for more updated information as to whether or not the scramble mission is still necessary.

At 8:54 AM Fox is told to continue the fighter's flight towards JFK airport. Fox does not remember if the fighters were airborne yet. But he does suggest to Nasypany that the quickest route is over water. Nasypany tells him to work with the FAA on clearing aircraft. Fox notes that the traffic in the area at that time is extremely heavy and would need to be cleared.

Powell, Gardner and Bilucio were all sitting at the Weapons desk on 9/11.

The controllers at Huntress actively attempted to coordinate with the fighters to maintain the best course for intercept and to stay away from FAA controlled aircraft. The control of the aircraft in air is through the FAA, and at 8:55 the fighters were told to go to JFK at 260. This heading would put the fighters south of JFK. Fox decided that if the fighters followed a course to place them in one of the warning areas, they could hold outside of New York and wait for an accurate position.

Fox was informed that the last known position for the AA 11 is 20 miles south of JFK, and attempted to get other accurate information on the flight.

According to the transcript at roughly 8:56 AM they were informed that AA 11 was the aircraft that hit the WTC. Fox believes this information came from a ZBW call to Huntress that informed them that ZBW was almost certain the flight that hit the WTC was AA 11.

According to the transcript, between 9:03 AM and 9:04 AM Major Nasypany told Fox that there was a report of "a second hit" on the WTC. The fighters at this point were off the tip of Long Island. Fox guessed that the fighters were roughly 100 or 120 miles out of New York City.

Fox estimates that if at 8:53 FAA had passed situational awareness to the military regarding UAL 175's location, the Otis fighters "barely" would have gotten to NYC. Fox continued this line of thought and noted that they would not have been able to 1) find the aircraft (fighter radar would not have been able to pick up the aircraft in the midst of the buildings in NYC, and the pilots would have had to visually make contact with the aircraft); 2) intercept the aircraft; and 3) receive permission from a national command authority that gave permission to shoot. Fox explained that the lower an aircraft flies the harder it is for fighter radar to distinguish the target from terrain and buildings. It would

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have been "nearly impossible" for the radar to pick up the aircraft. The process would have potentially taken longer than the actual flight from Otis.

Sometime during the initial events there was a CNN feed piped into the Battle Cab. That morning Fox does not recall seeing the second impact, or CNN. After ZBW reported that they believe AA 11 crashed into the WTC to NEADS, Fox does not recall discussion that AA 11 was not the airplane that hit the WTC.

Fox was receiving information regarding the hijack through the MCC. It is the MCC's job to continually inform the Weapons Desk on any amplifying information so the Weapons Desk can acquire its target, and facilitate the intercept.

The armament configuration on 9/11 was referred to around 9:20 AM as "F15s with zero (refers to AIM 120s), 2 (AIM 7s), 2 (AIM 9s) by gun (armed guns). The expression used for how the fighters would engage the commercial airliner if a shoot down order had been given was "Heaters in the face"; this indicates the suggestion that the fighter head towards the target aircraft and fire heat seeking missiles. At some point during the day NEADS received authority to shoot down aircraft that were deemed hostile by CINC, NORAD, and/or others. He believes this was sometime after the Pentagon impact (9:37 AM). Without reviewing more transcripts, Fox stated that the MCC was most likely thinking ahead when he gave the above statement. (audio file 49:00 mark)

The point at which the MCC communicates to the Weapons section that fighters from Langley need to be scrambled and headed towards Washington is Fox's first indication that "there is more going on".

Fox explained to Commission staff that he might have known that there were additional hijacks, but he does not have any awareness of it possibly being the same airplane that the Weapons section was already dealing with.

Regarding the Langley fighters, the F16 ARFs can carry AIM 120s, but the F 16 Cs cannot. The exact load is recorded on transcript.

Fox comments once again that the reason to give the scramble fighters a FL 290 is most likely independent from the last known altitude of AA 11.

Fox explains that the Langley fighters usually headed directly east to a corridor ten to fifteen miles off the coast before they turn east and are handed to Huntress. This expectation is based on what the FAA always does. Fox would hope that the fighters would get turned immediately north to 010. But they were turned 090 for 60 (miles), which would take the fighters to the corridor. They would enter the corridor and at some point be released to Huntress. That information is based on Fox's knowledge of the Langley airspace.

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Fox developed scramble headings at the position, on 9/11, by using a track roll ball to a point on the screen where they are looking to go (OPED). He selects the to and from points and is given a point from the computer.

At 9:09 AM Langley was ordered to "Battle Stations", and to scramble at 9:24 AM. Fox remembers that they may not have been scrambled until the fact that there may be a third hijack headed to Washington; so not until that information comes through is the actual scramble ordered. Fox thinks that putting Langley at Battle Stations was a precaution. He notes that it is common practice that as soon as one tactical action is taken, the next steps are prepared for. Langley would have been put on Battle Stations to relieve the Otis fighters. Most likely the order would have come from the Battle Staff to the MCC.

Whenever the data picks up that the fighter is tracking east as opposed to north is the point at which Fox and the Weapons section knew the fighters were not on the north heading. That deviation from the optimal heading came through the FAA in order to put the fighters in the clear airspace corridor off the coast.

This makes an appearance that the FAA did not send the fighters on the course Huntress requested. Fox noted that since the FAA "owns" the airspace, they can do as they want. Fox made the analogy that historically the nation builds up its military prioritization in time of war. From an FAA point of view, short of the preparation for all out war, the FAA reserves the right to what they want until the point at which they decide the military is a priority. It would not surprise Fox to learn that Washington Center did not have the same sense of urgency that is being conveyed by Boston Center, or by the scrambled fighters.

At 9:37 AM the Langley fighters are turned off the 090 (degree) heading, and changed to a northern heading. Fox notes that NEADS normally gives the FAA a little leeway when it involves directing fighters away from air traffic, so NEADS probably would have given the FAA some space moving the fighters on the 090 degree heading, but eventually the WD Tech or the SD Tech would have moved for the fighters to take the correct course – to "snap north" – quickly. Fox thinks at the least it should be a joint responsibility to coordinate and direct a scramble, instead of it being controlled by the FAA unless the ATHIO is given. Fox explains that if there is a real world air defense scramble order, he would like if the FAA gave the fighters the highest priority. Fox believes that on 9/11 the FAA should have been fully aware that it was a real world scramble out of Langley. Fox would expect the pilots to check in with NEADS regarding the heading. But he does note that the area they would pass through is extremely overlaid. So it would not surprise Fox if out over the coast – the mouth of the James River south of Langley and north of Oceana – not over open water, would be the first area the pilots would have the chance to speak with Huntress. If the pilots are jumping between the FAA agencies on the radio they may not have had the time to speak with NEADS. For Huntress to know they were off course would take either a notice of the change in course on the Huntress radar or for the pilots to notify Huntress.

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As the other scramble was called there should have been another Weapons team brought in. Fox is not absolutely sure if another Weapons team was brought in at that point. It would be the WD team when they get in position to monitor those fighters.

To set up for a new WD team is complicated – a necessary step to control another air defense flight. It does take a solid five minutes before the team begins to observe radar data. The WD relies on Command Post calls that fighters are airborne. The second notice would be an FAA call to transfer the fighters over (that would be the latest). Ideally when the Command Post calls to inform that is when the WD Tech and WD begin actively watching the radar.

After the scramble from Langley the only instructions that the Weapons Desk was asked to give the fighters was to head them towards Washington, DC.

Around 9:32 there is an FAA transcript that reads that Huntress wants the fighters to start to move towards Washington, and move towards Baltimore. After reviewing the audio file, staff learns that the direction given is for BWI. This vector is related as 230 degrees. Fox noted that as far as the range on the old Q radar system Baltimore and Washington are for all vectoring purposes co-located. Quad 24 mentioned it was squawking Quad 7 (beacon code 7777), which is an indication that the pilots had been given the authorization to intercept.

Declaring AFIO and Quad 7 is a statement that the pilots are excepting all responsibility for any air incident resulting from the pilots clearing their own airspace. Quad 7 and AFIO had only happened once previously in Fox's entire career. The lowest level that Quad 7 and AFIO can be declared is from the DO (Col McNealy) position. Fox believes prior to September 11th AFIO had only been declared once.

If the FAA had put the fighters scrambled on a 010 heading from the initial scramble, Fox approximates that they would have been at the most 10 to 20 miles south of Washington headed north at the time they were actually turned. In this case they definitely could have gotten to Washington, and there may have been time to acquire the target and perhaps intercepted. Fox was receiving the guidance to vector them directly to Washington. The fighters probably would have been pushed at a greater point. It is an extremely congested arrival/departure area. They could have gone afterburner until short of that area, and then slowed a bit to intercept. It has been reported officially that the impact at the Pentagon is roughly 9:37 AM. If the FAA had been aware of the location of AA 77 at sometime between 9:09 AM and 9:24 AM then the Langley fighters might have been in position in the area to intercept AA 77, according to Fox. But he notes that if they knew in that time frame and were able to give a position Langley could have launched earlier. Fox speculates that if they had five or more minutes and had gotten the position in timely manner they would have had time to intercept; but that the orders would still have taken time.

Military controllers have to communicate to the fighters the traffic ahead of the fighters at numerous scopes. The positions are trained to do this, but are not "federally qualified" so

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it can be difficult for the controllers. The flight leader confirmed with Huntress that his full team was squeaking Quad 7.

Fox knows that there was a concern of a hijack headed towards Cleveland, and he knows that there was some effort to alert Toledo AFB.

There is a point in the audio file at 1:20:00 that the MCC expresses frustration with Giant Killer. Fox explains that at Giant Killer there are FAA controllers. The reason they are certified to work with the FAA is because they follow the same procedures of the FAA, and are FAA controlled. Giant Killer is a Navy operation, and is tasked by the FAA. The scope operators are military personnel but are FAA controllers.

NCA is the National Capital Area. Nasypany at this point has received a preliminary report that the Pentagon has been hit, and was looking for fighter coverage.

Fox, speaking at the lower operations level not the official level, notes that there was not too much discussion about this. He notes that it was commonplace that the FAA would have acted that way. There was no long term discussion about it, in particular since their jobs got much more intense in the months following 9/11. With the severity of what had happened and the increase tempo of operations there was not, according to Fox, any real time devoted to discussing the FAA's actions on 9/11 regarding the Langely fighters' coordination.

Sgt. Satino may have been the technician talking to Quit 25, and sitting with Sgt. Huckibone.

Post 9/11, at NEADS Fox noted to Commission staff that the radar capability has increased ten fold at least. Coordination with the FAA is better, especially through the DEN line, according to Fox. He continues by explaining that the DEN line will help coordinate quicker. He would like to see better radar picture coordination; he would like to see those pictures be linked operationally. NEADS generates its picture with the new radar they have. There are deployed people in Washington who see the same picture as the radar operators at NEADS. He would like to see total coordination with these technologies.

When SCATANA and NESCAT operated, it worked for the military. Fox does not want to see military control over civilian aircraft. Initially post-9/11 there was little resistance by the FAA against having military fighters operate in and out of the caps. But now there is more and more resistance on the FAA side to allowing fighters to perform their operations as best they can.

Fox believes a generated air picture, tracks, and radar data being coordinated and simultaneous would be a large step towards greater situational awareness. The military is gathering the same data from the same radar, but the FAA generates its own set of data. The military computers take that data and generate their own necessary data.

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Communication is good but could still be better between the FAA and the military, according to Fox. Fox notes that one of the first things done for new recruits for military positions is to send that personnel to an FAA center to review those operations and be familiar so communications are easier.

Hotlines to sectors are not present to Chicago, Indianapolis or Kansas City. There are multiple sectors at which there is not even one voice page hotline. The DEN line is a good step, but on the operational side the communication could be better.

On 9/11, the capability for the radars on the coast is to give information at most 150 miles, and the radar will not see below 10,000 feet. There was radar coverage for the Langley fighters on their way to Washington. There was no good low level picture. There was enough coverage so they could bring the fighters to Washington, but the extent of the coverage and thus the ability for the fighters to communicate was less.

The Chicago area had an extremely limited amount of coverage, and only at 30,000 alt. NEADS would not have been able to speak with them.

Fox noted that there was relatively positive coordination with the FAA in three or four missions prior to 9/11. This positive coordination was increased by the fact that the FAA is now helping with 8 or 9 flights a day.

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1/22 MAT Fox

Inaccuracies

- ① Scramble Orders come from MCC
Implemented by SD or SD Tech
- ② NLT 15 minutes or less to get
airborne — as long as he can remember

Bearing & heading are nebulous

F16 mission F16ADF since F16

Corrected notes that it was in Boston's
air space ^{Allyach}

Qid 24 mo

Frustration w/ GK was WDT

He was not tied to a specific position
a team {WD also ^{may} not as Air Weapons Officer
WDT — handles telephones
Directs AC
Fin Comms

TT monitor all air traffic
make sure we're

Validated

FAA wants to hold in 105

"Transfer of Flight"