Ms. Lisa Cunningham  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region III (3HS11)  
1650 Arch Street  
Philadelphia, PA 19103-2029

Ms. Margaret Pollich  
Project Officer  
Environmental Cleanup Program  
PA Department of Environmental Protection  
2 East Main Street  
Norristown, PA 19401-4915

Dear Ms. Cunningham and Ms. Pollich:

Enclosed are Responses to Comments (RTCs) regarding the Draft Historical Radiologic Assessment (HRA) for former Naval Air Station Joint Reserve Base Willow Grove. Because of the limited number of required revisions, the attached page changes within the RTCs represent the draft final document.

Per the Federal Facility Agreement, the draft final document will become the final document thirty days from the date of this letter. The Navy will provide copies of the final document to the EPA (three copies), PADEP (two copies), and to the information repository.

Should you require any further information, please contact me at (215) 897-4904 or e-mail willie.lin@navy.mil.

Sincerely,

[Signature]

WILLINGTON LIN, P.E.  
BRAC Environmental Coordinator  
By direction of BRAC PMO
Enclosure:
Responses to Comments for Historical Radiological Assessment (HRA) for former Naval Air Station Joint Reserve Base Willow Grove, PA, Tetra Tech, Nov 2012

Copy to:
NAVSEA RASO (L. Lowman, P. Owens)
Horsham Air Guard Station (Capt. Foulkes)
Horsham Local Redevelopment Authority (T. Ames)
Horsham Township Library
Tetra Tech (A. Frebowitz, L. Bailey)
Administrative Record
RESPONSES TO COMMENTS ON THE DRAFT NAS JRB WILLOW GROVE HISTORICAL RADIIOLOGICAL ASSESSMENT, WILLOW GROVE, PENNSYLVANIA DOCUMENT DATED: November 2012

This document presents the Department of the Navy's responses to comments (RTC) provided by the United States Environmental Protection Agency (EPA), Region 3 on the Naval Air Station Joint Reserve Base Willow Grove Draft Historical Radiological Assessment (HRA) dated November 2012. EPA comments are dated March 12, 2013, and were received March 12, 2013 (via email).

<table>
<thead>
<tr>
<th>Comment Number</th>
<th>Reference</th>
<th>Comment</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General</td>
<td>General radioactive materials in the form of airplane gauges and dials, radioluminescent personnel and aircraft markers may have been disposed in the landfills at the site prior to 1967. The common practice of burning materials in trenches prior to disposal could make radioactive material susceptible to migration in soils and groundwater. This may suggest that the contamination potential is possible at the Privet Road Landfill, Ninth Street Landfill and South Street Landfill.</td>
<td>IR Site 1 (Privet Road Landfill), IR Site 3 (Ninth Street Landfill) and IR Site 12 (South Street Landfill) were all listed as impacted areas in the HRA. A scoping survey for each site was recommended. The development of scoping surveys will include consideration of soil and groundwater sampling.</td>
</tr>
<tr>
<td>2</td>
<td>General</td>
<td>There is no information to suggest that the landfills have liners or covers to protect groundwater from rain water infiltration and subsequent leaching. Plans to conduct a</td>
<td>Radiological analysis of groundwater will be considered during development of scoping surveys.</td>
</tr>
</tbody>
</table>

Navy Response to EPA
Draft Historical Radiological Assessment
Naval Air Station Joint Reserve Base Willow Grove, Willow Grove, Pennsylvania
<table>
<thead>
<tr>
<th>Comment Number</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scoping survey at these disposal sites include sampling in addition to radiological surveys. Sampling for gross alpha and gross beta, radium in existing monitoring wells may be necessary to discount subsurface contamination if scoping survey results indicate presence of radioactive materials in these landfills.</td>
<td></td>
</tr>
</tbody>
</table>
RESPONSES TO COMMENTS ON THE DRAFT NAS JRB WILLOW GROVE HISTORICAL RADILOGICAL ASSESSMENT, WILLOW GROVE, PENNSYLVANIA DOCUMENT DATED: NOVEMBER 2012

This document presents the Department of the Navy's responses to comments (RTC) provided by the Pennsylvania Department of Environmental Protection (PADEP) on the Naval Air Station Joint Reserve Base Willow Grove Draft Historical Radiological Assessment (HRA) dated November 2012. PADEP comments are dated January 9, 2013 and were received January 9, 2013 (via email).

The following are responses to comments provided by Ms. Margaret Pollich, PADEP.

<table>
<thead>
<tr>
<th>Comment Number</th>
<th>Reference</th>
<th>Comment</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Comment</td>
<td>1</td>
<td>General</td>
<td>The Assessment describes a previous use as a private airfield before it became a naval base. Were radium gauges repaired on-site during the 20 years it was a private airport?</td>
</tr>
</tbody>
</table>
The following are responses to comments provided by Ms. Margaret Pollich, PADEP.

<table>
<thead>
<tr>
<th>Comment Number</th>
<th>Reference</th>
<th>Comment</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>General</td>
<td>The summary excludes any radioactive material from the Naval Nuclear Propulsion Program. Is there any NNPP involvement here?</td>
<td>There was no NNPP involvement at NAS JRB Willow Grove.</td>
</tr>
<tr>
<td>3</td>
<td>General</td>
<td>The Assessment does not mention any possible DU ammunition issues. Has this been considered?</td>
<td>The Pennsylvania Air National Guard's (PAANG) 103rd Fighter Squadron, 111th Fighter Wing operated a squadron of A-10s, capable of firing depleted uranium munitions, at NAS JRB Willow Grove between 1996 and 2008. The PAANG informed the Navy that DU ammunition wasn't managed (stored / loaded / disposed / etc.) at NAS JRB Willow Grove. These activities were performed at munitions depots and overseas operating bases. Table 6-1 has been updated to include all PAANG aircraft, including the A-10, stationed at NAS JRB Willow Grove during their active status. Reference HRA-0426 has been added regarding PAANG operations. These documents are made part of the RTC.</td>
</tr>
</tbody>
</table>
HRA-0404  US NRC licensed items installed on aircraft; requisitioning, possession, use, storage, and disposal of. 22 May 1978. DON.

HRA-0405  Agreement between AEC and DOD for the Development, Production, and Standardization of Atomic Weapons. 21 March 1953. DON.

HRA-0406  Conversion to Navy Radioactive Material Permit (NRMP) Program. 18 May 1987. DON.

HRA-0407  Navy Radioactive Materials Permit No. 08-00023-T2NP, Amendment No. 0. 21 July 1993. DON.

HRA-0408  Navy Radioactive Materials Permit No. 37-00023-T2NP, Amendment No. 0. 18 May 1999. DON.

HRA-0410  Conversion to Navy Radioactive Material Permit (NRMP) Program. 29 July 1987. DON.

HRA-0411  Navy Radioactive Materials Permit No. 45-00023-T1NP, Amendment No. 0. 09 November 1995. DON.

HRA-0412  Navy Radioactive Materials Permit No. 37-00023-T1NP, Amendment No. 0. 15 Jun 1999. DON.


HRA-0416  1966 Command History (OPNAV report 5750-5) submission of. No Date. Silbert, A.J.


HRA-0418  1980 Command History (OPNAV report 5750-5) submission of. 02 April1981. Buesener, C.A.


HRA-0420  Final Record of Decision (ROD) for Site 1 Groundwater. 22 August 2008. Tetra Tech, Inc.


HRA-0423  Transfer and Acceptance of DoD Real Property. 28 October 2011. DON.

HRA-0425  NAS JRB Willow Grove Base Map with Facility List. December 1957. DON

### TABLE 6-1
SQUADRONS AND AIRCRAFT POTENTIALLY LOCATED AT NAS JRB WILLOW GROVE  
PAGE 1 OF 2

<table>
<thead>
<tr>
<th>Name</th>
<th>Years of Use</th>
<th>Branch</th>
<th>Unit or Squadron</th>
<th>Radioactive Components</th>
<th>Radioisotopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3N Canary</td>
<td>1936-1961</td>
<td>Navy</td>
<td>Yellow Perils</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>PV-2 Ventura</td>
<td>1941-1945</td>
<td>Navy</td>
<td>Radio/Radar Unit</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>C-130 Hercules</td>
<td>1957-2011</td>
<td>Navy</td>
<td>VR-64</td>
<td>Circuit breakers, exciter assembly, cabin pressure gauge, ADF radio control, alternate cabin gage, low approach indicator, oxygen quantity gauge, oxygen regulator, glide slope indicator, engine exciter assembly, rate of climb indicator, counterweight</td>
<td>Ra-226, Cs-137, DU (27 components)</td>
</tr>
<tr>
<td>KC-130 (Extended Range C-130)</td>
<td>1962-2007</td>
<td>Marines</td>
<td>MAG-49 (VMA-133)</td>
<td>Flow indicator, emergency parachute, AM/HS Transmitter, bubble indicator, exit marker</td>
<td>Ra-226, Cs-137, DU, H-3 (28 components)</td>
</tr>
<tr>
<td>P-3 Orion</td>
<td>1962-2011</td>
<td>Navy</td>
<td>VP-64, VP-66, VP-1123, VP-2644, VP-2943, CRFW-593</td>
<td>Not Listed in Reference</td>
<td>Ra-226, H-3 (3 components)</td>
</tr>
<tr>
<td>RFU-1 Crusader</td>
<td>1964-1999</td>
<td>Navy</td>
<td>VR-931, VR-932 and VMA-511</td>
<td>Handles</td>
<td>Ra-226 (2 components)</td>
</tr>
<tr>
<td>C-9 Nightingale</td>
<td>1968-2005</td>
<td>Navy</td>
<td>VR-52</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>C-12 Haron</td>
<td>1974-2011</td>
<td>Navy</td>
<td>VR-52</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>F4U-1 Corsairs</td>
<td>1943-1950</td>
<td>Marines</td>
<td>VMA-441, VMA-511, VMA-518</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>R5D (Douglas C-54 Skymaster)</td>
<td>1942-1975</td>
<td>Navy</td>
<td>VR-934</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>16F Helicot</td>
<td>1943-1960</td>
<td>Marines</td>
<td>VMA-511</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
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<tr>
<td>S-2D Tracker</td>
<td>1962-1976</td>
<td>Navy</td>
<td>VS-934</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>AF-11 Fury (U-48)</td>
<td>1955-1968</td>
<td>Marines/Navy</td>
<td>VS-931 and VMA-511</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>C-97 Stratofreighter</td>
<td>1963-1969</td>
<td>AF/PAANG</td>
<td>111th Fighter Bomb Group</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>U-3A/B Blue Canoe (Cessna-310)</td>
<td>1969-1970</td>
<td>AF/PAANG</td>
<td>111th Tactical Air Support Group</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>OA1/A-3B Dragonfly</td>
<td>1981-1988</td>
<td>AF/PAANG</td>
<td>111th Tactical Air Support Group</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
<tr>
<td>OA1-A-10 Thunderbolt II (Warthog)</td>
<td>1988-2010</td>
<td>AF/PAANG</td>
<td>111th Fighter Group/Wing</td>
<td>Not Listed in Reference</td>
<td>Not Listed in Reference</td>
</tr>
</tbody>
</table>

Source: HRA-0006, 0114, 0128, 0188, 0257, 0271, 0413, 0414, 0415, 0416, 0417, 0418, and 0428
111th Fighter Wing presents

HOMETOWN HEROES SALUTE AWARDS CEREMONY

END OF AN ERA CEREMONY

FAMILY DAY

JUNE 6, 2010
Welcome to the 111th Fighter Wing

The staff of the 111th Fighter Wing would like to welcome our distinguished guests, all unit members, past and present, and their families and friends to the Family Day / Hometown Heroes / End of an Era Ceremonies. The Guard is a strong community based organization that certainly would not be successful without the support of our members’ families. Family Day events will be on going throughout the day to honor our families and strengthen their connection to our unit. The Hometown Heroes Salute Awards Ceremony will be the 111th's first of an annual event to honor our members who have deployed and their families. The day will be capped off with the unit’s End of an Era Ceremony which culminates our 86 year flying history with a ceremony and an A-10 flyby, completing the unit’s last combat training missions. Again, on behalf of the staff of the 111th Fighter Wing, welcome to our base and enjoy the day.

111th Fighter Wing Commander
Colonel Tony Carrelli

Wing Executive Officer
Major Christine Munch

111th Fighter Wing
Pa. Air National Guard
Building 203, Room 250
1051 Fairchild Street
Willow Grove ARS, PA 19090
Tel: (215) 443-1500
DSN: 991-1500
Fax: (215) 443-1860
Website: www.111fw.ang.af.mil

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Public Affairs NCO/Journalist
Staff Sgt. Gordon Beecroft

Photographers
Master Sgt. Pat Cashin
Tech. Sgt. Tyrone Mitchell
Tech. Sgt. Alvin Farrow
Tech. Sgt. Marie Harmon

The Public Affairs staff can be reached during UTA weekends at (215) 443-1450. For urgent inquiries, contact the 111th FW Wing Executive Officer at (215) 443-1410. Deadlines for submissions to the August issue of the Sandy Hog Gazette is July 15. E-mail articles and photos for consideration to: pa.111fw@ang.af.mil.
Family Day

Top photo: Tech. Sgt. Cornell Maury, 111th Aircraft Maintenance Sq. with sons and daughter work to assemble an A-10 model.

Vanessa, daughter of Tech. Sgt. Robert Felice, 111th Communications Flight, shows off her Philadelphia Flyer's spirit with dad.

Tech. Sgt. Carolyn Keys, 111th Maintenance Squadron, and her granddaughter Sianni spend some quality time together.

Top photo: A caricaturist sketches a child during Family Day.

Tech. Sgt. Christopher Swisher, 270th Engineering Installation Sq., and his son Isaac assemble an A-10 model.

Top and left photos: Children of 111th Fighter Wing guardsmen were entertained by clowns making balloon animals, while others tested their sports abilities with football and basketball toss, which was provided by the 111th Fighter Wing Recruiting Office.
In August 2008, General Craig R. McKinley, Chief of the National Guard Bureau, sanctioned the Air National Guard Hometown Heroes Salute recognition program. The purpose of this program is to celebrate and honor the significant contribution of its Airmen, families and communities and those special supporters to the mission of the U.S. Air Force and the Air National Guard. The Airmen recognized in this ceremony will include those who have deployed for more than 30 consecutive days in support of Operations Enduring Freedom, Iraqi Freedom, Noble Eagle and other peacekeeping operations across the globe since 9/11 through December 31, 2008. The Airmen will receive a framed letter from General McKinley containing the Hometown Heroes salute coin, and the Airman's children will also receive unique Hometown Heroes Salute dog tags.

Note: If you've deployed for over 30 days since 2001 and did not receive your award at this ceremony, please contact MSgt Lisa Luckenbach at lisa.luckenbach@ang.af.mil. She will arrange for you to receive your award at our next ceremony.
Hometown Heroes Salute


Above photo: (Left to right) Sergeant Major Nicholas Gilliland, Command Sergeant Major of the Pa. National Guard, Staff Sgt. Corey Pierce, 270th Engineering Installation Squadron, Lt. Col. John Quinn, 111th Medical Group Commander
End of an Era

Four A-10 Thunderbolt II from the 103rd Fighter Squadron are sprayed with water by two 111th Fighter Wing fire trucks as the jets taxi in from flying the unit's final combat training sortie during an End of an Era Ceremony held Jun. 6 at Willow Grove Air Reserve Station. The ceremony commemorated 86 years of flying for the unit.

Above photo: Lt. Col. Bill "Griff" Griffin prepares to depart his A-10.

Above photo: Past and present commanders from within the 111th Fighter Wing, 111th Operations Group, 111th Maintenance Group, and the 103rd Fighter Squadron.

Below photo: Col. Howard “Chip” Eissler, 111th Operations Group Commander, is sprayed down at his fini flight ceremony by his family.

Below photo: Lt. Col. Scott “Spartacus” Hreso, Wing Safety Officer, is doused with champagne after his fini flight.

The 111th Fighter Wing's history began with the establishment of the 103rd Observation Squadron in June 1924, based on the sod fields of Philadelphia Airport as a unit in the 28th Division (Army). The 103rd's first commander was Major Charles Biddle, who had flown in WWI as part of the famous Lafayette Escadrilles (volunteer group flying French aircraft before US entry into WWI).

The pilots of the 103rd flew a wide variety of observation aircraft for the next 18 years. The most well-known of these aircraft was the JN-4 Jenny. The Jenny was an open-cockpit bi-plane; but was replaced in the '30s and early '40s with metal-skinned, prop-driven observation monoplanes.

In February 1941, the unit was ordered to active service, performing antisubmarine patrols off the coast of New England. In 1943, the 103rd was given steady upgrades in equipment beginning with the P-39 Airacobras, P-40 Warhawk, and then the B-25 Mitchell. Eventually the unit converted to the F-5C (photo-reconnaissance version of the P-38 Lightning). The 103rd ended up in the China-Burma-India Theater in 1944. It supported US Army forces fighting the Japanese in the jungles there and they stayed in that theater until the end of the war.

The 111th Fighter Wing lineage comes from the 391st Bomb Group (Medium) which was constituted in 1943, with four flying squadrons. It trained at MacDill Field, FL, in the Martin B-26 Marauder and then flew ground attack missions all over Western Europe in 1944. Late in the war, the pilots transitioned to the A-26 Invader aircraft, for combat missions against German railroads, highways, bridges and armor vehicles. For its actions in WW II, the wing was decorated with the Distinguished Unit Citation.

In 1946, the 391st was redesignated the 111th Bombardment Group (Light) and returned back to the Pennsylvania National Guard flying the B-26. The Air National Guard (ANG) was reorganized in 1950 and the wing was redesignated as the 111th Composite Wing. The unit was not directly deployed for the Korean War but many of its unit members were sent into combat there assigned to other units.

In 1952, the unit was removed from active duty status and personnel were returned to the Air National Guard to be part of the redesignated 111th Fighter Bomber Group. The unit transitioned to the F-51 Mustang. In 1953, the wing made the jump from propeller to jet aircraft with the arrival of the F-80 Starfighter and then the F-84 Thunderjet, which arrived in 1954. In 1955, the unit was redesignated the 11th Fighter Interceptor Group and then transitioned to the Air Defense mission flying the F-94 Starfire. The unit finished service in this mission while flying F-89H Scorpion in 1959, an all-weather rocket and missile firing interceptor.

In 1962, the unit made the transition from interceptors to transports, flying the Boeing C-97
Stratotanker. One year later, the 111th ended its 39-year history at Philadelphia airport and moved to new facilities on the north end of the Willow Grove Naval Air Station. In 1969, the unit changed missions again returning to its original roots as an observation unit. The new 111th Tactical Air Support Group initially flew the U-3A Blue Canoe and then made the transition to the O-2 Skymaster.

The Forward Air Control mission was sustained with the unit’s switch to the OA-37 Dragonfly in 1981. The unit made several deployments to Central America in the 1980s to support allied training. The 111th received its current aircraft, the OA-10A Thunderbolt II in 1988. The unit was redesignated as the 111th Fighter Group in 1992 and then as the 111th Fighter Wing in 1995.

The wing deployed to Kuwait in 1995 to support joint combat flight operations for Operation SOUTHERN WATCH over Iraq. The 111th was the first Air Guard fighter unit deployed to Al Jaber and also the first ANG Wing to serve a solo 3-month Operation SOUTHERN WATCH deployment. In 1996, the 111th FW pilots transitioned from the OA-10 AFAC mission to the A-10 “Attack” mission. The second 111th FW deployment to Kuwait occurred in 1999, again to support joint combat flight operations for Operation SOUTHERN WATCH over Iraq. Immediately following the 9/11 attacks, the 111th FW deployed back to Al Jaber yet again to support joint combat flight operations for Operation SOUTHERN WATCH over Iraq and the new Operation ENDURING FREEDOM over Afghanistan. The 111th Weapons personnel assisted in the loading of combat ordinance for the first sorties into Afghanistan during November of 2001.

In October 2002, the wing was the lead unit for a short notice deployment to Bagram AB, Afghanistan. The 111th aircraft supported joint combat flight operations with US Army, Special Forces, and coalition ground forces in Afghanistan for Operation ENDURING FREEDOM. The A-10s were flown and maintained in very primitive and hazardous conditions, yet the 111th personnel flew 100 percent of the assigned tasking for their entire deployment.

About six weeks after returning from Afghanistan, the 111th FW again volunteered to participate in another SWA deployment to Al Jaber AB, Kuwait (fourth visit) from February 2003 - May 2003. The wing deployed for joint combat flight operations, in support of US Army, Marine and British ground forces as part of the initial phase of Operation IRAQI FREEDOM. Wing personnel were initially stationed at Al Jaber before transferring to Tallil AB, Iraq, midway through the initial campaign. The 111th Fighter Wing was awarded the ANG Distinguished Flying Unit Award in 2004 and the Air Force Outstanding Unit Award, with Valor, in 2005.

The unit made two more trips to SW Asia in the A-10 to support combat operations for Operation IRAQI FREEDOM in Al Asad, Iraq in 2007 and again for Operation ENDURING FREEDOM in Bagram, Afghanistan in 2008.

The unit ends its proud and distinguished 86 year aviation history when the final aircraft depart in August of 2010. This weekend's A-10 flyby culminates the final combat aviation training sorties.
The A-10 Thunderbolt II
"Warthog"

The A-10 Thunderbolt II is an American single-seat, twin-engine, straight-wing jet aircraft developed by Fairchild-Republic in the early 1970s. The A-10 was designed for a United States Air Force requirement to provide close air support (CAS) for ground forces by attacking tanks, armored vehicles, and other ground targets with limited air interdiction capability. It is the first US Air Force aircraft designed exclusively for close air support. The aircraft's hull incorporates over 1,200 pounds of armor and was designed with survivability as a priority, with protective measures in place which enable the aircraft to continue flying even after taking significant damage.

The A-10's official name comes from the Republic P-47 Thunderbolt of World War II, a fighter that was particularly effective at close air support. The A-10 is more commonly known by its nickname "Warthog" or simply "Hog". As a secondary mission, it provides airborne forward air control, guiding other aircraft against ground targets.

Although the A-10 can carry considerable disposable stores, its primary built-in weapon is the 30 mm GAU-8/A Avenger Gatling-type cannon. One of the most powerful aircraft cannons ever flown, it can fire large depleted uranium armor-piercing shells or high explosive incendiary rounds. The pilot can fire the gun at a rate of 3,900 rounds per minute. The cannon takes about half a second to come up to speed, so 50 rounds are fired during the first second, and about 70 rounds per second thereafter. The fuselage of the aircraft is built around the gun. The gun's firing barrel is placed at the 9 o'clock position so it is aligned on the aircraft's centerline.

The gun's ammunition drum can hold up to 1,174 rounds of 30 mm ammunition. Another commonly used weapon is the AGM-65 Maverick air-to-surface missile, with different variations for either electro-optical (TV-guided) or infra-red targeting. The Maverick allows targets to be engaged at much greater ranges than the cannon, a safer proposition in the face of modern anti-aircraft systems.

Other weapons include general purpose bombs, cluster bombs, and rockets. The A-10 is also equipped to carry laser-guided bombs. A-10s usually fly with an ALO-131 ECM pod under one wing and two AIM-9 Sidewinder air-to-air missiles under the other wing for self-defense.

Aircraft operated by the 11th Fighter Wing

<table>
<thead>
<tr>
<th>Aircraft</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA/ A-10 Thunderbolt II</td>
<td>1988-2010</td>
</tr>
<tr>
<td>U-3 A/B Blue Canoe</td>
<td>1969-1970</td>
</tr>
<tr>
<td>C-97G Stratofreighter</td>
<td>1963-1969</td>
</tr>
<tr>
<td>F-89H Scorpion</td>
<td>1959-1962</td>
</tr>
<tr>
<td>F-94C Starfire</td>
<td>1957-1958</td>
</tr>
<tr>
<td>F-94B Starfire</td>
<td>1956-1957</td>
</tr>
<tr>
<td>F-84F Thunderjet</td>
<td>1954-1957</td>
</tr>
<tr>
<td>F-80 Starfighter</td>
<td>1953-1954</td>
</tr>
<tr>
<td>F-51D Mustang</td>
<td>1953-1954</td>
</tr>
<tr>
<td>RB-29 Superfortress</td>
<td>1951-1952</td>
</tr>
<tr>
<td>A-26B Marauder</td>
<td>1948-1951</td>
</tr>
<tr>
<td>B-25D Mitchell</td>
<td>1943-1945</td>
</tr>
<tr>
<td>F-5E Tiger II</td>
<td>1944-1945</td>
</tr>
<tr>
<td>P-40F Warhawk</td>
<td>1943-1944</td>
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<td>P-39Q Airacobra</td>
<td>1943-1944</td>
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<tr>
<td>O-52 Owl</td>
<td>1942-1943</td>
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<tr>
<td>O-57 Grasshopper</td>
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<td>O-49 Vigilant</td>
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<td>O-47 North American</td>
<td>1938-1943</td>
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<tr>
<td>O-46 Douglass</td>
<td>1937-1942</td>
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<tr>
<td>O-38 Douglass</td>
<td>1932-1937</td>
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<tr>
<td>O-17 Courier</td>
<td>1927-1932</td>
</tr>
<tr>
<td>O-11 Curtiss Falcon</td>
<td>1926-1932</td>
</tr>
<tr>
<td>O-2H Douglass</td>
<td>1926-1932</td>
</tr>
<tr>
<td>PT-1 Trusty</td>
<td>1924-1932</td>
</tr>
<tr>
<td>Curtiss JN-4 &quot;Jenny&quot;</td>
<td>1924-1928</td>
</tr>
</tbody>
</table>
The 111th Fighter Wing memorial was dedicated on November 8th, 1986 in honor of those who paid the ultimate sacrifice and died during the performance of their duties.

The engraving on the memorial reads as follows:

“To all members of the 111th Group who gave us their best in life, and whose spirits have slipped the surly bonds of earth as the last note of Taps fades away, may each of us answer the final roll call with honor and humility.”

Capt. John H. Batty
Sgt. James W. Chesxeman
Lt. Franklin A. Johnson, Jr.
Sgt. Paut W. Dernoeden
Lt. Robert B. Womble Jr.
Lt. Joel A. White
Capt. George D. Ferrell
Maj. William G. Benn
Lt. Everett D. Munyan
Maj. Samuel N. Busch
Capt. James A. Sculley
Lt. Edward Bernard
Maj. John Herrick
Tech. Sgt. John E. Grabosky
Maj. Deltis H. Fincher
Capt. Philip H. Koykka
Capt. Theodore G. Balosin
Maj. John W. Prout
Lt. Gordon T. Heeke
Capt. William A. Kemp
Maj. John T. Baggs, Jr.
Staff Sgt. David L. Portnoy
Capt. Donald F. Benton, Jr.
Capt. Ronald B. Schatz
Lt. Col. Michael J. Griffin
Lt. Col. Joost van Bastelaar

Aug. 3, 1926
Aug. 3, 1926
July 21, 1931
July 21, 1931
Nov. 4, 1941
Nov. 4, 1941
Sept. 24, 1943
Dec. 20, 1945
May 21, 1950
June 15, 1952
June 15, 1952
Dec. 28, 1953
Dec. 28, 1953
Dec. 31, 1953
Dec. 31, 1953
Nov. 15, 1959
Nov. 15, 1959
Jan. 25, 1961
Jan. 25, 1961
June 16, 1971
Nov. 11, 1976
Nov. 11, 1976
April 18, 1985
April 19, 1985
Aug. 22, 1996
March 28, 1997

DH-4 crash at Langley AFB, VA
DH-4 crash at Langley AFB, VA
O-11 crash at Middletown, PA
O-11 crash at Middletown, PA
O-47 crash at Seagirt, NJ
O-47 crash at Seagirt, NJ
Missing in action
Missing in action
T-6 crash in NJ
RB-29 shot down by MIG in Sea of Japan
RB-29 shot down by MIG in Sea of Japan
T-33 crash in Lake Michigan
T-33 crash in Lake Michigan
B-26 crash in Korea
F-86F shot down by MIG in Korea
F-89 crash in NJ
F-89 crash in NJ
F-89 ejection in Delaware River, PA
F-89 ejection in Delaware River, PA
O-2 crash near Phillipensburg, PA
O-2 crash near Biloxi, MS
O-2 crash near Biloxi, MS
O/A-37B crash in Honduras
O/A-37B crash in Honduras
O/A-10 crash in MD
O/A-10 crash in PA

The memorial is located at the corner of Fairchild and Johnson Streets.
The 111th Fighter Wing expresses its sincere appreciation to PNGAS and the 111th Officers' Association for sponsoring today's events. We would also like to thank the following agencies for their continued support of our Family Readiness Group:

- Aetna
- USO
- Abington Memorial Hospital
- Lee's Hoagie House
- Family Readiness Group volunteers

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**Statewide News:**
View newsletters of our sister units:

- 193rd Special Operations Wing
  - "The Scope"

- 171st Air Refueling Wing
  - "Tanker Times"

- Pa. Guardians Magazine
  - [http://guardians.agppublishing.com](http://guardians.agppublishing.com)

**National News:**
On Guard Magazine
Published every Jan., April, July, Oct.

Airman Magazine
Published bi-monthly and now available online
- [http://www.airmanonline.af.mil](http://www.airmanonline.af.mil)

Digital Video & Imagery Distribution System (DVIDS), DOD News
- [http://www.dvidshub.net](http://www.dvidshub.net)