Tunnel 9 receives a much needed refresh

By Deidre Ortiz
ATA Public Affairs

After three busy years of testing, which includes the longest running test since becoming a U.S. Air Force operated facility, AEDC Hypervelocity Wind Tunnel 9, at remote operating location White Oak, Md., is going through a seven-month major maintenance event.

John Kelly, director of Tunnel 9, explained that an extensive outage for maintenance occurs at the facility every five to ten years.

“Maintenance procedures require an extended outage to maintain, repair and replace components that are nearly opened up,” he said.

Though testing is halted during an outage, the staff at Tunnel 9 remained hard at work. According to Marm, all of the operational personnel are also directly involved in the maintenance and refurbishment of the facility.

“At first glance, it may seem that this would be a great time for the crew to take a much needed break after such a sustained period of high operations tempo,” he said. “Unfortunately, that is not the case since the same operations crew is also the maintenance crew at White Oak.

“Instead system engineers, technicians and support staff shift hours to move from direct customer support to a myriad of activities aimed at maintaining the facility back to high readiness for the turn down for in service testing.

“The test engineering staff has been busy planning for the next decade of customers,” Kelly said since he’s worked in his current position.

“Instead system engineers, technicians and support staff shift hours to move from direct customer support to a myriad of activities aimed at maintaining the facility back to high readiness for the turn down for in service testing,” Kelly said since he’s worked in his current position.

“Testing and business development for the future: Marm stated in their “down-time” the engineers are reinventing instruments, diagnostics and methods to bring an even better knowledge base to customers.

“The test engineering team has been developing their temperature sensitive paint capability, boundary-layer transition diagnostics and new high Mach velocimetry techniques,” he said. And if things were not busy enough, summer is the time when workforce development efforts are on full swing at Tunnel 9, and a group of undergraduates students work together with mutually researches and our staff on significant advances in testing and development.

See TUNNEL 9, page 3

These three large vessels can be pressurized to 40,000 pounds per square inch and are one of the enabling technologies that make Hypervelocity Wind Tunnel 9 unique. During major maintenance they are rolled outside of the tunnel building into a maintenance bay. The gray steel fixture, pictured, is used to extract the central plug out of each driver vessel. (Photo by AJ Spicer)

AEDC test personnel see their work in action

By Deidre Ortiz
ATA Public Affairs

Four AEDC test personnel took the opportunity to join AEDC Aeropropulsion Branch Deputy for Operations, John Kelly on his latest trip to Tole- do, Ohio, to see the F-16 Fighting Falcon engine.

In addition to his work at AEDC, Kelly was an F-16 crew chief at the Ohio Air National Guard (ANG), 180th Fighter Wing. Kelly said since he’s worked at AEDC he’s seen several aeropropulsion ground test personnel to visit the unit and see firsthand how the work at the Complex “supports the warfighter.” On this trip were 1st Lt. Benjamin Hoff, 1st Lt. Michael Parmentier, Kyle Todd and Rich Walker.

“The visit provides the chance to see the experience real world flightline operations,” Kelly said.

The 180th Fighter Wing flies and maintains the F-16 Fighting Falcons, which are one of the F-16s.

Members of the AEDC Aeropropulsion Combined Test Force pose with John Kelly (center) after his retirement ceremony in front of an F-16 Block 42+ with the F100-PW-229 engine from the 180th, Fighter Wing, Ohio Air National Guard. Pictured from left are 1st Lt. Benjamin Hoff, Kyle Todd, CMSgt. John Kelly, 1st Lt. Michael Parmentier and Rich Walker. (Photo Provided)

PW-229, an engine that has undergone accelerated mission testing at AEDC, with more than 10,000 test hours in the sea level (SL) test facility alone. The F100 recently received a Service Life Extension Program (SLEP), which was validated in the SL-3 test cell.

The 180th Fighter Wing was the first operational unit to receive a SLEP F100.

“Our mission is to support the warfighter and a lot of our hands on skills we bring to the test facility every single day,” Kelly said.

AEDC Lead Aerodynamics Analysis Engineer Dr. Donald Malloy was selected as the recipient of the 2015 Senior Civilian Scientist/Engineer Award, one of the awards presented as part of the Air Force Materiel Command (AFMC) Science, Engineering and Technical Management (SE&TM) Awards.

Malloy was selected for demonstrating innovation initiative and technical expertise, leading efforts to increase the safety and performance of current and future military aircraft, resulting complex technical issues jeopardizing the flighting of new capabilities and improving the accuracy in the production of...
The Middle Tennessee Chapter of the American Society of Military Computer

Howard hosts POW/MIA Remembrance Day

By Melissa Warren

American Society of Military Computer

The Middle Tennessee Chapter of the American Society of Military Computers is hosting a POW/MIA Remembrance Day on August 17, 2015, as part of the National POW/MIA Remembrance Day.

This year, the event will be held at the Arnold Air Force Base in Tullahoma, Tennessee. The ceremony will start at 10:30 a.m. and will include a warrior benediction, the laying of wreaths, and speeches from local dignitaries.

The national POW/MIA Recognition Day is observed on the 18th anniversary of the fall of Saigon, Vietnam, and is a day to remember and honor those who were prisoners of war or missing in action.

Arnold Air Force Base hosts POW/MIA Remembrance Day

The event will feature a keynote address by a military veteran, as well as a performance by the Arnold Air Force Base Band. The ceremony will also include a moment of silence and a playing of Taps.

The event is open to the public and is free of charge. For more information, please visit the American Society of Military Computers website or contact the chapter office at (615) 595-4339.

Arnold Air Force Base

Arnold Air Force Base is proud to host the POW/MIA Remembrance Day ceremony. The event is open to the public and is free of charge.

For more information, please visit our website at www.armstrong.af.mil or contact the chapter office at (615) 595-4339.
Senior Master Sgt. Lazarus retires after 23 years of AF service

Malloy from page 1

aerodynamic behavior of future military aircraft.

His efforts consistently ensured that ground test benefits were maximized and delivered timely, accurate and actionable results.

Colleagues and family celebrated with Senior Master Sgt. Patrick Lazarus during his retirement ceremony at AEDC after 23 years of service with the U.S. Air Force.

Lazarus was assigned to Arnold Air Force Base in March 2008, where he serves as the superintendent of the Complex and the Test Systems Sustainment Division. At Arnold, he oversaw more than 600 contract personnel who are responsible for managing an $11 billion test support infrastructure.

He also advised base command on critical concerns and the morale and welfare of 1,500 DOD civilians and contractor workforce.

At the retirement ceremony, Lazarus was presented with the Meritorious Service Medal, First Oak Leaf Cluster for meritorious service.

The award cited Lazarus, distinguished himself in the performance of outstanding service to the United States and AEDC as superintendent.

Lazarus also received a certificate of retirement and appreciation signed by the Air Force Chief of Staff Maj. Gen. A. Walsh III and the AEDC commander Col. Rodney Todaro.

An additional certificate of appreciation was also presented which was signed by the Commander in Chief Barack Obama.

When return to service activity will commence bringing Tunnel 9 back online just in time to support a new set of DOD customers and a facility upgrade expanding the test envelope to Mach 18.

Tunnel from page 1

testing and evaluation technology and analysis.

“I think I can safely say the team at White Oak is looking forward to getting back to testing every day, which in many respects might actually seem like a respite to the long and often unpredictable nature of this type of maintenance activity,” McManus said.

The maintenance project is scheduled to come to an end by September, thereby completing for awards at the Air Force Civil Engineering Center (AFCEC) Restoration Program manager at AEDC, was awarded the AEDC Safety Achievement Award at the quarterly meeting.

Klingensmith, an AEDC aerospace engineer, recently received the William M. Dunne People’s Choice award for outstanding support and lending his engineering expertise to test projects. He also met 100 percent of the test objectives and assisted in saving $1 million in testing.

Klingensmith has worked for AEDC 20 years.

Klingensmith from page 3

By Raquel March

AEDC Aerospace Engineer Gene Klingensmith (right) accepts his Certificate of Retirement from retired Col. Rick Pettit, the ceremony providing official, at the Arnold Lakeside Center, July 31. Lazarus retired from the Air Force after serving 23 years.

Seven of those years were served at AEDC as the superintendent of the Complex and the Test Systems Sustainment Division. (Photo by Rick Goodfriend)

By Raquel March

AEDC Aerospace Engineer Gene Klingensmith (right) accepts the William M. Dunne People’s Choice award from AEDC Commander Col. Rodney Todaro during the AEDC Quarterly Awards Breakfast at the Arnold Lakeside Center July 31. (Photo by Jacqueline Cowan)

Denny Timmons receives AEDC Safety Achievement Award

Timmons from page 1

personnel never got the opportunity to see those jets in person and see them fly. Let alone actually touch the jet and hear the crew chief and pilot during their pre-flight checks.”

Klingensmith on the job.

The maintenance project is scheduled to come to an end by September. The family is scheduled to come to an end by September.

Klingensmith was cited, “for ensuring safety is the number one priority in the execution of the Installations Restoration Program, Military Munitions Restoration Program and Operational Range Assessment projects at Arnold Air Force Base.”

The proactive safety behavior included actions to control hazards conditions, which could cause injury.

Timmons has worked at AEDC since 2006.
AF continues to work with DOD, OPM on cybersecurity incident

By Secretary of the Air Force Public Affairs Command Information

WASHINGTON (AFNS) – The Air Force maintains its commitment to protect personal information from cyber threats by continuing efforts with the Department of Defense and the Office of Personnel Management to assist those impacted by the recent cyber incident involving federal background investigation data.

OPM and an interagency response team, including investigators from the FBI and the Department of Homeland Security, concluded that sensitive information, including Social Security numbers, was stolen from background investigations of 21.5 million individuals.

“We sincerely regret this has happened and that so many people were impacted by having their key information at risk,” said Secretary of the Air Force Deborah Lee James. “Cybersafety and protecting personal information of our personnel will always be a top priority. That’s why we continue to support the DOD and OPM to ensure our personnel are protected.”

While background investigation records do contain some information regarding mental health and financial history provided by applicants and people contacted during the background investigation, there is no evidence that health, financial, pay/interest or retirement records of government personnel were stolen.

“The Air Force has created a toolkit of information for cyber safety and security at https://www.airforce.mil/cybersafety. This site contains details about what information was breaches and what remedial actions and assistance will be made available.

The process

Members of the 23rd Component Maintenance Squadron Propulsion Flight perform maintenance on a TF-34 engine July 27 at Moody Air Force Base, Ga. The 23rd CMS supplies the 74th and 75th Fighter Squadrons with TF-34s in support of Moody AFB’s A-10C Thunderbolt II. (U.S. Air Force photo/Aaron Grimes Naah)

Filler-up

An F-16 Fighting Falcon assigned to the 33rd Fighter Squadron, Homestead Air Reserve Base, Fla., prepares to be refueled over the Gulf of Mexico by a KC-135 Stratotanker assigned to the 507th Air Refueling Wing from Tinker Air Force Base, Okla., as part of an Employer Support of the Guard and Reserve Boss of the Month event hosted by the 462nd Fighter Wing at Homestead AFB July. (U.S. Air Force photo/Bg. Eugenia Ranierez-Griffin)

This day in espionage history

Aug. 21, 1987 – Clayton John Loomis, former convicted of espionage and sentenced to 30 years imprisonment

Aug. 22, 1994 – Charles Dale Slater sentenced to nine years in prison for espionage

Aug. 26, 1988 – Daniel Walter Richardson sentenced to 10 years in prison on charges of espionage, theft, etc.

Aug. 27, 1987 – Allen John Davies sentenced to five years in prison for trying to pass classified information

Aug. 28, 1986 – Jerry Alfred Whittworth sentenced to 365 years for 12 counts of espionage and tax evasion

August 1978 – William Kamplius arrested on charge of selling Top Secret information

By AEDC Industrial Security

• CIA Operations Center watch officer

• Arrested August 1978 on charges of stealing a Top Secret technical manual on the KH-11 (“Big Bird”) reconnaissance satellite and later sold to a Soviet agent

• Disappointed at being told he was not qualified to work as a field agent (he wanted to join the covert part of CIA operations)

• Admitted he had met with Soviet agents but said his intent was a disinformation exercise to prove his abilities as a first-rate agent

• Dec. 22, 1978 sentenced to 40 years in prison

This site contains details about what information was breached and what remedial actions and assistance will be made available.

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Members of the 23rd Component Maintenance Squadron Propulsion Flight perform maintenance on a TF-34 engine July 27 at Moody Air Force Base, Ga. The 23rd CMS supplies the 74th and 75th Fighter Squadrons with TF-34s in support of Moody AFB’s A-10C Thunderbolt II. (U.S. Air Force photo/Aaron Grimes Naah)
Air Force upgrades 100-year-old technology

By Airman 1st Class John Day
14th Flying Training Wing Public Affairs

COLUMBUS AIR FORCE BASE, Miss. (AFNS) – Spatial disorientation, the inability to determine one’s position in an open space, can lead to a dangerous scenario inside a cockpit.

The disorientation is caused when the body’s internal organs do not match up with aircraft instrument readings and what the pilot expects to see. It occurs because current training technology is not built of a high enough quality. However, that’s changing with the implementation of a new simulator, the GYRO Integrated Physiological Trainer II, into Specialized Undergraduate Pilot Training. Columbus Air Force Base joined Sheppard Air Force Base, Texas, in operating the new technology.

The simulator will also allow SUPP students to begin spatial disorientation training before they even enter the aircraft.

“With this you do is let the students get realistic, hands-on experience in an environment much like the one in the T-6A Texan II,” said Maj. Michael Fleming, the 14th Medical Group Aerospace and Operational Physiology Flight commander. “Our new simulator lets them be in the same sitting position and the same posture they would be in while flying and still experience that same spatial disorientation they would experience while flying.”

The simulator exposes users to typical vestibular (inner ear) and visual stimuli found in aviation, teaching them to recognize, confirm, prioritize, and recover from spatial disorientation before they fly for the first time.

The former spatial disorientation simulator device was the Barry Chatman chair maintained, certain body and posture positions while opening on the flight deck. It could give a sense of the effects, but not in a cockpit.

We’re literally replacing 100-year-old technology,” said Capt. Sharon Elliott, the 14th MDG Aerospace and Operational Physiology operations officer. Before we could use the Barry chair to manipulate (spatial disorientation), but now they will get to experience it in the most realistic environment possible.”

Fleming explained how the GYRO IPT II is able to simulate various sensations of roll, pitch, yaw, and the sense of acceleration and context felt during takeoff.

In addition to feeling factors, GYRO IPT II users actually fly by simulating various sensations of roll, pitch, yaw, and the sense of acceleration and the same spatial disorientation inside a cockpit.

The requirement to work long hours of work is a serious challenge that Airmen get the proper care and advice for handling unavoidable sleep loss.

One hard copy of the guide is available; instructions to download can be found at the AFMCwellness.com website or by contacting a local AFMCwellness.com representative.

By January 2016, Antonio-Randolph, Texas, ing.

Air Force promotes fatigue countermeasures

By Air Force Material Command Health & Wellness Team

WRIGHT-PATTERSON AIR FORCE BASE, Ohio – Human fatigue results from sleep deprivation. Fatigue has become a growing concern in the Air Force as sustained and continuous operations, along with global deployments, are stretching the ability of our forces to meet growing mission demands. Some Airmen may question whether fatigue is really a big enough hazard to worry about. Fatigue can decrease an Airman’s attention span and reaction times, and can impair their mental process, which can lead to increased probability of operational errors, mishaps and off-duty accidents. Ensuring that Airmen get the proper amount of sleep has become a serious challenge.

The Air Force defines fatigue as the state of tiredness associated with:

• Long hours of work
• Prolonged periods without sleep
• Physiologic stressors of the flight environment
• The requirement to work at times that are out of sync with the body’s internal clocks, or circadian rhythms

To raise awareness about fatigue and disseminate information to Airmen regarding strategies for its management, the Air Force Medical Operations Agency has developed and published Air Force Fatigue Management Guide. Highlights of the guide include understanding the nature of fatigue, fatigue countermeasures, good sleep habits and advice for handling unavoidable sleep loss.

One hard copy of the guide is available; instructions to download can be found at the AFMCwellness.com website or by contacting a local AFMCwellness.com representative.

By January 2016, Antonio-Randolph, Texas, ing.
By Staff Sgt. Whitney Stanfield
Secretary of the Air Force Public Affairs Command Information

WASHINGTON (AFNS) – Airmen said goodbye and good luck to the Air Force vice chief of staff during his retirement ceremony on Joint Base Andrews, Md., Aug. 7.

Almost 44 years and 18 assignments later, Gen. Larry O. Spencer stood in front of family and Airmen for the last time in his Air Force career.

“God placed me in the Air Force and took me from basic training back to a father,” said Spencer. “I believe this must be classified as a miracle.”

Spencer, a native of Washington, D.C., enlisted in the Air Force in 1971. He earned his Bachelor of Science degree in industrial engineering technology from Southern Illinois University, Carbondale, and became a distinguished graduate of Officer Training School in 1980.

“He was excellent at every job, big or small,” said Air Force Chief of Staff Gen. Mark A. Welsh III. “As a captain, he was listed as one of the Outstanding Young Men of America.”

During his career, Spencer held several extraordinary positions, including the first Air Force officer to serve as an assistant chief of staff in the White House Military Office.

Spencer has told people for years, don’t be scared of competition. That’s what makes us stronger. It’s what makes us a better Air Force,” Welsh said. “And every time people look at the front chants, in Larry’s specialty areas, he tends to be at the top.”

Although retired, Spencer’s heritage will live on in the form of the Gen. Larry O. Spencer Innovation Award, established on March 30, 2015, by Welsh.

The award will annually recognize Airmen who come up with creative and efficient ways to save the Air Force money and time. The award recognizes Spencer’s devotion to Airmen throughout his career and his steadfast support of the “Every Dollar Count” campaign.

“During the next phase in my life, I hope to attend more football games,” Spencer said. “It would be a nice retirement gift if my team did well this year. People have asked me how I feel about being in Washington, D.C. for so long and I can only sum that up with a quote from Martin Luther King Jr., and that is, ‘Free at last, free at last, thank God almighty I’m free at last.’”

The ceremony concluded with a long line of people waiting to say their goodbyes and to thank Spencer for his service.

Air force vice chief of staff retires with nearly 44 years of service

By Timothy Anderl

WASHINGTON (AFNS) – The Air Force’s Innovation Research/Small Business Technology Transfer program office

Critical high-performance millimeter wave seeker technology for high-performance munitions.

By updating, testing and employing demonstration, researchers hope to transition the technology to the Air Force Research Laboratory’s advanced development GBU-X (Flexible Weapons) program.

The GBU-X program is a cross-directorate AFRL initiative that seeks to use high-performance millimeter wave seekers with common interfaces to facilitate rapid technology refresh and configuration of the munition system to meet individual mission needs, and cooperative engagement strategies using networked and select-able effects munitions for increased robustness to countermeasures and improved endgame performance over baseline inventory munitions. The program is also examining supportability and affordability of a family of GBU-X weapons.

“Developing a common architecture that enables modular subsystems to achieve flexible weapon capabilities, while allowing us to refresh the technologies at the pace of battlefield changes, is one of the more affordable and sustainable technologies that we are discovering and developed, is at the core of our mission,” said Dave Howard, AFRL intentional, researcher working on the project.

According to Hayden, the Air Force is interested in a mature automatic target acquisition approach that allows the Guided Smart Seeker to enter into closed-loop operation without a human operator in the loop.

One of the requirements we sought to meet was that the seeker possessed the ability to acquire targets and begin tracking them without....
By James Spellman, Jr.

Launch Presents’ event since 2014.

Hosted by Capt. Nick Laliberte, the government program executive officer for space. “WGS represents a major achievement in military satellite communications,” Laliberte said. “The WGS constellation is an important element of a new, high-capacity common system providing communications capability to our troops in the field.”

Rick Aramando, the Boeing director of Military Satellite Communications, echoed that sentiment. “Boeing is the builder of the WGS fleet and ULA has launched all of the spacecraft so far,” Aramando said. “The satellites supply communications to the battlefield, relay voice calls and data messages from and to Soldiers on the go, and international partners around the globe. I am proud of the hard work and cooperation of the government and contractor teams on this successful WGS launch.”

With more than $400,000 in additional AFRL mission funds, the funds will help mature the phase II project’s prototype technology to phase III, the program that successfully transitions the technologies into military or private-sector use.

The Air Force SBIR and STTR programs are mission-oriented programs that integrate the needs and requirements of the Air Force through research and development topics that have military and commercial potential. The SBIR program was established by Congress in 1982 to fund research and development through small businesses of 500 or fewer employees. The STTR program was established in 1992 to fund cooperative research and development projects with small businesses and nonprofit U.S. research institutions, such as universities.
Flying high: Strike Eagle pilot reaches elite milestone

By Barbara McGuire

AEDC Woman's Club

Established in 1991 as a part of the Arnold Air Force Base, the AEDC Woman's Club meets monthly for breakfast and programs that focus on education, economics, and professional development. The club provides an opportunity for membership information and public and provides the opportunity to meet the AEDC-WC members and to become a member. You don’t need to have military connections or be involved with Arnold Air Force Base to become a member. For membership information call 655-3569. The social hour of the meeting starts at 9:30 a.m. with the business meeting and program beginning at 10 a.m. Reservations and cancellations for the meeting must be made no later than noon, Aug. 25. Make reservations or cancellations by calling 393-2552.

SEYMOUR JOHN

By Airman Shawna L. Keyes

SEYMOUR JOHNSON AIR FORCE BASE, N.C. (AFNS) – Lt. Col. Paul Hibbard, a 333rd Fighter Squadron instructor pilot, the clouds are almost like a second home. Hibbard surpassed the 3,000-hour mark in the F-15E July 22, joining an elite group of fighter aviators.

Six years, a lot of hours, and many fighter pilots accumulate that many flight hours and experience. A second tenure as an F-15E pilot on Sept. 2, 1995, as a student in the first Basic Course at Seymour Johnson Air Force Base.

“My first couple of hours in the Strike Eagle were exhilarating,” said Hibbard. “It’s quite an honor,” Hibbard said. “While amazing and rewarding, I wouldn’t call it exceptional. Aircrews present shows everywhere across the country and Europe. And private collections across numerous churches, businesses and public and provides the opportunity to meet the AEDC-WC members and to become a member. You don’t need to have military connections or be involved with Arnold Air Force Base to become a member. For membership information call 655-3569. The social hour of the meeting starts at 9:30 a.m. with the business meeting and program beginning at 10 a.m. Reservations and cancellations for the meeting must be made no later than noon, Aug. 25. Make reservations or cancellations by calling 393-2552.

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ALC – Arnold Lakeside Center, 454-3350
Café – Café 100, A&E, 454-5885
ODR – Outdoor Recreation, 454-6084
MULL – Recycling, 454-6884
Marketing/Sponsorship – 454-3128
Barber Shop – 454-6987
GC – Arnold Golf Course, 454-GOLF
MG – Mulligan’s Grill, GC, 454-FOOD
FC – Fitness Center, 454-6440
WI – Winga Inn, Lodging, 454-0051
Resource Management – 454-7433
Admin – 454-7779

Dining Room
Thu Sat Sun
5pm 5pm 5pm

ALC

July 2015

1
Movie: Max

3
ALC: First Friday Jam
Cancelled due to holiday weekend

9
FC: Fall Fun Run
2 laps around Fitness Trail
7:30 to sign up and
complete get a t-shirt

10
Movie: Jurassic World

17
ALC: Brushes & Bottles $25
GLC 6pm
Sign up by Sep 11

18
Movie: Terminator

24
ALC: Last Friday Trivia
6:30pm

26
ALC: Last Friday Trivia
6:30pm

Café 100, A&E, 454-5885

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Dining Room
Thu Sat Sun
5pm 5pm 5pm

ALC

July 2015

1
Movie: Max

3
ALC: First Friday Jam
Cancelled due to holiday weekend

9
FC: Fall Fun Run
2 laps around Fitness Trail
7:30 to sign up and
complete get a t-shirt

10
Movie: Jurassic World

17
ALC: Brushes & Bottles $25
GLC 6pm
Sign up by Sep 11

18
Movie: Terminator

24
ALC: Last Friday Trivia
6:30pm

26
ALC: Last Friday Trivia
6:30pm

Café 100, A&E, 454-5885

ALC – Arnold Lakeside Center, 454-3350
Café – Café 100, A&E, 454-5885
ODR – Outdoor Recreation, 454-6084
MULL – Recycling, 454-6884
Marketing/Sponsorship – 454-3128
Barber Shop – 454-6987
GC – Arnold Golf Course, 454-GOLF
MG – Mulligan’s Grill, GC, 454-FOOD
FC – Fitness Center, 454-6440
WI – Winga Inn, Lodging, 454-0051
Resource Management – 454-7433
Admin – 454-7779

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