



Lockheed Martin Management Association Retirees Newsletter

Looking Forward Towards A Wonderful Retiree Future!

OCTOBER 2014

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Boeing's New Spy Plane

01/27/2014

By Casey Frye, CCNN Writer

Boeing successfully ran its 6th test flight for the Phantom Eye spy drone, setting a new endurance record by flying more than 5 hours. That might not sound like much, but it's powered by liquid hydrogen fuel and only produces water as a byproduct. Talk about environmentally friendly!



The unmanned plane has a wingspan of 150 feet and is capable of carrying a 450-pound load. Even though 5 hours is one of the longest flights ever for the prototype (early model) aircraft,

Needed: Staff Help

LMMAR needs volunteers to help keep LMMAR going. We have several vacancies on the Board and we particularly need a newsletter editor. If you think you can help please contact:

Norm Dhom, Membership Chair – (408) 732-2742

Jerry Vaughan, Treasurer – (408) 985-2708

the drone is designed to fly for more than 4 days non-stop at an altitude of 65,000 feet.

“This flight puts Boeing on a path to accomplish another aerospace first – the capability of four days of unrefueled, autonomous flight,” said Darryl Davis, president of Boeing Phantom Works. This is an incredibly important feature for Phantom Eye to have, since its ultimate task will be to spy from the sky with high-tech gear. According to the company, the plane will carry cargo consisting of sensor packages for monitoring, tracking, and communication. They're sure several government agencies like the Department of Homeland Security will be interested in buying the Phantom Eye.

General Characteristics:

Wingspan: 150 ft (46 m)

Takeoff gross weight:

9,800 lbs (4,445 kg)

Cruise speed:

150 kts

Maximum speed:

200 kts

Altitude:

65,000 ft

Engines:

(2) 2.3L 150 horsepower

Endurance:

4 days at 65,000 ft.

Obit—Dale Harris

Dale P. Harris: Feb. 6, 1937, Aug. 15, 2014, Age 77yrs.

Dale joined Lockheed Burbank after graduation from Stanford and his service in the U.S. Marines as a helicopter pilot. He also earned an MBA from USC and a Law degree from The University of San Fernando Valley. He moved to LMSC in the mid-1970's and held various positions in Space Systems Divi-

sion (SSD) until his retirement. His 33 years service included several Subcontract/Material and Business Operations management positions in Special Programs and Milstar and was Director of SSD Business Operations upon retirement. Dale is survived by Penny, his wife of 53 years.

Obit—Kenneth Psick

Kenneth Joseph Psick, 81, of Santa Maria, CA, passed away on July 24, 2014, at home, surrounded by his family. He was a great man with a kind and gentle spirit; a wonderful husband,



father, brother, son, grandfather and also friend to countless. Ken (Kenny) was born December 6, 1932 in Duluth, MN to Peter and Rose (Slinger) Psick. After high school, he enlisted in the US Air Force, became an aircraft mechanic and served abroad, including a stay in Germany. After the death of Peter when Ken was 16, his mother, Rose moved to Powers, OR where she married Francis J Hegarty. While visiting his mother, Ken met and married his

first wife, Geraldine Lysne. They soon moved to southern California where he attended Northrop Institute of Technology and worked towards a career in the Aerospace Industry. He later settled in Los Gatos, CA where he raised 3 children while working as an engineer at Lockheed Missiles and Space Company (LMSC) in Sunnyvale California. Ken spent his last years with LMSC in Florida with his second wife, Donna , working near Cape Canaveral. He retired in Santa Maria, CA where he enjoyed life until his passing. He loved being able to observe launches from Vandenberg AFB from his home and he was also a passionate NASCAR fan. Ken enjoyed a life filled with family, as well as hunting, fishing, rafting, and camping among other pleasures. Ken is survived by his loving wife, Donna , his children; Maureen (Jeff) Andreson, Todd (Sandra) Psick, Phillip "Randy" (Kim) Psick of San Jose, CA , 5 step children, many grandchildren, his cousin George Slinger of Duluth, MN and his nephew Michael Uzalac of Moses Lake, WA. He was preceded in death by his parents and siblings; Herb Psick, Lyle Psick and Lee Skane. Services have been held. You may contact the family via email at: Toddspsick@gmail.com.

Ocean Thermal Energy Conversion

The 10-megawatt Ocean Thermal Energy Conversion (OTEC) power plant Lockheed Martin is designing has set the stage for green energy and big energy savings just by tapping into the ocean's energy potential.

That's the reaction from independent judges in the second annual Environmental Leader Product & Projects

Award competition, who named the OTEC plant a 2014 Product of the Year.



In recognizing the potential being created through the OTEC power plant, judges in the Environmental Leader competition highlighted several innovations and opportunities:

“This technology, as envisioned, could offer electricity to areas that either are remote or have limited conventional power that is, on another level, essentially ‘green.’ It could replace lots of other less desirable fuel and energy cycles for the target consumers.”

“This is the largest OTEC project ever developed and is on the cutting edge. It allows isolated communities to be self-sufficient.”

The annual Environmental Leader awards program recognizes excellence in products and services that provide companies with energy and environmental benefits, or in corporate projects that improved environmental or energy management and increased the bottom line. Environmental Leader's website and daily newsletter provide insight into business-related energy, environmental and sustainability issues.

Just one 10-megawatt OTEC plant could provide reliable, clean energy for

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approximately 10,000 people; replace the burning of 50,000 barrels of oil; and eliminate the release of 80,000 tons of carbon dioxide per year into the atmosphere.

“As long as the sun heats our oceans’ surface waters, the ability to generate reliable, clean, baseload energy through OTEC exists,” said Dan Heller, vice president of new ventures for Lockheed Martin Mission Systems and Training. “We’re honored to provide this technology to the world, and having our work recognized by Environmental Leader is very rewarding.”

Armored Modular Vehicle

DALLAS, Sept. 23, 2014 – Lockheed Martin’s [NYSE: LMT] Havoc 8x8 Armored Modular Vehicle successfully completed the Nevada Automotive Test Center’s challenging Butte Mountain Trail course, one of the most severe off-road test tracks in the world. Teamed with Patria, Havoc is Lockheed Martin’s entry in the U.S. Marine Corps’ Amphibious Combat Vehicle (ACV) Phase I program.

The mile-long course has nearly 1,000 feet of elevation change and extremely rugged, rocky stretches that have damaged and disabled numerous vehicles over the years.

“Over the course of 10 days of testing, we performed more than 40 test runs up and down the mountain while demonstrating the vehicle’s ride quality and crew comfort,” said Scott Greene, vice president of Ground Vehicles at Lockheed Martin Missiles and

Fire Control. “Not once did the Havoc fail. And we were told numerous times that this course has stopped many vehicles over the years, including tanks.”



The testing, funded and conducted by Lockheed Martin, was undertaken to validate the company’s solution to the Marine Corps’ need for a survivable and robust wheeled, amphibious vehicle. The Marine Corps will conduct its own series of automotive, amphibious and protection tests of 16 Havoc vehicles once the ACV program is under way. The program’s Request for Proposal is expected in early 2015.

“Our passengers were complementary of the Havoc’s handling, ride quality, acceleration and braking throughout the demo while at a fully armored weight,” said Patrick Shepherd, Havoc program manager at Lockheed Martin Missiles and Fire Control. “The most highly appreciated design features they noticed were how quiet the vehicle interior was and the smoothness of the Havoc ride throughout the demonstration.”

Havoc is a highly protected multi-mission, fully amphibious expeditionary ground combat vehicle which represents an evolution of the Patria 8x8 Armored Modular Vehicle, a battle-tested design used by armed forces

globally. The modular design allows a wide range of weapons, sensor and communications options to address evolving mission and affordability requirements. Havoc features exceptional mobility and transportability, and can provide protection against a variety of extreme threats.

For more than three decades, Lockheed Martin has applied its systems-integration expertise to a wide range of successful ground vehicles for U.S. and allied forces worldwide. The company’s products include the combat-proven Multiple Launch Rocket System (MLRS) M270-series and High Mobility Artillery Rocket System (HIMARS) mobile launchers, Havoc 8x8, Common Vehicle, Light Armored Vehicle-Command and Control, Warrior Capability Sustainment Programme, Joint Light Tactical Vehicle (JLTV) and pioneering unmanned platforms such as the Squad Mission Support System (SMSS).

Obit—Frank Melendez Boholst

Frank Melendez Boholst, beloved Husband, Son, Brother and Uncle, passed away on Sunday, September 14, 2014 at his home in Los Gatos, California. Frank was born June 29th, 1950 in the Philippines. He immigrated to the United States in 1970 at the age of 21 eventually being joined by his immediate family in the San Francisco Bay Area. Frank earned his Bachelors Degree from California State University, San Jose in 1979 in Industrial Technology/Business. He worked for Lockheed Martin as an Engineer for 32.5 years retiring in 2007 at the age of 57.

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Frank was a life long accomplished Martial Artist who taught at Lockheed Martin and into his retirement years. His Strength, vast wealth of knowledge and giving nature earned him many friends in the Martial Arts community. His Presence will be deeply missed and his energy and vibrance never forgotten.

He is preceded by his Mother (Salome Boholst of Arizona), his Sister (Alice B. Leines of Arizona), his Brother (Roy Boholst of Washington State), Yvonne Anderl Boholst, his loving wife and best friend of 35+ years along with his Nephews and Niece.

A Potluck celebration of Frank's life will be held Sunday, November 9th, 2014 from Noon – 4 pm at Quinlan Community Center 10185 N Stelling Rd, Cupertino, CA 95014.

Lockheed Martin Wins Contracts

By Zacks.com, September 23, 2014, Lockheed Martin Corporation (LMT), the prime U.S. defense contractor, received five defense contracts worth approximately \$268.8 million from the U.S. Department of Defense (DoD) on Sep 19, 2014. The share price increased 0.7% to \$180.74 on Sep 19, 2014 and 22.5% so far this year. The largest among these contracts was a \$146.3 million modification for the procurement of new Trident II (D5) missile production, D5 Life Extension development and production, and D5 Deployed Systems Support. The contract is expected to run through Nov 30, 2019.

Another contract, worth \$34.2 million, was received by Lockheed Martin

Space Systems Co. for the services required for successful activation and support of a Trident II (D5) missile storage facility. The work under this contract includes design, development as well as procurement of facilities, equipment along with processes for D5 missile storage. The work will run through Sep 30, 2019.

Although the threat of sequestration still lurks over this defense major, negatively impacting the company's second quarter 2014 sales, Lockheed Martin seems to be on a winning spree in recent times clinching both big and small contracts.

The company reported a forecast-beating 4.5% rise in second-quarter 2014 earnings per share, backed by strong operational performance. The company raised its 2014 earnings guidance, reflecting lower pension costs and an improved outlook for its space unit. The company recorded positive earnings surprises in the last four quarters, resulting in an average beat of 16.31%.

Currently, Lockheed Martin holds a Zacks Rank #1 (Strong Buy). Other well-ranked defense players include The Boeing Co. (BA), General Dynamics Corp. (GD) and Northrop Grumman Corp. (NOC), all with a Zacks Rank #2 (Buy).

Submarine Force Commemoration

Submarine Force Atlantic Public Affairs, Sep 19
Commander, Submarine Force Atlantic and Commander, Submarine Force, U.S. Pacific Fleet, in conjunction with Commander, U.S. Strategic Command, commemorated the Submarine Force's 4,000th strategic deterrent

patrol, Sept. 19, by conducting dual ceremonies in Bangor, Washington and Kings Bay, Georgia.

The first fleet ballistic-missile submarine USS George Washington (SSBN 598) was commissioned Dec. 30, 1959, and completed the inaugural deterrent patrol in January 1961. Since then, 59 SSBNs have been commissioned in the last 50-plus years. Having patrolled the waters worldwide, the ship has established itself as the most survivable, critical, and efficient element of our U.S. national security and the security of U.S. allies and partners.

"The ballistic missile Submarine Force and the capability it offers is as important and relevant in today's uncertain world as it was when the first deterrent patrols were conducted more than five decades ago," said Adm. Cecil D. Haney, Commander, U.S. Strategic Command. "Commemorating the 4,000th patrol allows us to honor not only the submariners who have achieved this milestone, but also to pay homage to the men and women of our strategic forces who are on watch every day providing our nation with a safe, secure and effective nuclear deterrent against those who might think to do us harm."

Along with strategic bombers and the intercontinental ballistic missiles, the SSBNs make up the third element of the United States' triad of nuclear deterrence. SSBNs are critical, stabilizing and efficient elements of U.S. nuclear deterrence and reassurance, and with their sea-based missile launch capability

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ity makes them the most survivable asset. They carry the majority of deployed U.S. nuclear warheads allowing them to stabilize deterrent relationships and render surprise attacks inconceivable.

"Today, we celebrate a very special milestone in the undersea warfare community as we commemorate the 4,000th strategic deterrent patrol conducted by our fleet ballistic missile submarines," said Vice Adm. Michael Connor, commander, Submarine Forces. "Strategic deterrence has been the sole mission of the fleet ballistic missile submarine since its inception. As the sea-based leg of U.S. strategic deterrent forces, the current 14 Trident SSBNs carry more than 50 percent of the total U.S. strategic warheads. Today's concept of strategic deterrence seeks to deter attacks on the U.S. or its allies, dissuade adversaries from actions counter to stability, and peace, and to assure allies of the United States' commitment to their security."

The current fleet of Ohio-class SSBNs has already been life-extended and cannot be extended any further. They must be replaced by new class of SSBNs to meet the our future strategic commitments.

"The Sailors have done their part to ensure peace and the ships have done their part too as they now start to serve well beyond their original design service life," said Connor. "Now the country must do the same to continue to ensure the peace for our children and our children's children. We must

build Ohio's replacement. There is no more important or more effective use of our national defense spending than to ensure that we build the 12 ships that will enable exceptional Sailors like you to guarantee the peace for future generations."

Vice Adm. Joseph Aucoin, deputy chief of Naval Operations for Warfare Systems, echoed Connor's concerns about the Ohio replacements.

"We as a nation are also demonstrating credibility through commitment to our deterrence strategy, the sustainment of the Ohio class and the procurement of the Ohio replacement. We must procure and maintain a force of Ohio replacement SSBNs, in order to keep them properly postured and positioned to be survivable and to ensure adequate target coverage."

While the material and mission readiness of the strategic deterrent fleet is primary focus areas, these elements would be mute without the personnel readiness of our Sailors. The professional and personal development needs of our Sailors and their families are critical aspects in recruiting and retaining our best and brightest to ensure mission accomplishment in the Submarine Force.

"The submarine is perhaps the most technological marvel ever! As we continue to build and develop new submarines they are becoming even more advanced - quieter, stealthier, going deeper, and armed with highly superior weapons systems," said Vice Adm. Terry Benedict, director, Strategic Systems Programs. "However, this is all for naught if not for the men and now

women of the silent service. Equally - if not more important than the payload or the platform is the Sailor. Our Sailors have and will continue to protect and provide credible deterrence to those who would otherwise wish us harm."

In a letter sent to the Submarine Force, Secretary of the Navy Ray Mabus stated:

"It is my great honor to congratulate Commander, Submarine Forces and all the Sailors, civilians, and veterans of the Submarine Force who have dedicated themselves to achieving this significant milestone - our nation's 4,000th Strategic Deterrent Patrol. This milestone demonstrates not only the far-reaching importance of strategic deterrence to the security of the United States and its allies, but also the significant role the U.S. Navy plays in maintaining this posture.

"History shows us that it is difficult to predict the future of conflict. But it also shows us that we must always be prepared for the threat of conflict. So, I thank you, for protecting peace, promoting global security, and for all you do to ensure the safety of our Nation."

LMMAR Bridge

Sep 2 - Individual duplicate - 1st place - (tie) Roger and A. Bidder and 3rd place - (tie) Dave Himmelblau, Chuck Schmidt., Angie Schynert, and Bob Vigeant. .

Sep 4 - Pairs duplicate 1st place - Angie Schynert & Bob Vigeant; 2nd place - Neil Lieb & Chuck Schmidt.

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Sep 9 – NO GAME.

Sep 11 - Pairs duplicate - 1st place – Gary Bea & Chuck Schmidt; and 2nd place – (tie) Roger Abegg & Ted Hinshaw, Dave Himmelblau & Dave Topka, and Angie Schynert & Bob Vigeant.

Sep 16 – Individual duplicate - 1st place – Dave Himmelblau, 2nd place – Alex Fucile, and 3rd place (tie) Ted Hinshaw and Chuck Schmidt.

Sep 18 - Pairs duplicate - 1st place – Gary Bea & Chuck Schmidt and 2nd place – Angie Schynert & Bob Vigeant.

Sep 23 - Pairs duplicate - 1st place - Dave Himmelblau & Dave Topka and 2nd place - Angie Schynert & Bob Vigeant.

Sep 25 - Pairs duplicate - 1st place – Gary Bea & Chuck Schmidt and 2nd place Angie Schynert & Bob Vigeant.

Sep 30 - Pairs duplicate - 1st place - Angie Schynert & Bob Vigeant. and 2nd Place – (tie) Dave Himmelblau & Dave Topka .and Neil Lieb & Chuck Schmidt.

Korea approves F135-A Purchase

FORT WORTH, Texas, Sept. 24, 2014 – The Republic of Korea finalized its formal selection of the Lockheed Martin [NYSE: LMT] F-35A Lightning II aircraft for its F-X fighter acquisition program, announcing its intent to sign the Letter of Offer and Acceptance (LOA) between the U.S. and Korean governments for 40 F-35A Conventional Take Off and Landing (CTOL) variant jets with initial deliveries beginning in 2018.



“We are honored by and appreciate the trust and confidence the Republic of Korea has placed in the 5th Generation F-35 to meet its demanding security requirements on the Korean Peninsula. We look forward to producing and delivering, on time and within budget, Korea’s F-35A Conventional Take Off and Landing variant aircraft,” said Orlando Carvalho, Lockheed Martin Aeronautics executive vice president. “This decision strengthens and extends our long-standing security partnership and truly enhances the regional stability among our greater Asia Pacific allies.”

Following a comprehensive evaluation process for its F-X program, the Republic of Korea, which first announced its competitive selection of the F-35 over the 4th Generation Boeing F-15 Silent Eagle and the EADS Eurofighter Typhoon in March this year, now becomes the third Foreign Military Sales country to procure the F-35, joining Israel and Japan who selected the F-35A in 2010 and 2011, respectively.

The F-35 Lightning II, a 5th generation fighter, combines advanced low observable stealth technology with fighter speed and agility, fully fused sensor information, network-enabled operations and advanced sustainment. Three distinct variants of the F-35 will replace the A/OA-10 Thunderbolt II

and F-16 Fighting Falcon for the U.S. Air Force, the F/A-18 Hornet and AV-8B Harrier for the U.S. Marine Corps, the F/A-18 for the U.S. Navy, and a variety of fighters for at least 10 other countries. Following the U.S. Marine Corps’ planned July 2015 Initial Operational Capability (IOC), the U.S. Air Force and Navy intend to attain their IOC in 2016 and 2018, respectively.

Internet of Things

Think adjusting your air conditioning or locking your front door from your smartphone is impressive? Think bigger. These once magnificent feats are dwarfed by the capabilities being introduced in the wake of the Internet of Things (IoT).

Industrial Control systems (ICS) and Operational Technologies (OT) have seen their share of buzz words and trends over the years, but the IoT is the latest trend, and discussion of the topic is growing rapidly.

What is the IoT?

The IoT is a computing concept that describes a future where every day physical objects will be connected and identifiable to other devices via the Internet. The term is typically linked to RFIC, QR codes, and other sensor and wireless technologies as methods of communication.

The IoT is significant because an object that can represent itself digitally becomes something greater than the object by itself—it becomes part of an integrated network. The object relates not only to you, but to the surrounding environment including other objects and useful data creating an era of

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“ambient intelligence.”

Markets

A bit of history: back in 2005, “smart grid” was all the rage. Smart grid security took control system and control system security into the main stream. The IoT has the potential to do bigger and better things than smart grid did. Smart grid got the buzz partly because of scale and partly because it consumerized control systems, however, the IoT will handily beat Smart Grid in both categories.



The IoT is connecting new places—manufacturing floors, energy grids, healthcare facilities, and transportation systems—to the Internet. The possibilities seem limitless. In fact, Cisco estimates IoT market to be \$19 trillion dollars. The IoT stole the show at the 2014 International Consumer Electronics Show (CES) with wearable computing taking the lead in the trend and the number of gadgets that were on display.

Characteristics that make IoT similar to OT

Like in operational technologies, the device itself, once programmed, can make decisions without being supervised. Devices also talk to each other and interact. From a technical stand-

point, both IoT and OT are “systems of systems. While OT control systems are closely tied to infrastructure industries, less technical IoT devices such as sensors are now taking over several cities in the European Union. These sensors are automating street lighting, transportation and traffic engineering, building management, emergency management, safety and security management. Perhaps the biggest difference between the two is that IoT devices can be easily used by operators who are less technically savvy.

Security of the IoT and OT: The challenges are the same

Authentication: The IoT is very similar to control systems applications, authentication of devices with corresponding applications is the easier problem to solve. The harder problems to solve are the authentication of external entities - mechanisms to let remote users / remote applications requesting data are the challenging aspects.

Encryption: The challenges that control systems encountered with respect to devices not being able to support sophisticated encryption capabilities would also pester the IoT world. Like control systems, the IoT applications may also struggle with key management across applications.

Segmentation: The IoT will probably encounter more difficulty in the area of segmentation than OT. It is easy to demark OT vs IT and it is not easy to demark the IoT because its boundaries are hazy, just being in the consumer space.

The areas of the IoT and OT have very similar characteristics. Bringing together these technologies can give a big push to security since they face so many of the same challenges. This evolution is and will continue to be a pervasive driver of change by removing physical barriers and escalating connectedness.

From T.S. Elliot Poem—Lovesong of J. Alfred Prufrock

Let us go then, you and I,

When the evening is spread out
against the sky

Like a patient etherized upon a table;

Let us go, through certain half-
deserted streets,

The muttering retreats

Of restless nights in one-night cheap
hotels

And sawdust restaurants with oyster-
shells:

Streets that follow like a tedious argu-
ment

Of insidious intent

To lead you to an overwhelming ques-
tion....

Oh, do not ask, “What is it?”

Let us go and make our visit.

In the room the women come and go

Talking of Michelangelo.

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S U N N Y V A L E , C A 9 4 0 8 8 - 3 5 0 4

OCTOBER 2014

Activity Calendar

- **LMMAR Executive Board Meeting.** First Monday of each month unless holiday conflict, then second Monday. 9:30 a.m. Bldg. 157-Satellite Room (off the cafeteria).
- **LMMAR Newsletter Mailing Session.** Volunteers needed. Second Thursday of each month. 9:30 a.m. Bldg. 157-Litrium. Contact Norm Dhom (408) 732-2742.
- **LMMAR Luncheon.** October 31, 2014 at Michael's at Shoreline in Mt. View. Contact Lucille Wilson at 408.225.9566
- **LMMAR Luncheon.** December 5, 2014 at Michael's at Shoreline in Mt. View. Contact Lucille Wilson at 408.225.9566
- **LMMAR Bridge Card Players.** Join the fun! Every Tuesday and Thursday, 12:00 noon at the Willow Park Condominiums located at the NE corner of Moffet Blvd. and Middlefield Road in Mountain View. Entrance is from Moffet Blvd. Contact Dave Himmelblau, 'phone No. 650 968-1121.
- **Lockheed Martin Blood Bank Drive.** Second Wednesday of each month. 8:00 a.m. - 3:00 p.m. Bldg. 163. LMMAR Contact Norm Dhom (408) 732-2742.
- **Lockheed Martin Retirees Investment Group (LMRIG).** Meets last Thursday of each month, 1:00-2:00 p.m. in B163 at the corner of J Street and 1st Ave. (Employee Connection Building). Dues are \$2. Contact Don Kinell (650) 948-1520 or Martin Abelow (408) 253-6924. Join us for lunch in the B-157 cafeteria prior to the meeting between 11:40-12:40.

For your financial needs, please contact Star One Credit Union at www.starone.org or (866) 543-5202 toll free.

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