

 **BOEING**

KC-7A7



KC-X Tanker Update

Rick Lemaster
KC-X Director / Program Manager

Current Status

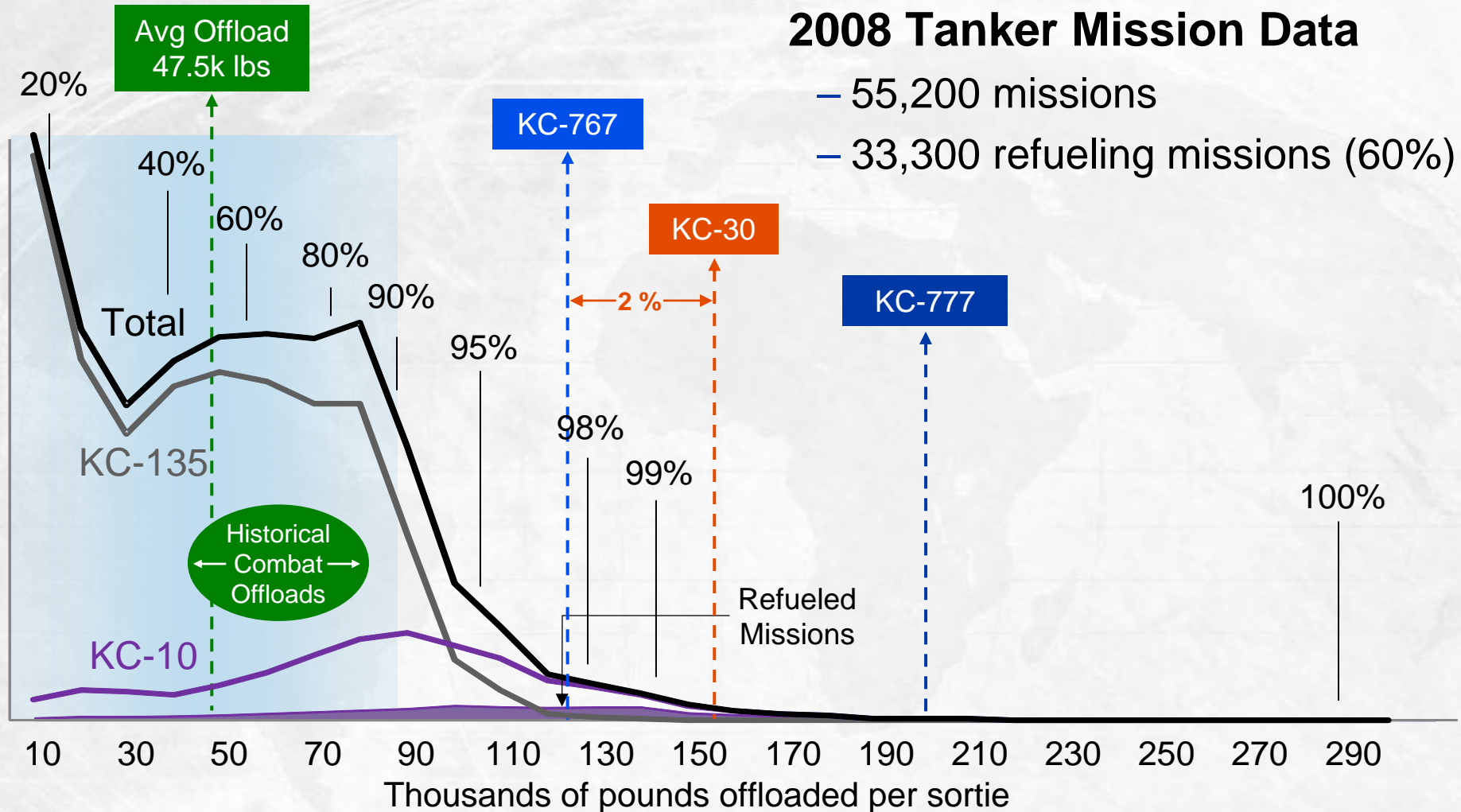
- KC-X competition expected to begin soon
 - Draft RFP in Sept?
 - Final RFP in Oct-Nov?
 - Contract award in mid-2010?
- Awaiting final set of requirements from Air Force
- Boeing has a range of options that provide the best medium or large tanker



Tanker Requirements



Spectrum Of Missions



Operational And Economical Tradeoffs For Different Sized Airplanes

Air Force Requirements Will Dictate Boeing's Offer



- Wide-body capability / narrow-body footprint
- More economical to own and operate
- Certified, delivered, operational today
- American designed and manufactured



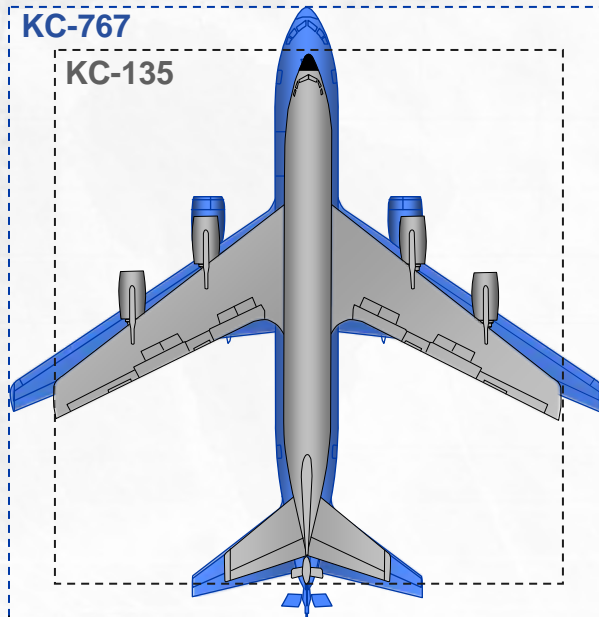
- Comparable size as KC-30, significantly more capable
- More modern, more reliable, more flexible, more efficient than the KC-30
- American designed and manufactured

Maximum Capability At Lowest Cost

KC-767

Wide-Body Capability / Narrow-Body Versatility

- KC-135-like size and flexibility – significantly more capable
- Superior operational characteristics
- State-of-the-art and combat-ready
- In operational service today
- Lowest cost tanker to own and operate



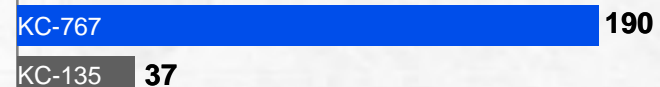
Fuel Offload (7,000' Runway at 1,000 NM)



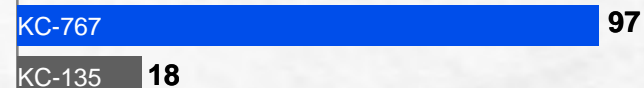
Cargo Pallets



Passengers



Patients



Fleet Performance

The Value Of More Booms In The Air

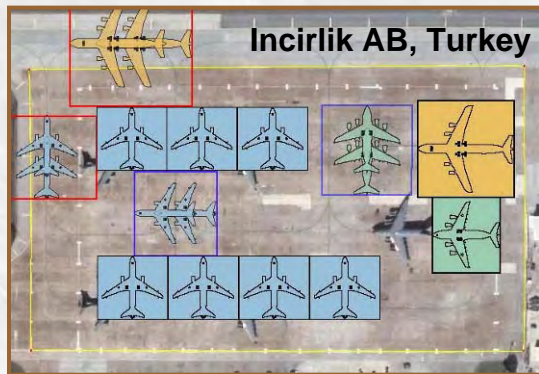


- Greater fuel offload available
- Faster refueling throughput
- More aircraft refueled
- Quicker time to target
- Simultaneous offloads at more locations
- More flexibility

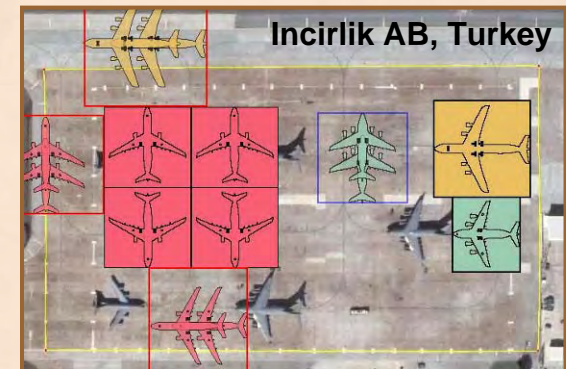
7 KC-767s



**Only 4
KC-30s Fit**



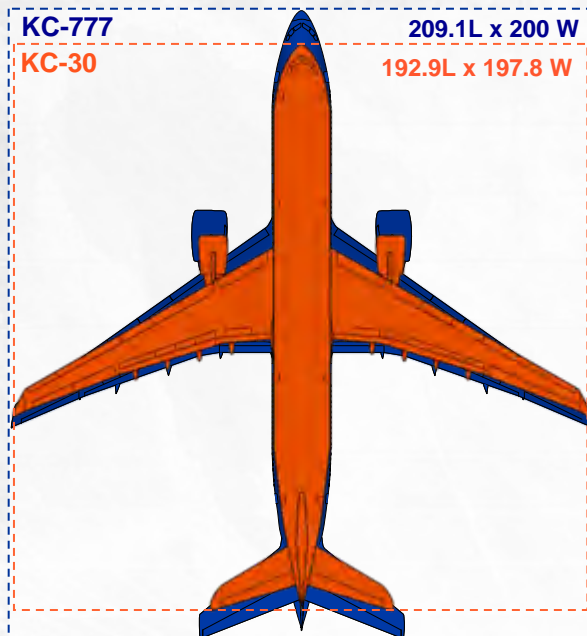
- 3 (75%) more booms in the air
- 3 (75%) more refueling orbits
- 280K (50%) more fuel to offload
- 28 (50%) more fighters can be refueled



KC-777

A Large Tanker With True Large Tanker Capability

- Industry leading passenger airplane and a proven commercial freighter
- Most technologically advanced tanker
- State-of-the-art flight deck
- Superior reliability – 99.3% dispatch rate
- Comparable in size to Airbus KC-30 – significantly more capability



Fuel Offload (1,000 NM)



Cargo Pallets



Passengers

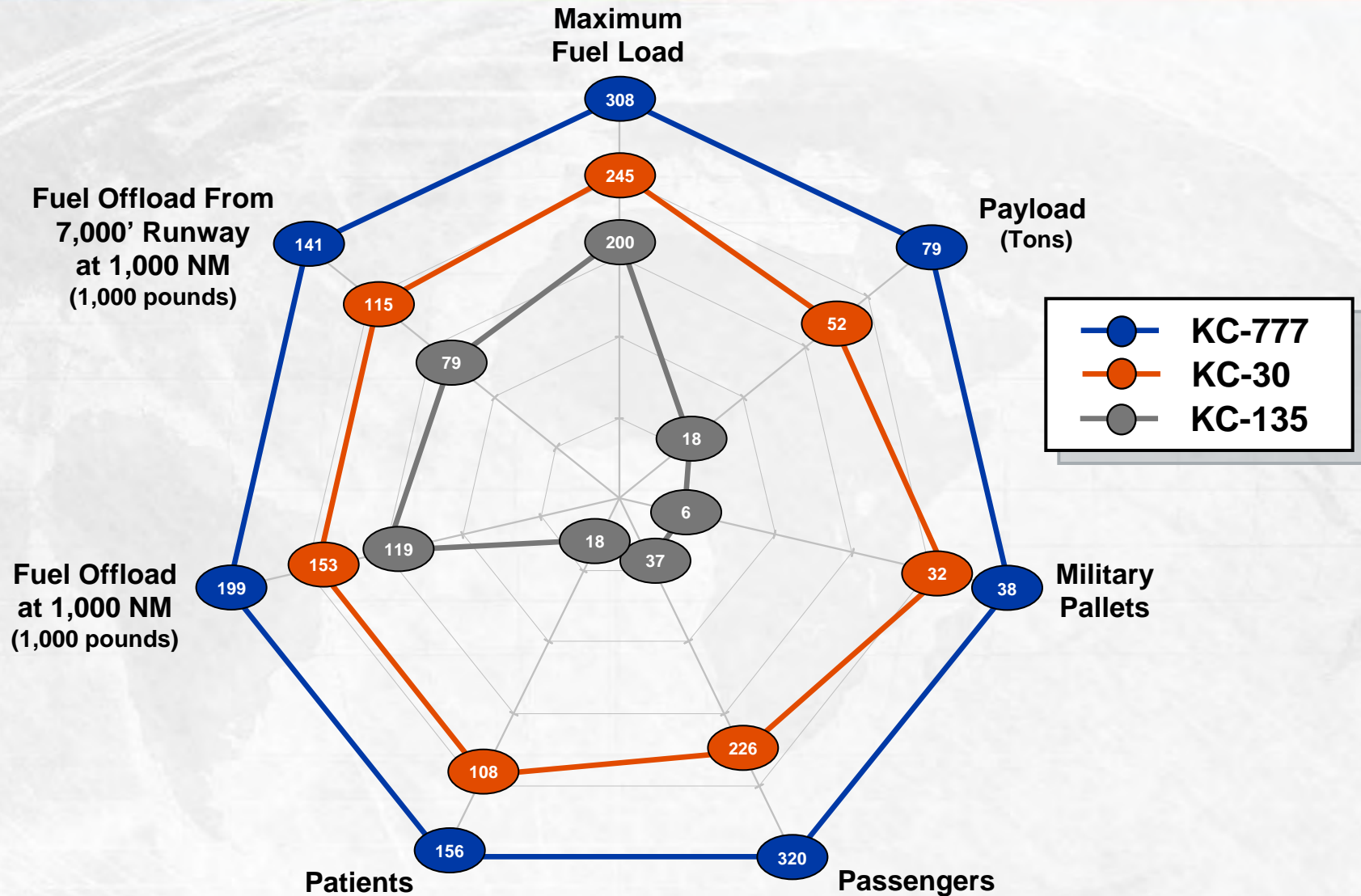


Patients



Source:
Boeing Operations Analysis
Northrop Grumman Marketing Brochure

If Bigger Is Preferred?



Advanced, Fully-Digital, Combat-Ready Flight Deck



Designed by
and built for pilots

One Boeing

*Over 100 certified
commercial derivative
aircraft delivered*

P-8 Poseidon



Japan KC-767



Wedgetail



E-6



KC-10



Japan 767 AWACS



C-32



C-40



VC-25



E-3 AWACS



E-4B



Demonstrated Risk Reduction

- ✓ KC-767s in operational service in Japan Air Self Defense Force
- ✓ Day / night and all-weather operations
- ✓ Air refueling capabilities demonstrated
 - ✓ 5th generation fly-by-wire boom
 - ✓ Wing air refueling pods
 - ✓ Centerline hose and drogue
 - ✓ Tanker-to-tanker refueling
 - ✓ Advanced remote vision system
- ✓ Over 1,200 refueling contacts
- ✓ Hundreds of thousands of pounds of fuel offloaded and onloaded in flight

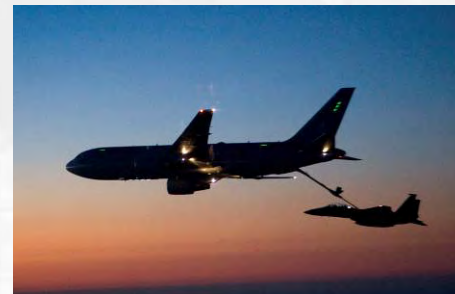
Boom Refueling (Bomber)



Multi-Point Capability



Boom Refueling (Fighter)



Wing Air Refueling Pods



Tanker-to-Tanker Refueling



Centerline Hose and Drogue



Built, Tested, Certified, Delivered And In Operational Service

Life Cycle Costs

The Real Cost To Taxpayers



“The sum of all resources necessary to organize, equip, sustain and operate military forces, including...”

- Cost to research, develop, acquire, own, operate and dispose of systems
- Cost of other equipment and real property
- Cost to recruit, retain, separate and otherwise support personnel
- All other costs of business operations

Building Boeing Tankers

From start...

US Tanker Production Site

- Robust, FAA certified commercial line
- Building tankers today



US Designed & Built Tanker Systems

- Boom
- Wing pods
- Hose & drogue unit
- Boom operator station
- Camera system
- Receptacle



...to finish

US Modification & Delivery Center

- 2,000 tankers & 80 years of experience
- Modifying & delivering tankers today

More Than 50,000 US Jobs

Summary

- Boeing is positioned to offer a more capable, more survivable, more affordable tanker.
- Based on Air Force requirements, Boeing will offer the best medium, or the best large tanker.
- Boeing's new generation tankers and booms are in operational service today.
- Boeing tankers – best for the warfighter and best for the taxpayer.



Maximum Capability At Lowest Cost

