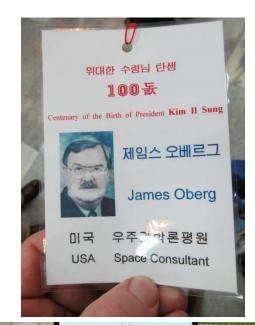


Rocket-spotting in North Korea

On April 4, 2012, Jim Oberg became the only Western 'rocket scientist' to walk up to the super-secret North Korean Unha-3 rocket, ever, at the forbidden Sohae Space Center [left]. Several days later he was the guest of honor at the never-before-seen 'General Satellite Control Center' [bottom right]. During these visits he kept looking around corners and over walls, taking hundreds of hi-res photographs, and noting down his impressions, maps, and estimates. [June 1, 2013]



Oberg, a consultant to NBC-News, had been invited to join the group of foreign journalists attending what was billed as a "peaceful satellite launch." North Korea had hoped to persuade the journalists to tell the world the launch was not a weapon – all their efforts failed. NBC News officials wanted Oberg to do more than just see what they were being shown, they wanted him to see what they were NOT being shown – and this is a report on the success of that mission to 'find out'.



CUSTOMS DECLARATION IN THE DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

Name: <u>JAMES DBERG-Sex: M</u> Age <u>67</u> Nationality: <u>USA</u> Address: <u>915 AVENUE J</u> UN Occupation: <u>JOURNALIST</u> DICKINSON TX 77539 Name of delegation. <u>NBG</u> Destination <u>PYONG</u>/AN E Invited by <u>GOVERNMENT</u> Check in luggage <u>2</u> pieces Hand luggage <u>2</u> Pieces Currency records

Currency	Amount	Currency	Amount
NS	\$500		
	may Alignet to Market	anan ang ang saka	

Please mark _____ next to the item if you have any.

1 weapon, ammunition, explosives, killing device

2 drug, exciter, narcotics, poison

- 3 G.P.S or Navigator
- 4 hand phone, cell phone and other communication means

5 historical and cultural wealth, and artistic works

6 publishing of all kinds

Listing all the "killing devices", "exciters", poisons, etc – and especially GPS and other navigation devices [but they never checked highend wristwatches], mobile phones, and any 'publishing' [of all kinds]

Half of our camera luggage



Dominating the Pyongyang skyline & visible from a dozen miles outside the city is a giant futuristic building that NOBODY talks about, even as a joke or a curse. They just don't SEE it.



The missing '5'

Yang Gak Do hotel

WHY advertise a 'secret' floor by drawing attention to it by omitting its number from the elevator buttons? Why not include a button '5' and just make it not work?



The secret "Fifth Floor"

Americans called "seung nyang", a hated/feared man-eating wolf-tiger of legend, on a who-to-hate poster

"This bomb is the product of the Americans. Every product of the Americans is our enemy. Get revenge a thousand hundred times against the Americans."

http://monsoondiaries.com/2011/08/23/piso-cinco/



APPARENTLY this floor contains the listening devices for monitoring foreigners

Military Threat? Wee are invited to 'prove peaceful rocket'.



Kim Jong II: "Military FIRST."

Kim Jong Un: "Military first, second, and third."





Launch was planned to celebrate 100th anniversary of first dictator's birth, and delegations from all over the world flew in for feasting – in a land of famine. Views in our locked hotel.



Dining Car on VIP Train Ride to Rocket Base

Five-hour trip through barren brown landscape with sullen peasants standing at attention as foreign guests rode past with unimaginable luxuries.





I broke the rules. Passing through a village I threw some unopened food packs out the window. So shoot me.

Reportage for NBC News with Richard Engel

On train

departing from Sohae

April 8

The U.S. isn't nervous about the satellite North Korea will launch, but the rocket that will launch it. NBC's Richard Engel reports. **Nightly News**

w/ Richard Engel

Arriving at rocket launch base, Sohae

JAMES OBERG



Foreground: Retired rocket scientist

Background: Rocket on launch pad

04/07/2012 23:54



Booster model [home made]

The Sohae gantry tower is taller

Structure for much longer rocket added

Musudan [2009], below; Sohae [2012], right



Mobile launch platform inserted under base and wheel tracks for access to as-yet unbuilt vertical assembly building at apron's south end



Mystery: Change in color of pavement around assembly building posted on April 6, 2012 at 07:30 http://www.northkoreatech.org/2012/04/06/launch-preparations-underway-at-sohae/







LAUNCH CONTROL CENTER [LCC] at Sohae – April 2012 press access



LCC Main Hall

April 2013 --

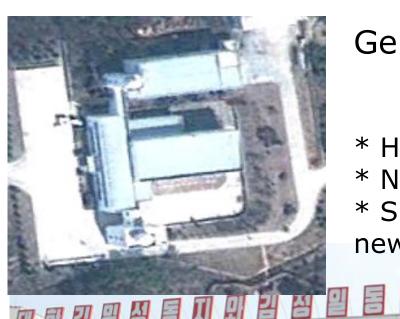
Four tables with 3 flat-screens each

Front-projector front wall display

Civilian specialists

Wooden slat floor





General Satellite Control Center GSCC

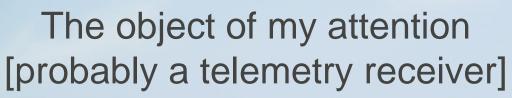
* Half-hour bus ride NE of Pyongyang
* Never before visited by foreigners
* Site probably pinpointed by one
newsman w/ wristwatch-GPS [not me]

명 원 히 무 리

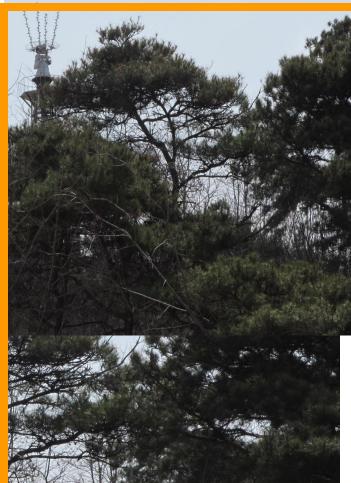
General Control Center

Director greets the visiting journalists [but Oberg just isn't paying attention]









Everybody else was getting great shots of the director's face

"Pardon me while I just get some views over that way..."





April 2012 --Foreign press corps in viewing gallery [me and director at center of cameras, above left]

Official KCNA photo from floor shows curious view of back of consoles -- mostly empty space!

Space appears to house modem for feeding flat screen display. Brightness-enhanced view seems to reveal reverse of front display.



PATH CULMINATES HIGH IN SKY 80 SECONDS AFTER LIFTOFF FROM 'SOHAE'

Plan to view the rocket's path

EERENCE GENTIER

PRESS CENTRE"

PARKING LOT WITH CLEAR VIEW TO WEST

ROUTE OF THE "ROCKET DASH"

0

Launch day – the press room is fully staffed



Launch! Simulated view only....



* No advance word of impending launch
* We learn of launch, and failure, from phone calls from colleagues in Japan
* None of our hosts ever mentioned the rocket, or the reason we had come, ever again – it was memory-wiped clean.





Beijing International Airport — homeward bound

客航站楼 欢迎团

04/17/2012 19:38

December 2013 – New launch succeeds [but satellite dies]



'ROCKETCAM' view shows receding launch pad, where we stood in April



Recovered rocket debris

- First stage tanks and engines
- NorKorea never complained
- Significant intel on imported tech
- US Navy got aero shroud [no pix]
- NO recoveries from April crash
- They say.



Most Surprising Find: Significant differences between April & December configurations of center

MAJOR REMODELING OR DIFFERENT FACILITY?





[ABOVE] April 2012

- Left & right walls altered
- Control consoles replaced
- Floor tile edges darker
- Main screen projector gone
- Multi-screen front displays?
- Right wall units atop platforms

[LEFT] December 2012



Launch Control Center [Sohae]

April 2012 [left] December 2012 [below]

Unchanged: floor paneling, walls, free-standing equipment, main control panel, front TV screens, corner floor-to-ceiling wire run.

DIFFERENT: Controller consoles, tables/chairs, front bottom panel, nature of personnel at consoles.





EQUIPMENT REPLACED!! Official images from LCC floor confirms: April view of civilian technicians with real flat-screens replaced by hollow consoles for December photo-op.

These consoles with mostly empty space, containing a flat screen and MODEM [?], look identical to the consoles seen by us at GSCC the previous April. Visitor [background] is Kim Jung Un, which perhaps explains why operators are all young military personnel.

