Presented by:

- **Chris Sieklucki, CM – AZO Assistant Airport Director**
- **Bill Ropposch, PE – Mead & Hunt, Inc.**
- **Joe Rinas – Foreman for J.Ranck, Inc. Electrical Contractors**
- **Al Romero – Mead & Hunt, Inc. (shhh, he does not know that he is presenting yet)**

KALAMAZOO | BATTLE CREEK
INTERNATIONAL AIRPORT

Yes, there really is a Kalamazoo

Airfield Lighting Vault Renovation

Old Terminal Building with ATCT on Top

Inside of Old Terminal Building

10 YEAR CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2011 to FY-2020

Airport Name: Kalamazoo/Battle Creek International		Date prepared:	11/5/2010
Associated City: Kalamazoo		Prepared By:	Cliff Moshiginis, Airport Director/Ron Engel-Mead
Sponsor: County of Kalamazoo		Telephone No.:	269-388-3668
Airport Three Letter ID: AZO	Congressional District: 6th	**Due date December 15, 2010**	

Item #	Description	Fiscal Year	Total Cost	Entitlement	Apportionment	Discretionary	State Non-FAA	Local (A/P rev)	Other (Bonds)	PFC		Remarks/Item Justi
1	ALCS/Beacon in support of new tower										$0	A new Airfield Lighting Control Sys in support of the new ATCT. The funded as part of the tower projec responsibility of the Sponsor to in
2	Concept & Budget Report for new ARFF/SRE Building										$0	See item #10 below
3	Crack Sealing and pavement marking										$0	Cracksealing is an important part maintenance program. The airfie be completed every 3 years to m visability.
4	AAAE Training System										$0	As part of their ongoing effort to st training requirements, the Sponso a system from AAAE that is a stan based interactive training prograr employees and tenants. The sys
5	Terminal Bldg reimbursement-phase V										$0	A new terminal building is in the p constructed. This project would r Sponsor for some of the costs the AIP eligible portions of the buildin
6	Runway Guard lights (RSAT project)										$0	The RSAT team has identified a r guard lights at all taxiway intersec estimate does not include the cos intersections for runway 9/27 beca decomissioned.
	Total for FY 2011										**$0**	
7	Design for ARFF/SRE building										$0	See item #10 below
8	SRE Equipment replacement										$0	Existing equipment is getting old a costs are high. This project woulc existing equipment that was purch Funding.
9	Pavement Cracksealing										$0	Cracksealing is an important part maintenance program.

	Total for FY 2012										**$0**	
10	ARFF/SRE Building	2013									$0	The existing ARFF and SRE buildings are nearly 30 years old. The existing ARFF building is located at the north end of the field. This location will make it difficult to meet the new response time requirements. A dual purpose building (ARFF & SRE) located near the center of the field will not only improve response time to both ends of the field, but will improve efficiency of operations by having the two facilities together. The funding shown assumes that 90% of the building will be eligible for Federal participation.
	Total for FY 2013									**$0**	**$0**	
10a	ARFF/SRE Building	2014									$0	See Item #10
	Total for FY 2014									**$0**	**$0**	
11	Rehabilitate Twy C	2015									$0	Taxiwy C had a PCI of 54 in 2007. It is anticipated that it will required a major reconstruction by 2015.
	Total for FY 2015									**$0**	**$0**	
12	New ARFF Vehicle	2016									$0	The existing ARFF vehicle is getting old and the maintenance costs are becoming high. The Sponsor proposes to replace the existing vehicle that was purchased with AIP funding.
13	Convert 9/27 to taxiway	2016									$0	The ongoing Master Plan study will likely conclude that this runway is not needed to meet the required wind converage. This runway will be closed and converted to a taxiway.
	Total for FY 2016									**$0**	**$0**	
14	Extend runway 17/35 Phase I	2017									$0	The master plan is currently on going. It may show a need for a longer runway at AZO. This project may involve land acquisition and relocation of the railroad on the east side of the airport.
	Total for FY 2017									**$0**	**$0**	
15	Extend runway 17/35 Phase II	2018									$0	See item #14
	Total for FY 2018									**$0**	**$0**	
16	Extend runway 17/35 Phase III	2019									$0	See item #14

	Total for FY 2019			**$0**	
17	Modifications to De-icing area	2020		$0	The existing de-icing area has walls that are no longer needed. This project would remove the walls and expand the de-icing area allowing multiple aircraft to de-ice at the same time. The drainage system will also need to modified to collect the de-icing fluid.
18	Acquire land of through the fence operators	2020		$0	
	Total for FY 2020			**$0**	

Welcome to the New Airport

New Terminal Building

Terminal Building Night Time…

Interior of New Terminal Building

New Air Traffic Control Tower (ATCT) & Base Building

Lights are On, Everything is Good, Right?

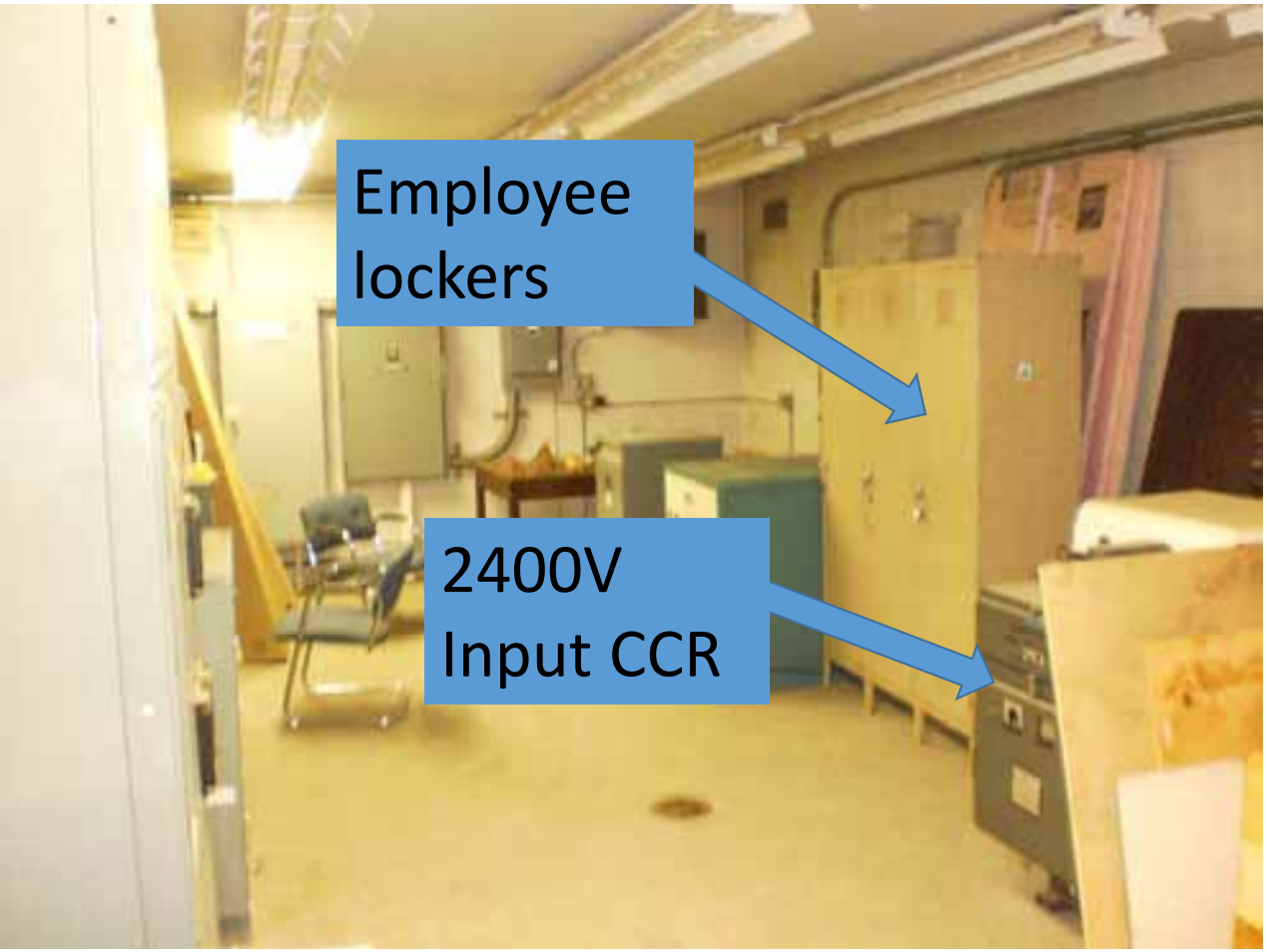
Airfield Lighting Vault

So what's the big deal? The lights come on at night.

Oh, yeah, just a little clutter!!

Active CCRs for runway and taxiway lighting

OSHA and NEC Work Space Challenges



How did this vault get to this condition?

So, what finally prompted the change to allow for the renovation of this vault

- Proactive airport staff!!! (Most important)
- A true need (too many NEC code deficiencies to ignore)
- Ability to justify funding through the local, state and federal levels
- Understanding of the funding process for projects

Bill!! You are missing an equal and very important piece of the puzzle…..With out a qualified consultant we could not do this.

Table 3-8. Minimum Useful Life (Taken from the FAA's AIP Handbook)

Project Type	Useful Life
c. Pavement rehabilitation (not reconstruction, which is 20 years)	10 years
d. Asphalt seal coat, slurry seal, and joint sealing	3 years
e. Concrete joint replacement	7 years
f. Airfield lighting and signage	10 years
g. ARFF vehicles	10 years
h. ARFF structural gear, which has less heat insulation than proximity gear (per the National Fire Protection Association 1971 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting)	7 years
i. ARFF proximity gear, which is also referred to as slicks, bunker, or turn out gear (per the National Fire Protection Association 1971 Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting)	5 years
j. NAVAIDs	15 years
k. Land	Unlimited

Clean Up and Keep All Circuits Active, NO Down Time

Cleaned Up Vault with New CCRs

Generator, Old and New

Vault Being Used as a Storage Shed

Another Vault Being Used as a Storage Shed

Vault as Storage & Medium Voltage Termination Just Inside Entry Door.

Don’t let this happen to your airport.
Be proactive
QUESTIONS