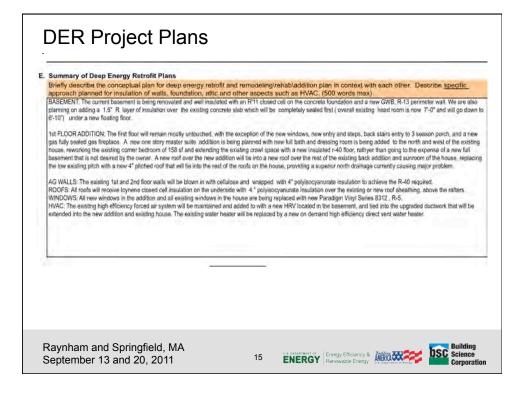
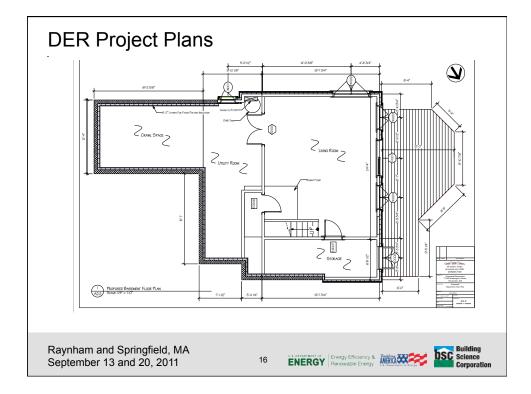


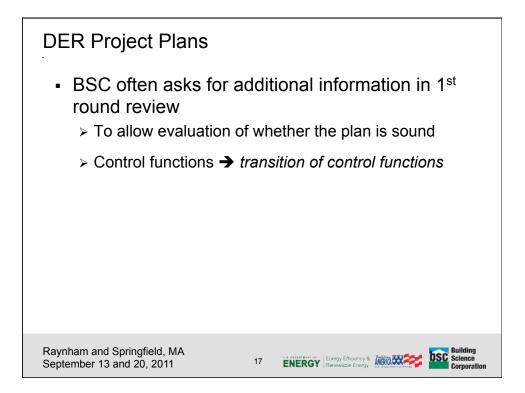


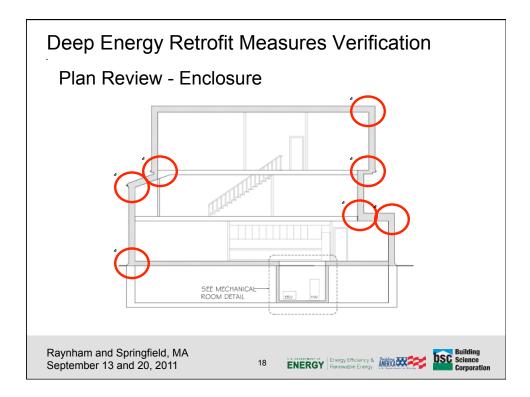


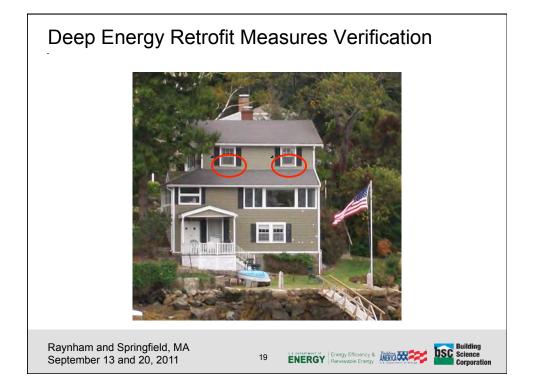
Component	Application to Building Component treated in	Ini				Performance Specifications			Equipment or Material
		Note	Existing Conditions (Units)	Proposed	Existing Condiitons *	Proposed	DER Pilot Targets		
Enclosure Measures				Area of Ericitos	um Component a FD		Effective II-value R-value = 1 / U-value	47	Indicate their mas and type of insulation added
Attic or Roof	Yes	Yes	ena likely to change if thermal boundary incred	1340	2136	24.0	60.0	R 60+	6" MR-200 fcymene and 4 * exterior polytsocyanurate
Above Grade Walls	Yes	Yes	gross and including windows and doors	2127	2481	2.0	40.0	R 40+	existing 2 x 4 cellulose cavity or icynene and 4 " exterior polyisocyanurate
Insulated Foundation Wall - Above Grade	Yes	Yes	include if basement walls insulated or	216	216	2.0	30.0	R 40+	3" closed cell spray foam and 3.5" fiberglass batt
Insulated Foundation Wall - Below Grade	Yes	Yes	basement is intentionally	506	506	2.0	24.0	R 20+	2" closed cell spray foam and 3.5" fiberglass batt
Floor of Insulated/Conditioned Basement	Yes	Yes	heated, can shift from one way existing to another in DER	708	708	2.0	10.0	R 10+	2" XPS with taped seams, embedded in 3" cc SPF insulation (wall insulation) at perimeter
Basement Celling	No	No	in DER do not include if batement walk insulated or basement is intentionally heated					R 30+	NA
Slab on Grade	No	No	1		-			R 10+ under and perimeter	NA
Floor over Unheated Garage or Overhang	Yes	Yes		280	696	3,0	40,0	R 40+	6"closed cell spray foam and 3.5" fiberglass ball, 2" polylsocyanurale taped
Windows	Yes	Yes		154	310	2.50	4.75	R.5 (U.2) **	New Paradigm Windows, Series 8312
Doors	Yes	Yes	Territoria (64	94	1,50	4.75	R 5 (U.2)	New Thermatru and Paradigm Doors
Tight Storm or Modily Windows and Doors			area of affected worklosy or deary.					R 5 (U.2)	
			Enclosure surface area		enter air leakage test measurement in cfm at 50 Pascal pressure difference			indicate basic strategy for airflow control	
Air sealing		Yes		5177	6743			674	Tyvek housewrap applied over exterior sheathing, all joints taped and sealed at back of window box extensions,
HVAC	exists ?			# units	# units	enter appropriate performance specification		e specification	indicate equipment type, MBTUN, manufacturer and model number
Mochanical Ventilation	Yes	Yes	include (CFM) and, if applicable, recovery efficiency (N)	1	1	none	88%	Heat Recovery, Balanced, Distributed	Lifebreath HRV , M# 155ECM, 88% Max. Temp recovery
Heating equipment	Yes	Yes	enter AFUE of exating -	i	1	94	94		Carrier Furnace Model # 58MVP, Direct Vent, 2 stage tied into new ductwiork , integrate with HRV (stage #1 BTU output 80,000 -75,000, stage #2 52,000-

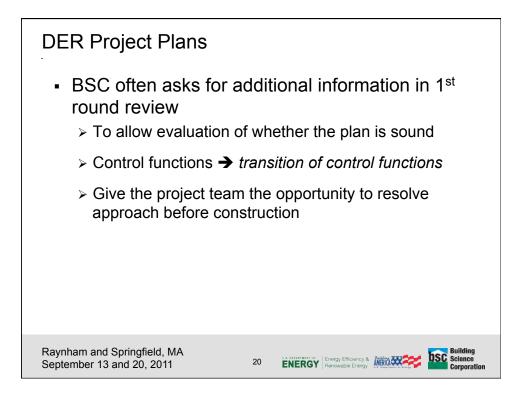




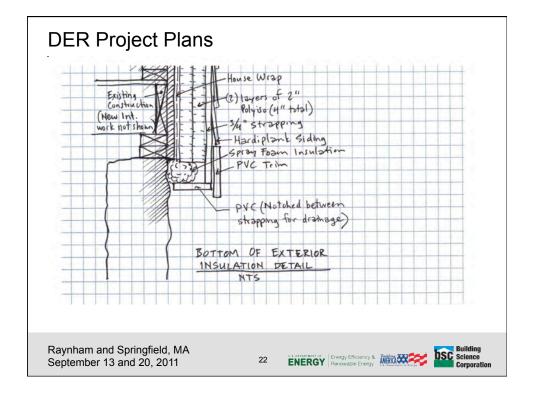


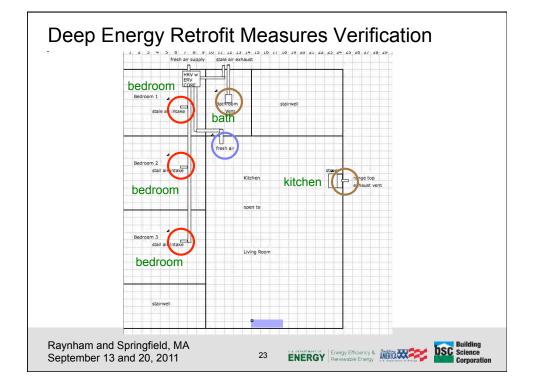


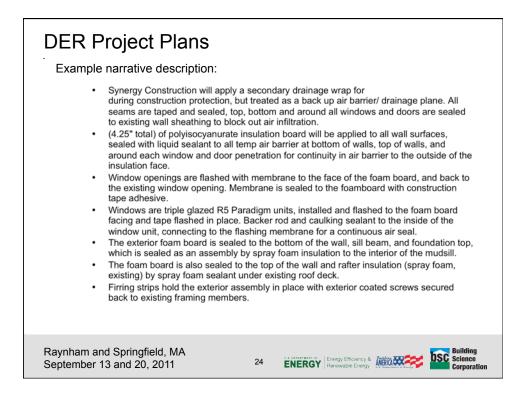


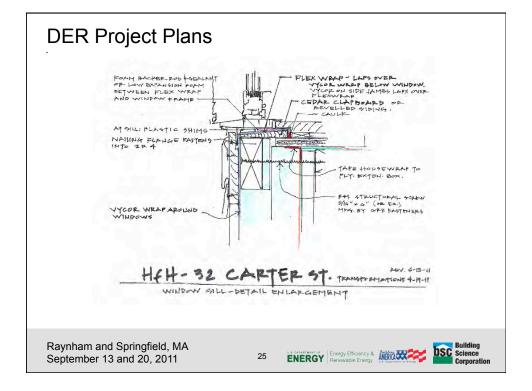


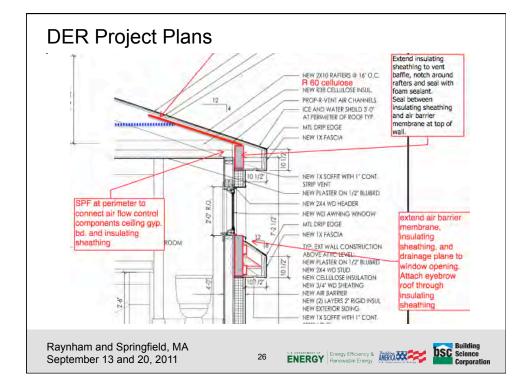


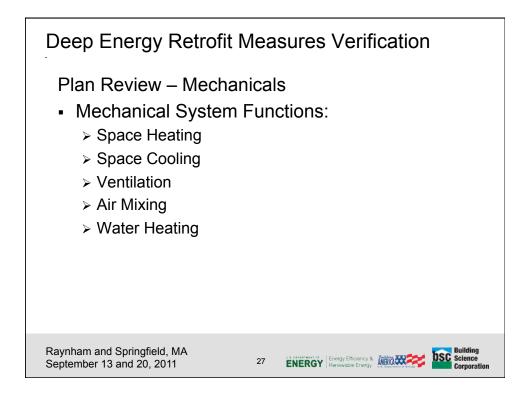


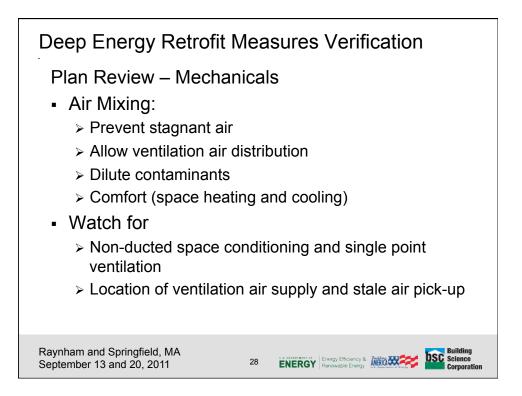


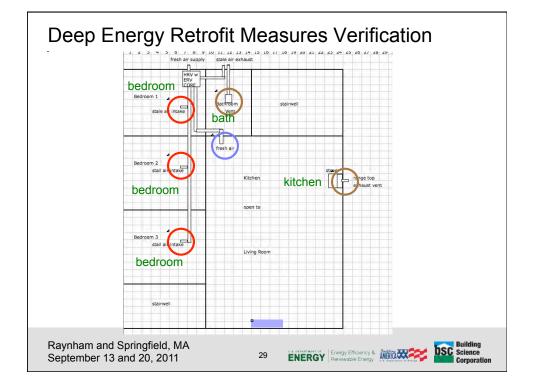


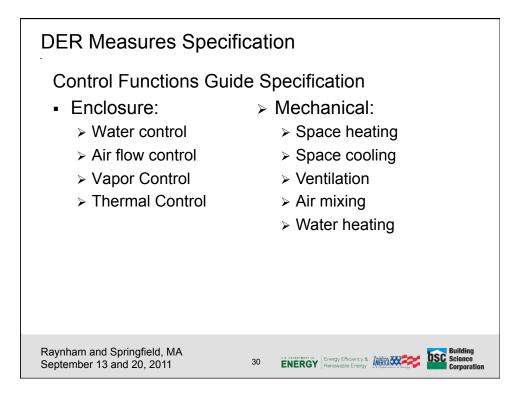


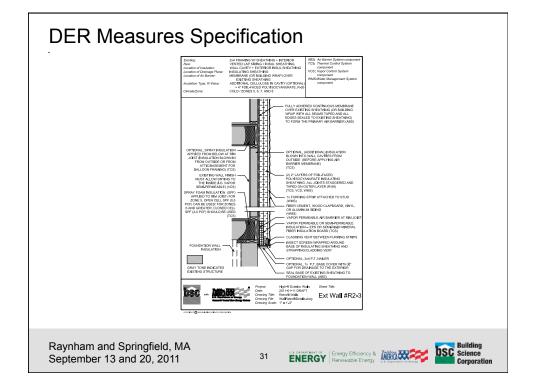


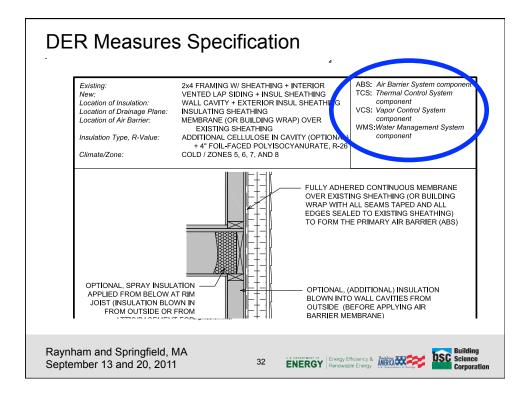


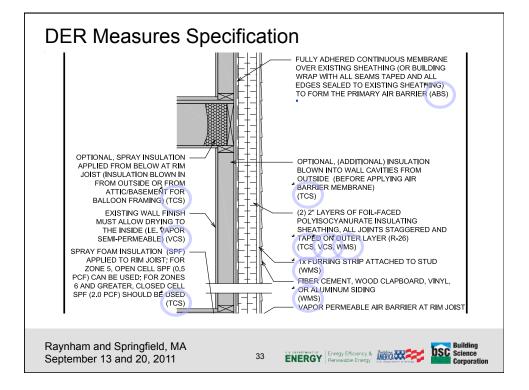


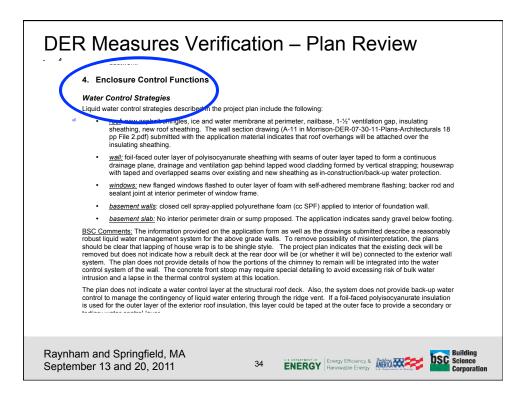




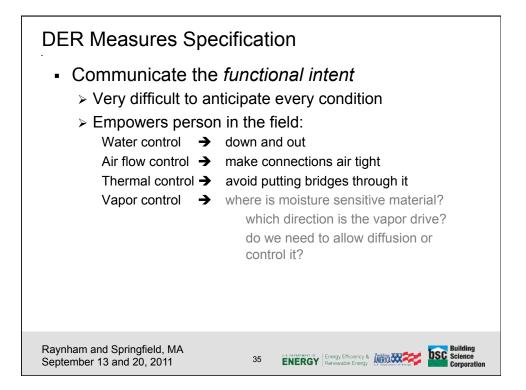


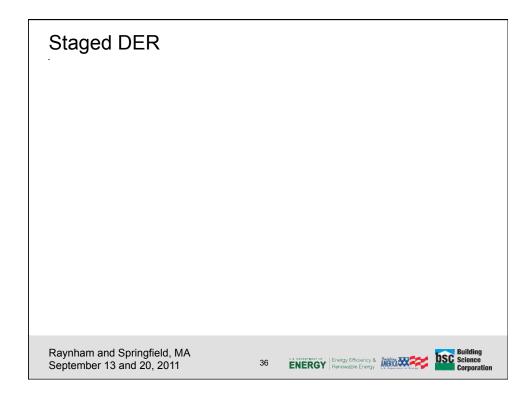


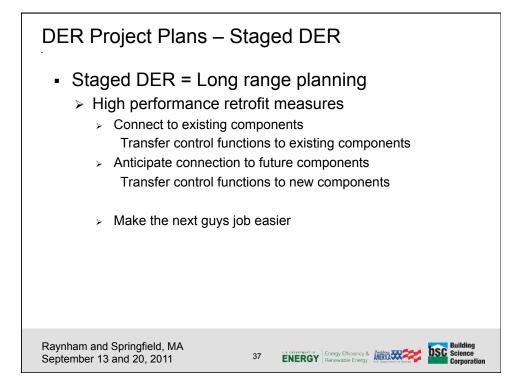


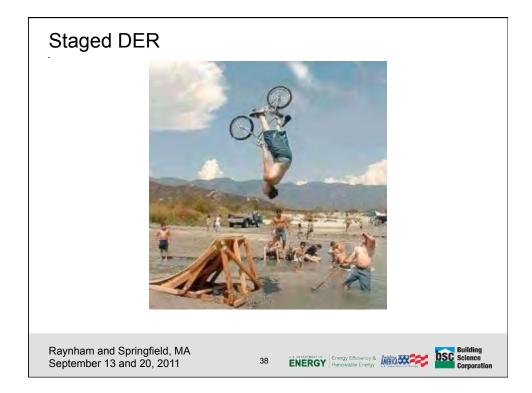


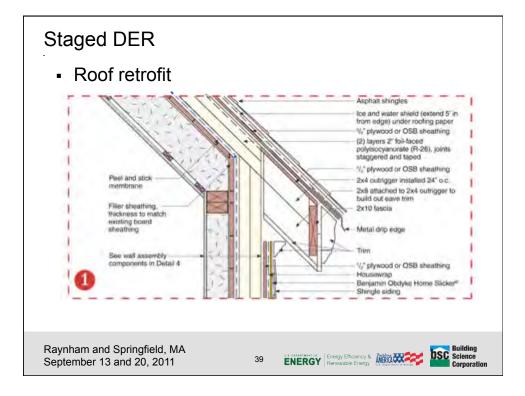
3

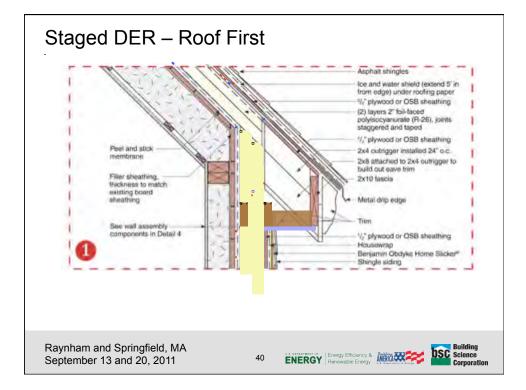




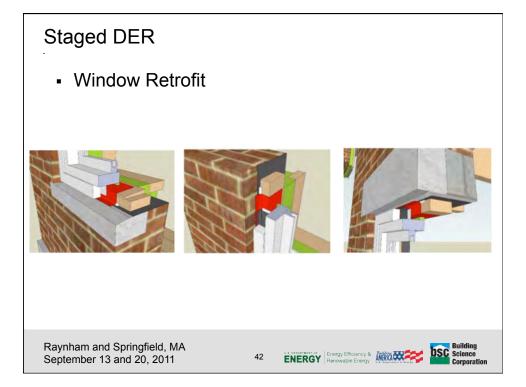


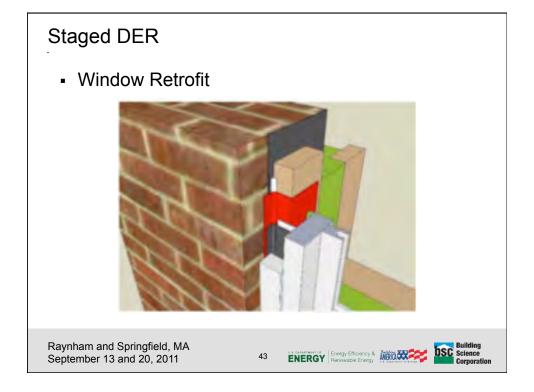




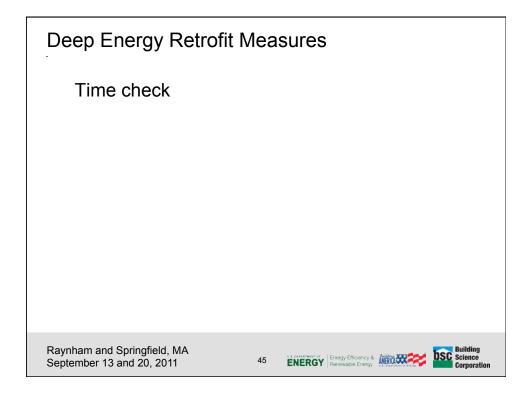












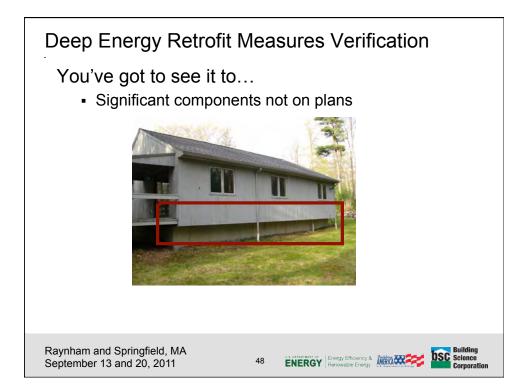
Deep Energy Retrofit Measures Verification								
Seen on site								
Raynham and Springfield, MA September 13 and 20, 2011	46 ENERGY Encency & ARCONCE Science Corporation							

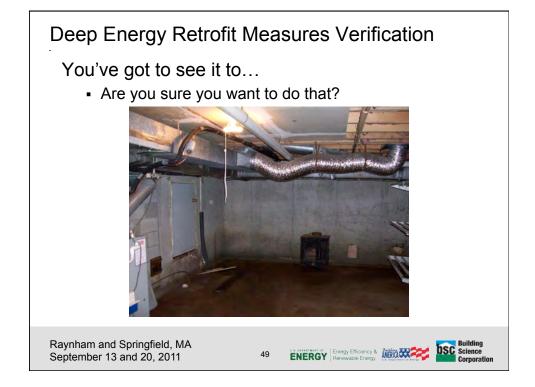
Deep Energy Retrofit Measures Verification

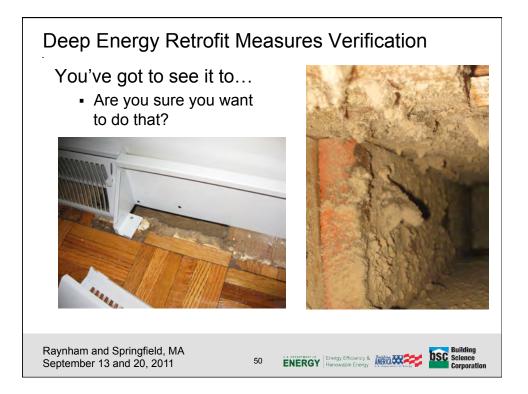
You've got to see it to...

Significant components not on plans





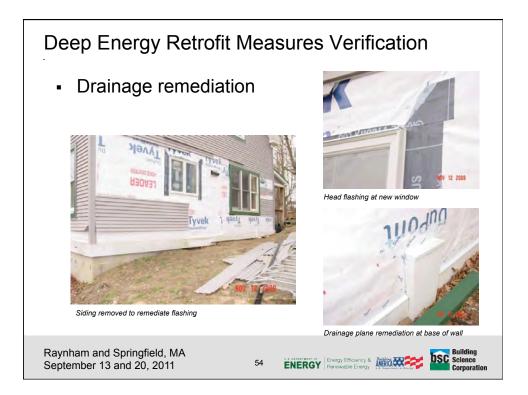


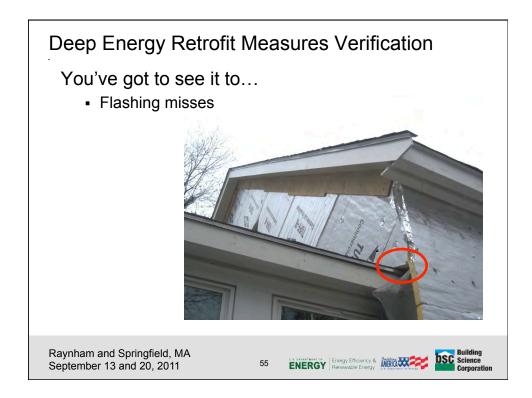


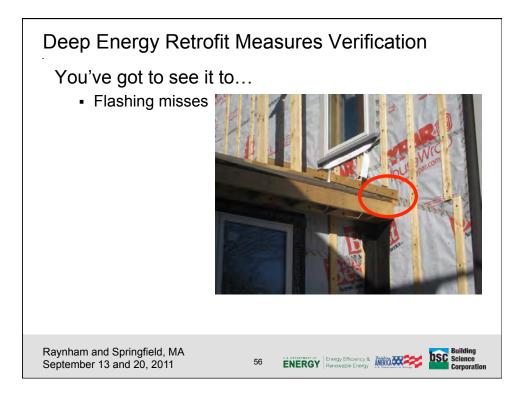
















DER Workshop



You've got to see it to ...

Window flashing whiffed

















