

## Section 18 Determining Physical Obsolescence 24 CFR 970.15 and HUD Notice 2018-04

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### Introduction and Purpose of Presentation

- Introduction
  - James Isaacs
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- Purpose: A Deep Dive on Proving Physical Obsolescence or "What's Broken and What Needs to be Repaired or Replaced in the Next 3 Years"
  - Its an analysis of what <u>existing</u> items, <u>within a building</u> needs to be repaired <u>immediately</u> to keep it going;

it's <u>not</u> a rehabilitation estimate, GPNA or redevelopment budget for RAD



"Its an analysis of what <u>existing</u> items, <u>within</u> <u>a building</u> needs to be repaired or Replaced <u>immediately</u> to keep it going"

- "Existing" = only the cost to replace/repair an item can be included No upgrades or install a non-existing item;
- "Within a building" = the building and a 5' perimeter;
- "Immediately" = next 3 years;

## When is an Obsolescence Review <u>Not</u> Required\*?

#### **Demolition:**

- DeMinimis Exception
- Health and Safety
- Natural Disasters
- Casualty Loss



\* An alternative form of proof is **still** required to prove the property is obsolete, for example fire insurance report, photos, reports, etc.

#### **Disposition:**

- Health and Safety
- Infeasible Operation
- Efficient and Effective
- Scattered Sites
- Streamline Voluntary Conversion
- 50 Units or Less
- Vacant Land
- Retentions Part 200
- Section 32 Homeownership



#### When is an Obsolescence Review Required?



Demolition:

Obsolescence may be Physical or Location or other factors

Disposition:

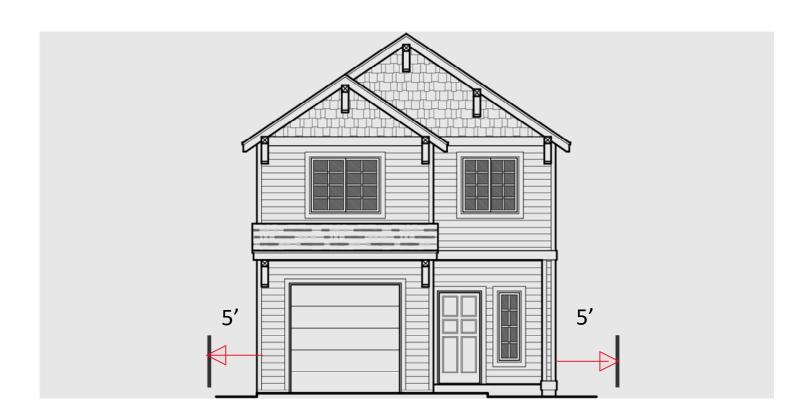
If justification is Physical Obsolescence of Building



- Step 1: What's in Need of Immediate Repair/replacement (next 3 years)? then
- Step 2: Will it meet substantial rehabilitation cost test
- **Step 3:** What would the local Code Compliance require for the level of proposed repair?



#### What's Covered





#### What's Not Covered

Generally, anything beyond 5 feet of building





## Does it Need Repair?



### Yes!





#### Does it Need Repair?



**No.** Maybe Tired or old fashioned but not in need of Repair. *Because something is old does not make it obsolete.* 





## Old does not equal obsolete



Abraham Lincoln's Home: Purchased by Abraham Lincoln in 1844



### Does it Need Repair?





Yes!
Replace
with
what?











## Window Air Conditioning Unit Needs Replacement, PNA cost should show the replacement price of which system?

The price of a replacement Window unit?





Or

Price to retrofit home with central air system?





#### Obsolescence – Physical Condition

- Scope of Work: Rehab Needs
  - Captures Immediate Needs (Repairs or Replacement needed in 3 years or less)
  - Third-party report (if structural, environmental issues)
  - International Building Code (IBC)
- Cost-estimates
  - R.S. Means Cost-Index or equivalent
  - Total Development Cost (TDC) published annually
  - 57.14% of TDC for non-elevator (62.5% for elevator)



- PHAs must demonstrate substantial **physical issues of the buildings/units** that cannot be corrected in a **cost-effective manner**
- Physical Needs Assessments (PNA) should include:
  - Detailed list of specific work-items that require rehabilitation or repair; and
  - rehabilitation cost-estimates
  - **Supporting Documents** 
    - Pictures
    - Reports
    - Evidence of Local Code Requirements



- Estimates based on International Building Code (IBC) and National Fire Protection Association (NFPA) 5000 standards. PHAs may include local code requirements
- Work items limited to immediate capital needs for a maximum of three years
- Mitigation costs of asbestos, lead-based paint, or other environmental issues must be supported by test result/reports



- Structural defects when supported by reports from a licensed Professional Engineer
- Accessibility improvements for persons with mobility, vision, hearing or other impairments, if triggered by substantial rehabilitation
- Imminent health and/or safety issues



- Enhancements or Improvements of working systems
- New (Not Existing) Amenities
  - Solar panels;
  - Tank-less water heaters;
  - Trash enclosures;
  - Washer/dryer hook-ups;
  - Garbage disposals;
  - Addition of new porches



- Local code compliance if <u>not</u> triggered by the **Substantial** rehabilitation/repair;
- Landscaping or other Site work beyond five feet of the exterior walls of a building;
- Upgrading utility lines that are otherwise in working condition;



## • Site improvements and appurtenances

- Parking lots,
- Security cameras,
- Playgrounds,
- Community centers



- Replacement of PHA's personal property
  - Refrigerators,
  - Stove/Ovens, and
  - Window treatments
- Costs attributable to inflation or "cost escalation"



#### Is it included in the Obsolescence Review?





#### Remember

Obsolescence is ". . . an analysis of what <u>existing</u> items, <u>within a building</u> needs to be repaired <u>immediately</u> to keep it going"



## Let's Look at a PNA





### Sample Rehab Cost Review

	Any Town Hoging Authority				Dev. No	Λ1	3001000023		
Gross Square Feet:184,375	Any Town Hosing Authority  R.S. Means Location Factor (Building):	####			Row House		mber of Units:	178	
	Construction Cost Adjustment Factor:	####							
RS MEANS Div	Item Description	Unit	U	nit Cost	Qnty		Total Cost	SAC Cost	SAC Comments
072116102220	Add Blanket insulation for floors/ceilings, 12" thick, R38 - attic	SF	\$	2.46	92,202	\$	226,816.92	0.00	Ineligible Energy Efficiency Improvement item
073113100355	Asphalt roof shingles, Class A, 240-260 lb per square	Sq.	\$	237.00	1,107	\$	262,359.00	\$ 262,359.00	
073113100825	#30 felt underlayment	Sq.	\$	21.50	1,107	\$	23,800.50	\$ 23,800.50	
077226100150	Ridge vent, aluminum, painted finish	LF	\$	8.20	8,525	\$	69,905.00	\$ 69,905.00	
087120400100	Door hardware, lockset, non-keyed passage, privacy	EA	\$	139.00	2,044	\$	284,116.00	\$ 284,116.00	
B2031	Install lever handle hardware at exterior door	1		EA	\$250.84		\$251	\$ 251.00	Permit code required
Z107X ADA	Visual Bell & Strobe, Hearing Impaired, Install	2		EA	\$1,050.69		\$2,101	\$ 2,101.00	Permit code required
081213130025	Frames, steel, knock down, hollow metal, single, up to 5-3/4" jamb depth	EA	\$	240.00	356	\$	85,440.00	\$ 85,440.00	
087120652300	Thresholds, ADA compliant, 4" wide, 36" long	EA	\$	88.00	341	\$	30,008.00	\$ 30,008.00	
087120501300	Door stops, wall bumper, 4" dia., w/rubber pad	EA	\$	32.50	2,385	\$	77,512.50	\$ 77,512.50	25



113013150020	Cooking range, residential appliances, free standing, 1 oven, 30" wide, minimum	EA	\$ 625.00	178	\$ 111,250.00	\$0.00	Appliances-ineligible ineligible
113013194150	Hood for range, 2 speed, vented, 20" wide, minimum	EA	\$ 355.00	178	\$ 63,190.00	\$63,190.00	
113013166790	Refrigerator, no frost, Energy- star qualified, 18 CF minimum	EA	\$ 1,050.00	178	\$ 186,900.00	\$0.00	Appliances ineligible
113013246764	Washer. Energy star qualified, top loading, minimum	EA	\$ 885.00	178	\$ 157,530.00	\$0.00	Appliances ineligible
113013256770	Dryer, Electric, fornt loading, energy star qaulified, minimum	EA	\$ 1,075.00	178	\$ 191,350.00	\$0.00	Appliances ineligible
###########	Water Heaters - tankless	EA	1,588	20	\$31,760	\$8,750.00	Upgrade not accepted. Only 10 heaters needing replacement as 10 were replaced 5 years ago. Cost adjusted to \$875 each
122113130020	Blinds, Interior, horizontal, 1" aluminum slats, solid color (6.05 sf)	EA	\$ 72.60	1,421	\$ 103,164.60	\$0.00	Ineligible item Disallowed
028213470210	Asbestos Removal, LBP Removal, and Mold Remediation	SF	\$ 9.70	208,227	\$ 2,019,801.90	0.00	Ineligible- No test report provided



238333102000	6' Base Board heating	EA	\$	534	\$	\$	
230333102000	Replacement	LA	135.05	334	72,116.70	72,116.70	
233423106670	Fans, residential, bath exhaust, grille, back draft damper, 110 CFM	EA	\$ 179.00	232	\$ 41,528.00	0.00	Ineligible - New item - Air Condition not existing
D303030	Electric split-system - heating/cooling, includes ductwork and chase	Apt.	\$ 9,500.00	178	\$ 1,691,000.00	0.00	Ineligible - New item - Air Condition not existing
233113165410	Duct, round, spiral, galv., 4" dia., 26 ga.	LF	\$ 5.85	4,640	\$ 27,144.00	0.00	Ineligible - New item - Air Condition not existing
033053403540	Equipment pad, 3'x3'x6" thick	EA	\$ 133.00	178	\$ 23,674.00	0.00	Ineligible - New item - Air Condition not existing
283146505200	Smoke detector, ceiling type - dwelling units	EA	\$ 252.00	918	\$ 231,336.00	\$ 231,336.00	
265636550130	LED Floodlights, with ballast and lamp, 288 watt	EA	\$ 2,150.00	132	\$ 283,800.00	0.00	New item, ineligible
M.010 D.5010	Electrical and Service Distribution - Square Foot Cost	SF	\$ 2.68	184,375	\$ 494,125.00	0.00	Good Condition Disallowed
Industry Average	CATV/ Internet	Unit	\$ 350.00	178	\$ 62,300.00	\$ 62,300.00	



333113252080

333113253040

312316136130

329113161600

#### Sample Rehab Cost Review (continued)

Not existing, No evidence provided that sprinklers are

Site Work -ineligible

Site Work -ineligible

Site Work -ineligible

Site Work -ineligible

D40103100530	Install new Sprinkler System for Fire Protection	SF	\$ 16.58	\$20,500	\$ 339,890.00	-	required. Cost might be accepted if PHA provides copy of specific code requirement and corresponding documentation level of repair would trigger code requirement.
Industry Average	Fine Grading green areas - sewer line & patio replacement	SY	3.25	3,640	\$ 11,830.00	0.00	Site Work -ineligible
329113233850	Spread conditioned Topsoil 4" - sewer line & patio replacement	MSF	775.00	33	\$ 25,575.00	0.00	Site Work -ineligible
331113201120	Water supply, polyethylene pipe, 160 psi, 1" diameter - water supply line replacement	LF	\$ 2.55	3,960	\$ 10,098.00	\$ 10,098.00	
333113253040	PVC fitiings, bends, or elbows, 4" diameter - sewer line	EA	\$ 66.50	500	\$	\$ 22.250.00	

3,960

356

1,320

400

66.50

11.60

88.00

10.10

175.00

LF

EA

**BCY** 

CY

33,250.00

45,936.00

31,328.00

13,332.00

70,000.00

33,250.00

0.00

0.00

0.00

0.00

# OFFICE OF PUBLIC & INDIAN HOUSING

replacement Polyvinyl chloride pipe, 13' lengths, 8" diameter - sewer line

replacement PVC fittings, bends, or elbows, 8"

diameter - sewer line

replacement Excavating trench, 1/2 CY excavator, 6' - 10' deep - sewer

line replacement Pea gravel - sewer & water line

replacement



	Security Lights and Security Cameras	EA	\$2,500	10	\$25,000.00	\$ -	Site Work -not attached to Bldg. ineligible
	Replace nonworking light fixtures	EA	\$250	20	\$5,000.00		Site Work -ineligible
		EA	\$ 1,500.00	5	\$7,500.00		Site Work - Regular Maintence item - Ineligible
	Add new porch for marketability	EA	\$ 3,500.00	178	\$623,000.00		Improvement, not existing - Ineligible
	Addition of Parking Lot				\$0.00	\$ -	Site Work -ineligible
	Playgrounds Equipment				\$0.00	\$ -	Site Work -ineligible
	Parking lots resufacing				\$0.00	\$ -	Site Work -ineligible
	Solar Panels	EA	\$25,000.0 0	1	\$25,000.00	\$ -	Improvement, not existing - Ineligible
	Trash Enclosures,	EA	\$ 3,500.00	5	\$17,500.00	\$ -	Site Work -ineligible
329113160350	Seeding, tractor spreader - sewer line replacement	MSF	\$ 55.50	33	\$ 1,831.50	0.00	Site Work -ineligible
329113234150	Fertilizer, tractor spreader - sewer line replacement	MSF	\$ 21.00	33	\$ 693.00	0.00	Site Work -ineligible
329113160350	Hay, power mulcher, large - sewer line replacement	MSF	\$ 55.50	33	\$ 1,831.50	0.00	Site Work -ineligible



D5092	Generator, Diesel, 130 to 300 kW, Replace	EA	\$117,990	1	\$ 117,990.00	0	Not justified replacement
	Total Rehab Cost (TRC) - Immidiate Needs (three years)				\$ 11,168,256.12	\$ 4,223,924.70	
Area Location facor	Adjusted TRC - Location factor		0.825		\$ 9,213,811.30	\$ 3,484,737.88	
Markup includes a and 3.5% 2017 Inflation Factor factors applied to the location adjusted unit cost.				the	\$ 322,483.40	\$ -	Disallowed. No inflation factor allowed.
	Total Adjusted Rehab Cost				\$ 9,536,294.69	\$ 3,484,737.88	
	Soft Cost						
General Condition	Permit, Insurance, Bonds etc.		5%		\$ 476,814.73	\$ 174,236.89	
Profit and Overhead up 10 %	Sub-Contractor's Profit and Overhead of TRC (e.g. HVAC, Electric, Plumbing, Elevator)		10%		\$ 953,629.47	\$ 348,473.79	
	Totals Constructio Cost (TRC)					\$ 4,007,448.56	



Contingency up to 7.5 %	Contingency 5 % to 10% of TRC	8%	\$ 822,505.42	\$ 300,558.64	
Architectural Fee (4 to 7 %)	Architectural/Engineer's design and construction monitoring fees	6%	\$ 603,170.64	\$ 220,409.67	
	Sub Totals Project Cost		\$ 12,392,414.96	\$ 4,528,416.87	
PHA Administrative Costs up to 2%	HA's Administration: 2%	2%	\$ 247,848.30	\$ 90,568.34	
	Total Project Rehab Cost		\$ 12,640,263.25	\$ 4,618,985.21	
		<mark>Actual provi</mark>	<mark>ded by HA</mark>		
	Total Project Rehab Cost		\$ 30,045,850.70	\$ 21,435,977.91	Approximately 29% Ineligible cost
		2017 TDC	\$ 37,015,680.00		
% of Rehab Cost					57.91% Greater than 57.14%



### Things to remember:

- Does it need repair?
- Does it need to be repaired in the next 3 years?
- Is it *physically* part of the building?
- Is it replacement or an upgrade?
- No escalators or inflation factors

#### Then ask yourself:

- If I submitted the list of repair items, what else would the municipal building department require?
- Is there supporting evidence of the code requirement?
- Is it 57.14% (non-elevator) or 62% (elevator) of TDC?



## Trick Questions: "Is it Part of an Obsolescence Review?"

- Age of the Building?
- Appliances?
- Parking lots, sidewalks, detached garages?
- Escalation factors?
- Replacement due to end of useful life?
- New non-existing items?
- Defensible space improvements?
- Modernization of kitchens?
- Cosmetic improvements?
- No PNA?

- No
- You always need a PNA



The one thing you need to remember:

Obsolescence review is "... an analysis of what existing items, within a building needs to be repaired immediately to keep it going;"



Questions?

For more information

Visit the SAC at <a href="https://www.hud.gov/sac">www.hud.gov/sac</a>

Email at <u>SACTA@hud.gov</u>

## When is an Obsolescence Review <u>Not</u> Required\*?

#### **Demolition:**

- DeMinimis Exception
- Health and Safety
- Natural Disasters
- Casualty Loss



<sup>\*</sup> All demolitions listed here still need proof of physical obsolescence but an alternative is often considered instead of a PNA (i.e. insurance adjuster report, photos, etc.)

#### **Disposition:**

- Health and Safety
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