"LIGHTHOUSE MODEL" TRANSITION FROM ATSC 1.0 TO **ATSC 3.0 IN TUCSON, AZ ON MAY 23, 2024** by Francis Chao fchao2@yahoo.com



# Web location for this presentation:

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# SUMMARY

The FCC has mandated that all existing ATSC 1.0 television channels that wish to upgrade to ATSC 3.0 are required to run both the existing ATSC 1.0 and new corresponding ATSC 3.0 channels until July 17, 2027. This cost-effective scheme to run both channels simultaneously is called "Lighthouse Model" transition.

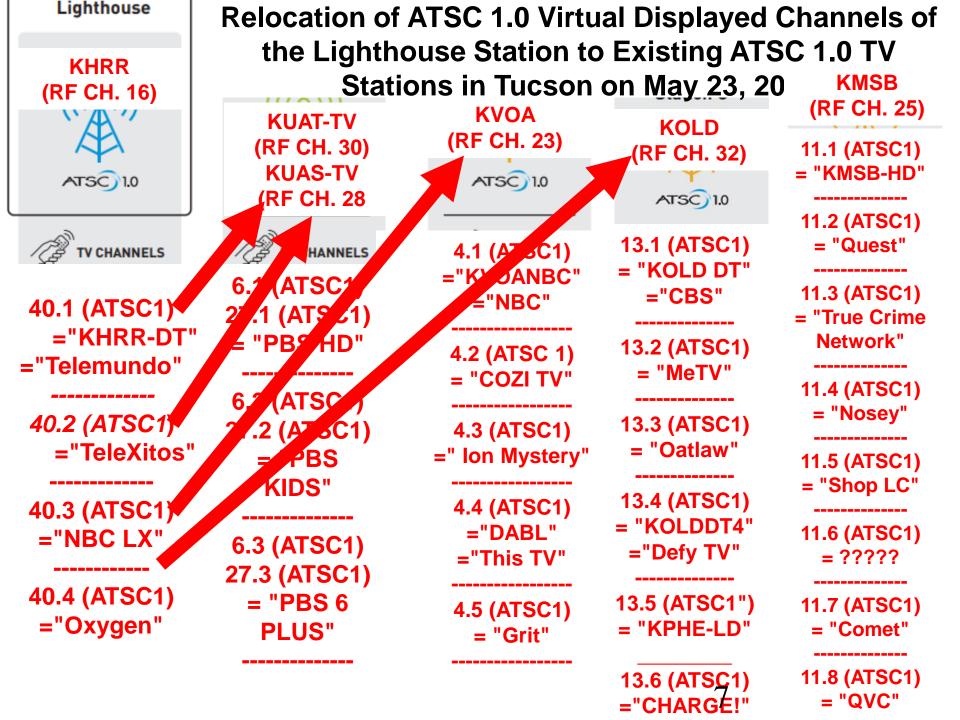
# FCC'S SIMULCAST MANDATE

 https://docs.fcc.gov/public/attachm ents/FCC-23-53A1.pdf

# FCC'S SIMULCAST MANDATE (continued)

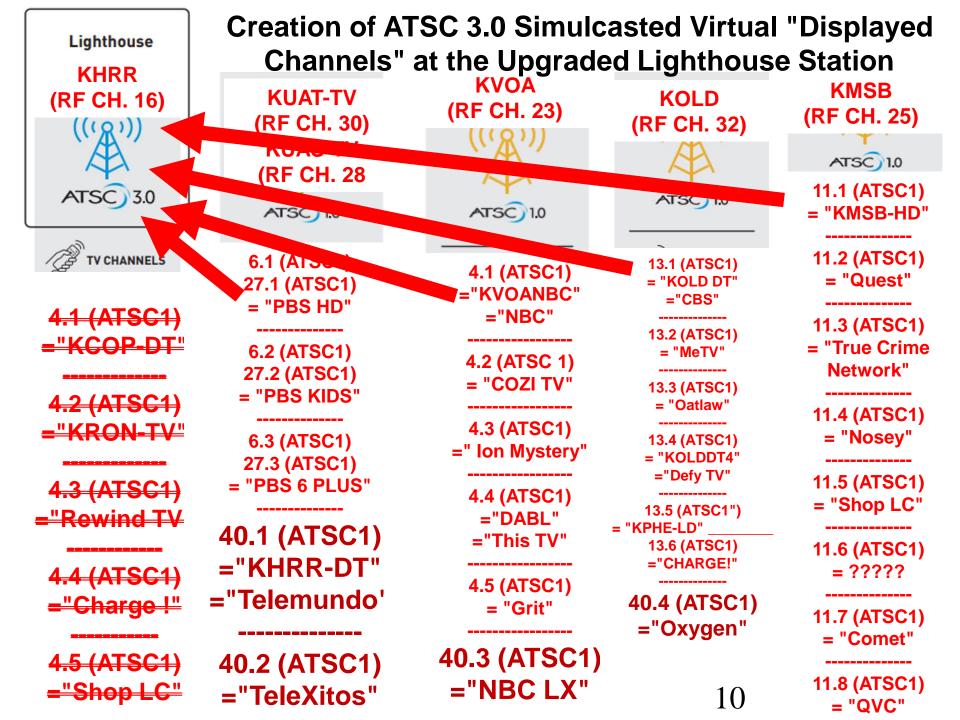
 https://www.atsc.org/wpcontent/uploads/2020/10/f-36-26-13322575\_PAu3M4S9\_WhitePape r\_Lighthouse\_TESTTREE\_v2.pdf

### Virtual "Displayed" Channels Prior to Lighthouse **KMSB** (RF CH. 25) Transition in Tucson on May 23, 2024 ATSC) 1.0 **KHRR KUAT-TV KVOA KOLD** (RF CH. 16) (RF CH. 30) (RF CH. 23) (RF CH. 32) 11.1 (ATSC1) (((鬼))) **KUAS-TV** = "KMSB-HD" 13.1 (ATSC1) (RF CH. 28 = "KOLD DT" 11.2 (ATSC1) ATSC) 1.0 ATSC)1.0 ATSC 1.0 ="CBS" = "Quest" TV CHANNELS 6.1 (ATSC1) 11.3 (ATSC1) 13.2 (ATSC1) 4.1 (ATSC1) = "True Crime 27.1 (ATSC1) 40.1 (ATSC1) = "MeTV" ="KVOANBC" **Network**" = "PBS HD" ="KHRR-DT" ="NBC" ="Telemundo" 13.3 (ATSC1) 11.4 (ATSC1) 6.2 (ATSC1) = "Oatlaw" 4.2 (ATSC 1) = "Nosey" 27.2 (ATSC1) 40.2 (ATSC1) = "COZI TV" 11.5 (ATSC1) = "PBS ="TeleXitos" 13.4 (ATSC1) = "Shop LC" KIDS" 4.3 (ATSC1) = "KOLDDT4" =" Ion Mystery" ="Defy TV" 40.3 (ATSC1) 11.6 (ATSC1) 6.3 (ATSC1) ="NBC LX" = ????? 4.4 (ATSC1) 27.3 (ATSC1) 13.5 (ATSC1") ="DABL" 11.7 (ATSC1) = "PBS 6 40.4 (ATSC1) = "KPHE-LD" ="This TV" = "Comet" PLUS" ="Oxygen" 13.6 (ATSC1) 4.5 (ATSC1) 11.8 (ATSC1) = "Grit" ="CHARGE!" = "QVC"



Lighthou	use	Relocation of ATSC 1.0 Virtual Displayed Channels of					
		the Lighthouse Station to Existing ATSC 1.0 TV					
KHRF		Stations in Tucson on May 23, 2024 (continued)					
(RF CH.	16)	KUAT-TV (RF CH. 30)	KVOA (RF CH. 23)	KOLD (RF CH. 32)	KMSB (RF CH. 25)		
ATSC	1.0	KUAS-TV (RF CH. 28	ATSC 1.0	13.1 (ATSC1) = "KOLD DT" ="CBS"	11.1 (ATSC1) = "KMSB-HD"		
₹ TV CHAI	NNELS	6.1 (ATSC1) 27.1 (ATSC1)	4.1 (ATSC1) ="KVOANBC" ="NBC"	= CBS  13.2 (ATSC1) = "MeTV"	11.2 (ATSC1) = "Quest"		
40.1 (AT		= "PBS HD"	4.2 (ATSC 1) = "COZI TV"	 13.3 (ATSC1)	11.3 (ATSC1) = "True Crime		
="KHR		6.2 (ATSC1) 27.2 (ATSC1)	4.3 (ATSC1)	= "Oatlaw"	Network"		
4 <del>0.2 (AT</del>	<del>SC1)</del>	= "PBS KIDS"  6.3 (ATSC1)	=" Ion Mystery"	13.4 (ATSC1) = "KOLDDT4"	11.4 (ATSC1) = "Nosey"		
="Tele	Xitos	27.3 (ATSC1) 27.8 (ATSC1) 27.8 6 PLUS"	4.4 (ATSC1) ="DABL" ="This TV"	="Defy TV"  13.5 (ATSC1")	11.5 (ATSC1) = "Shop LC"		
40.3 (AT) ="NBC		40.1 (ATSC1	4.5 (ATSC1)	= "KPHE-LD"	11.6 (ATSC1)		
40.4 (AT	<u></u> SC1)	= Telemund	= "Grit"	13.6 (ATSC1) ="CHARGE!" 	= ?????  11.7 (ATSC1)		
<del>="Oxyg</del>	_		40.3 (ATSC1) ="NBC LX	►40.4 (ATSC1)	= "Comet"		
		40.2 (ATSC1 ="TeleXitos		="Oxygen" 8	11.8 (ATSC1) = "QVC"		

as future Lighthouse	Relocation of ATSC 1.0 Virtual Displayed Channels of						
KHRR	the Lighthouse Station to Existing ATSC 1.0 TV						
(RF CH. 16)	KUAT-TV 1 Tucson in May 23, 2024 (continued)						
(((ぬ)))	(RF CH. 30)	KVOA	KOLD	KMSB			
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	KUAS-TV	(RF CH. 23)	(RF CH. 32)	(RF CH. 25)			
<b>*</b>	(RF CH. 28	<b>\</b>	$\sim$	ATSC 10			
ATSC) 1.0	ATSC) 1.0	ATSC) 1.0	ATSC 1.0	ATSC 1.0			
				11.1 (ATSC1) = "KMSB-HD"			
TV CHANNELS	6.1 (ATSC1)		TV CHANNELS	= KW3B-HD			
4.1 (ATSC1)	27.1 (ATSC1)	4.1 (ATSC1)	Z13.1 (ATSC1)	11.2 (ATSC1)			
="KCOP-DT"	= "PBS HD"	="KVOANBC"	= "KOLD DT" ="CBS"	= "Quest"			
<del>= NUUF-UI</del>	6.2 (ATSC1)	="NBC"		44.2 (ATCC4)			
4.0 (ATCO4)	27.2 (ATSC1)	4.2 (ATSC 1)	13.2 (ATSC1) = "MeTV"	11.3 (ATSC1) = "True Crime			
4.2 (ATSC1)	= "PBS KIDS"	= "COZI TV"	= IVIE I V	Network"			
<del>="KRON-TV"</del>	6.2 (ATCC4)		13.3 (ATSC1)				
	6.3 (ATSC1) 27.3 (ATSC1)	4.3 (ATSC1)	= "Oatlaw"	11.4 (ATSC1)			
<del>4.3 (ATSC1)</del>	= "PBS 6 PLUS"	=" Ion Mystery"	13.4 (ATSC1)	= "Nosey"			
="Rewind TV"		4.4 (ATSC1)	= "KOLDDT4" ="Defy TV"	11.5 (ATSC1)			
	40.1 (ATSC1)	="DABL"		= "Shop LC"			
<del>4.4 (ATSC1)</del>	="KHRR-DT"	="This TV"	13.5 (ATSC1") = "KPHE-LD"				
<del>="Charge !"</del>	="Telemundo'	4.5.(ATCC4)	= KPHE-LD	11.6 (ATSC1)			
	- Tolomanao	4.5 (ATSC1) = "Grit"	13.6 (ATSC1)	= ?????			
4.5 (ATSC1)	40.0 (47004)		="CHARGE!" 	11.7 (ATSC1)			
="Shop LC"	40.2 (ATSC1)	40.3 (ATSC1)	40.4 (ATSC1)	= "Comet"			
	="TeleXitos"	="NBC LX"	="Oxygen"	11.8 (ATSC1)			



**KHRR** (RF CH. 16) ATSC) 3.0

40.1 (ATSC3) = "KHRR"

6.1 (ATSC3) = "PBS HD"

4.1 (ATSC3) = "KBOANBC"

= "NBC"

13.1 (ATSC3) = "KOLD-DT"

**= "CBS"** 

11.1 (ATSC3) = "KMSB-HD"

9.1 (ATSC3) = "KGUN HD" = "ABC"

Creation of ATSC 3.0 Simulcasted Virtual "Displayed Channels" at the Upgraded Lighthouse Station

**KUAT-TV** (RF CH. 30) **KUAS-TV** (RF CH. 28

6.1 (ATSC1) 27.1 (ATSC1) = "PBS HD"

6.2 (ATSC1) 27.2 (ATSC1) = "PBS KIDS"

6.3 (ATSC1) 27.3 (ATSC1) = "PBS 6 PLUS"

40.1 (ATSC1) ="KHRR-DT"

="Telemundo'

40.2 (ATSC1) ="TeleXitos"

**KVOA** (RF CH. 23)



4.1 (ATSC1) ="KVOANBC" ="NBC"

4.2 (ATSC 1) = "COZI TV"

4.3 (ATSC1) =" Ion Mystery"

4.4 (ATSC1) ="DABL"

="This TV"

4.5 (ATSC1) = "Grit"

"NDC I V"

40.3 (ATSC1)

**KOLD** (RF CH. 32)



13.1 (ATSC1) = "KOLD DT" ="CBS" 13.2 (ATSC1)

= "MeTV" 13.3 (ATSC1) = "Oatlaw" 13.4 (ATSC1) = "KOLDDT4" ="Defy TV"

13.5 (ATSC1") = "KPHE-LD" 13.6 (ATSC1) ="CHARGE!"

> 40.4 (ATSC1) ="Oxygen"

> > 11

**KMSB** (RF CH. 25)



11.1 (ATSC1) = "KMSB-HD"

11.2 (ATSC1) = "Quest"

11.3 (ATSC1) = "True Crime **Network**"

11.4 (ATSC1) = "Nosey"

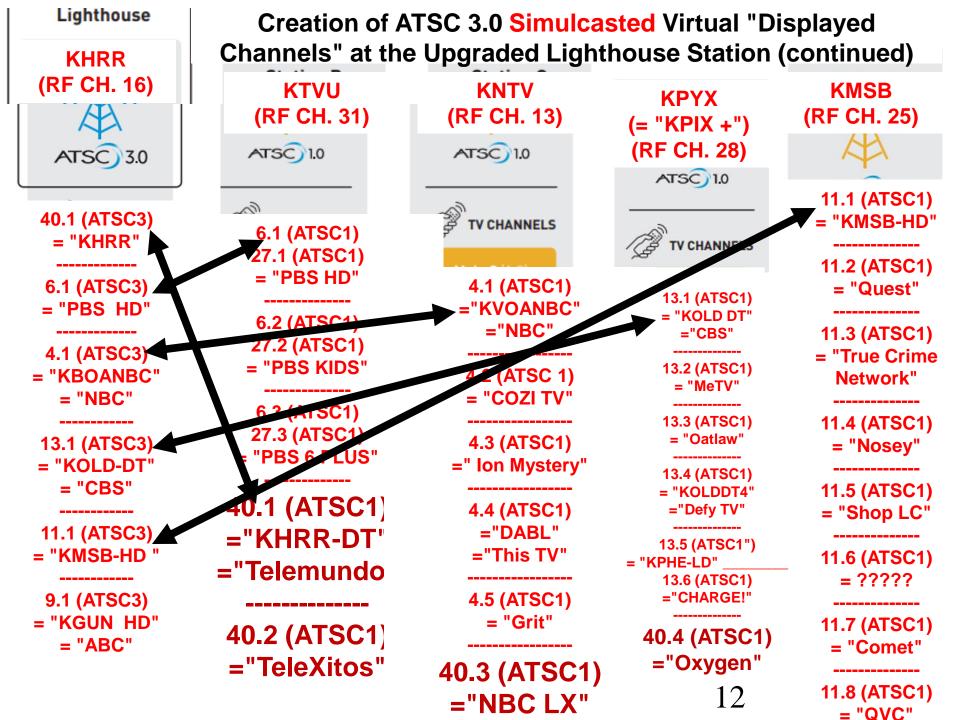
11.5 (ATSC1)

= "Shop LC" 11.6 (ATSC1)

= ????? 11.7 (ATSC1)

= "Comet" 11.8 (ATSC1)

= "QVC"



## NET RESULTS

 The 6 most powerful TV channels in Tucson are now "simulcast" in both the new "NextGen" ATSC 3.0 format and the legacy ATSC 1.0 formats

### ADDITIONAL DETAILS

 https://www.radiodiscussions.com/thr eads/nextgen-atsc-3-0-coming-totucson-may-23.771340/