"LIGHTHOUSE MODEL" TRANSITION FROM ATSC 1.0 TO **ATSC 3.0** IN SAN FRANCISCO 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. The 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 **Transition in San Francisco in 2022**

KRON-TV (RF CH. 7) ATSC 1.0

TV CHANNELS

4.1 (ATSC1)

4.2 (ATSC1)

4.3 (ATSC1)

="Rewind TV"

4.4 (ATSC1)

="Charge!"

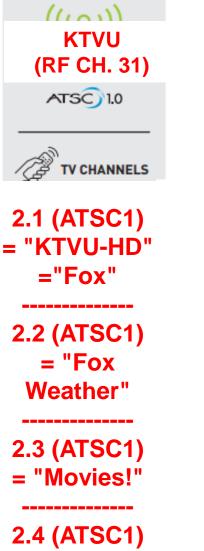
4.5 (ATSC1)

="Shop LC"

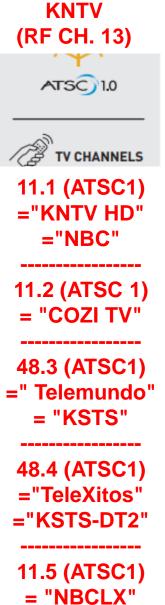
="KCOP-DT"

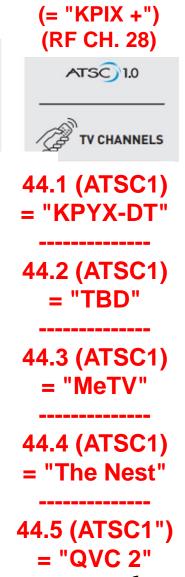
="KRON-TV"





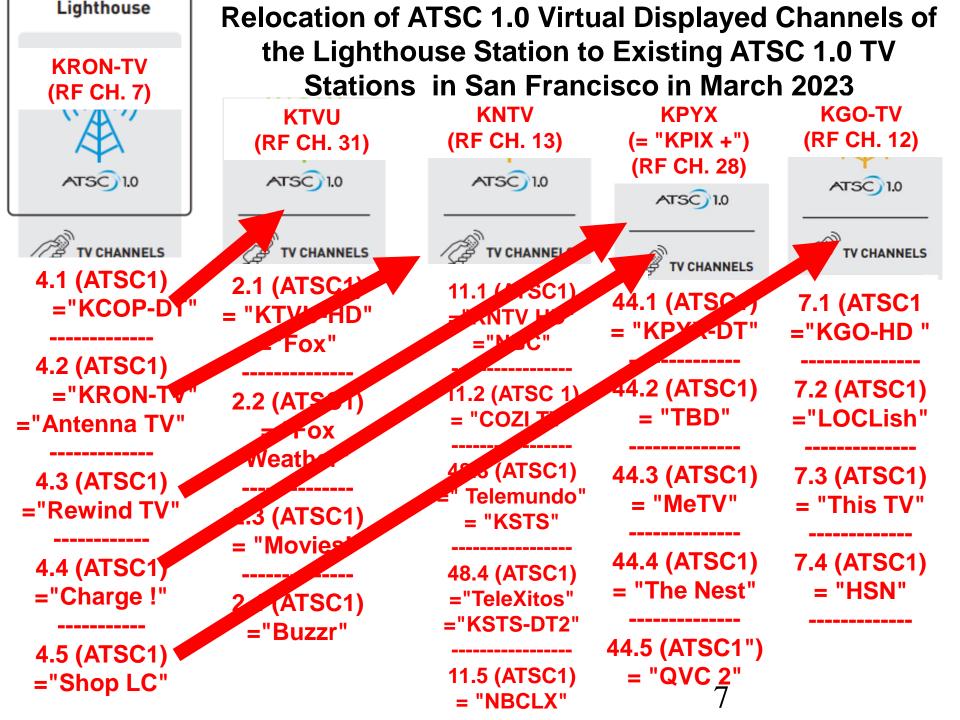
="Buzzr"

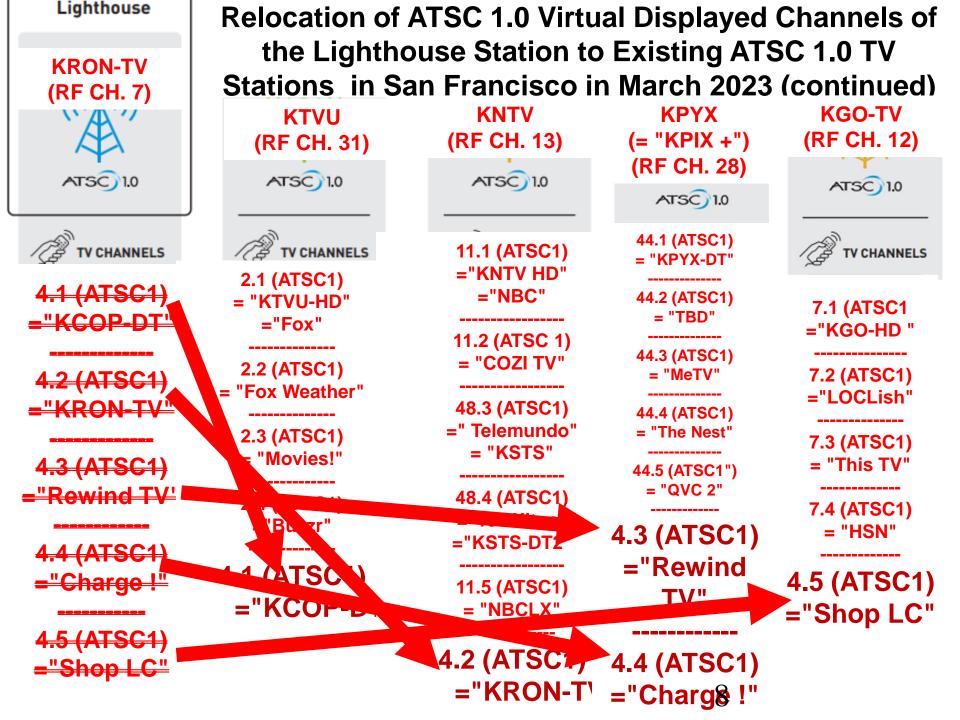


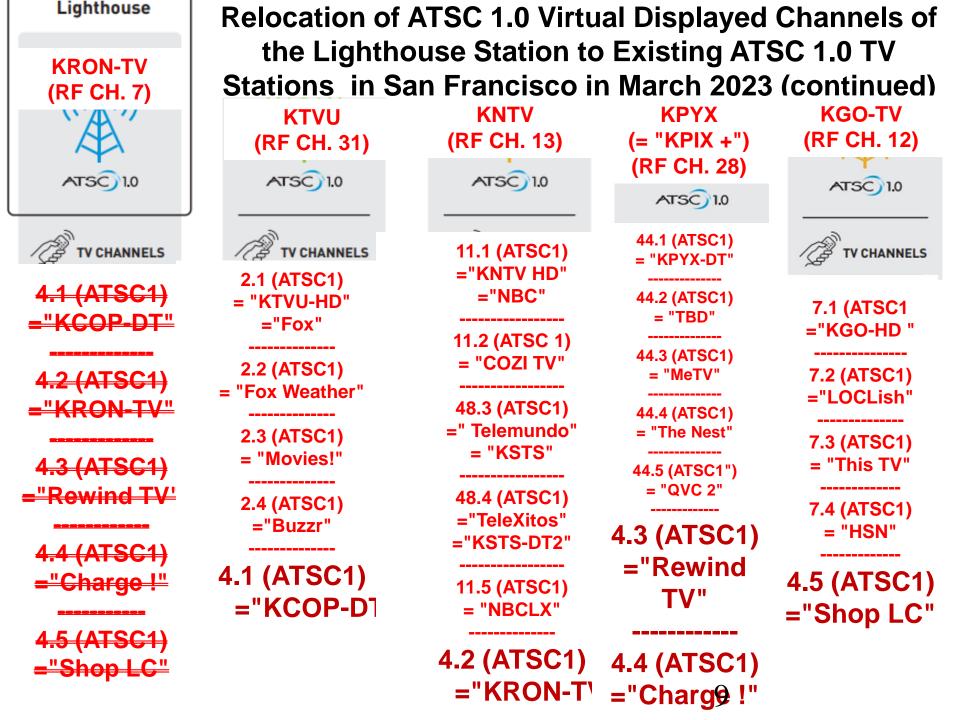


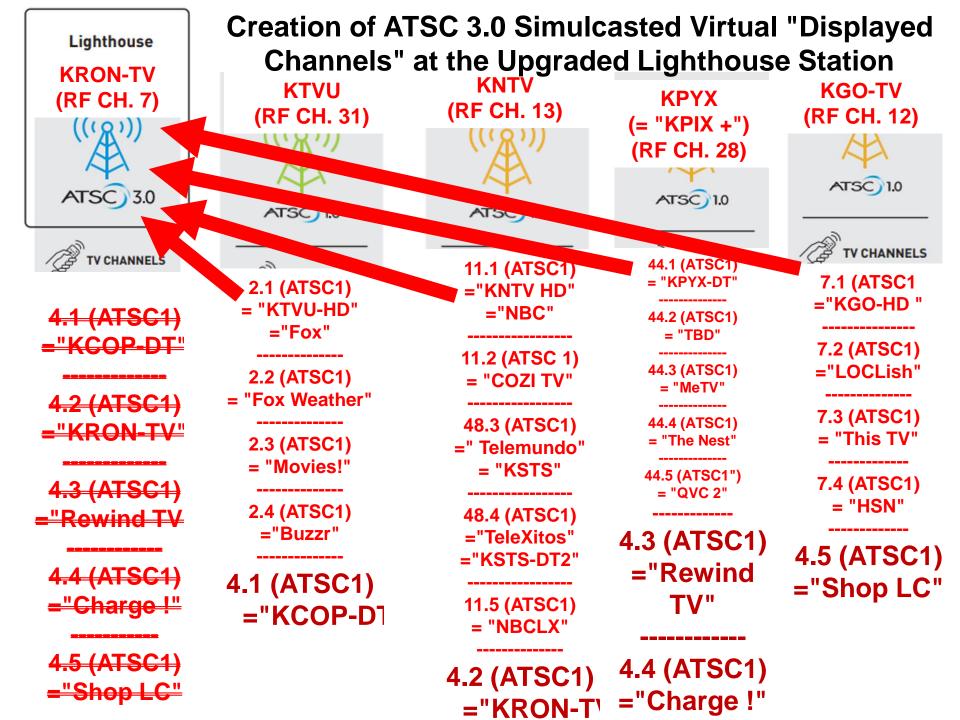
KPYX

KGO-TV (RF CH. 12) (((R))) ATSC) 1.0 TV CHANNELS 7.1 (ATSC1 ="KGO-HD" 7.2 (ATSC1) ="LOCLish" 7.3 (ATSC1) = "This TV" 7.4 (ATSC1) = "HSN"









KRON-TV (RF CH. 7)

2.1 (ATSC3) = "KTVU-HD" ------4.1 (ATSC3) = "KRON-TV

> 5.1 (ATSC3) = "KPIX-TV" = "CBS"

7.1 (ATSC3) = "KGO-HD" = "ABC"

11.1 (ATSC3) = "KNTV" = "NBC"

14.1 (ATSC3) = "KDTV-TV" = "Univision"

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

KTVU (RF CH. 31)



2.1 (ATSC1) = "KTVU-HD" = "Fox"

2.2 (ATSC1) = "Fox Weather"

> 2.3 (ATSC1) = "Movies!"

2.4 (ATSC1) ="Buzzr"

4.1 (ATSC1) ="KRON-T KNTV (RF CH. 13)



11.1 (ATSC1) ="KNTV HD" ="NBC" ------11.2 (ATSC 1) = "COZI TV"

48.3 (ATSC1) =" Telemundo" = "KSTS"

48.4 (ATSC1) ="TeleXitos" ="KSTS-DT2"

11.5 (ATSC1) = "NBCLX"

4.2 (ATSC1) ="KRON-TV KPYX (= "KPIX +") (RF CH. 28)



= "QVC 2" ------4.3 (ATSC1)

44.5 (ATSC1")

="Rewind TV"

4.4 (ATSC1) = "Charge!"

KGO-TV (RF CH. 12)





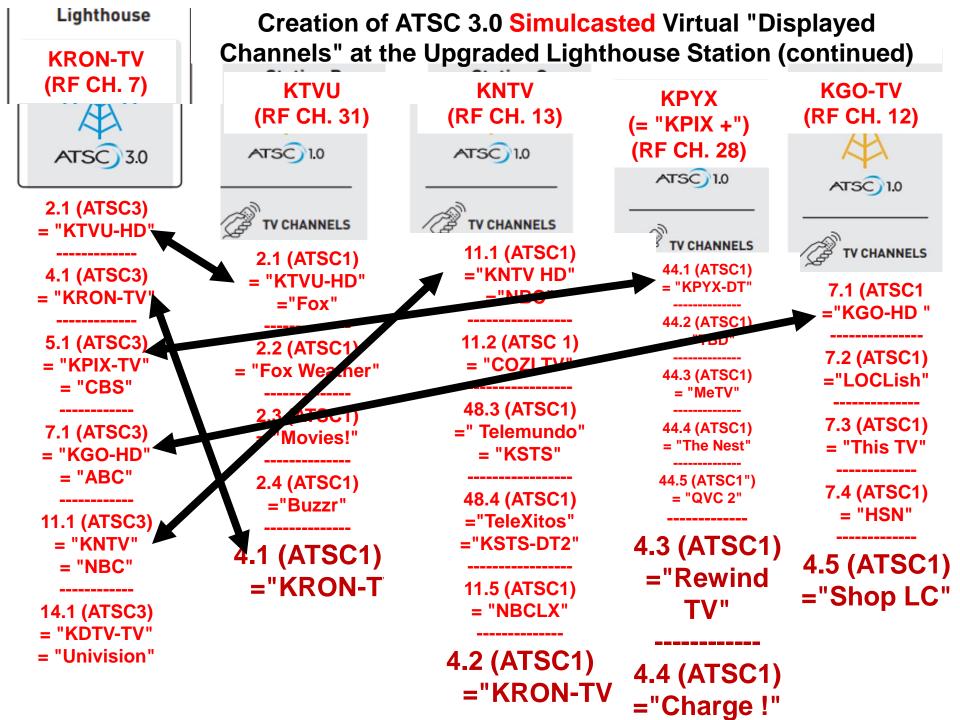
7.1 (ATSC1 ="KGO-HD"

7.2 (ATSC1) ="LOCLish"

7.3 (ATSC1) = "This TV"

7.4 (ATSC1) = "HSN"

4.5 (ATSC1) = "Shop LC"



NET RESULTS

- The 5 most powerful TV channels in San Francisco now "simulcast" in both the "NextGen" ATSC 3.0 and the legacy ATSC 1.0 formats
- The "Lighthouse" station called KRON-TV simulcasts main 4.1 subchannel, white it's other subchannels of 4.2, 4.3, 4.4, and 4.5 are now transmitted from the legacy ATSC 1.0 stations