





NBA ALL-STAR 2019

THE FILLMORE - MUSIC FACTORY
CHARLOTTE, NC













AMERICAN EXPRESS

*Zac
Brown
Band*

NBA TNT
AMERICAN EXPRESS
ROAD SHOW

NBA TNT
AMERICAN EXPRESS
ROAD SHOW
ZAC BROWN BAND

AMERICAN EXPRESS
ROAD SHOW





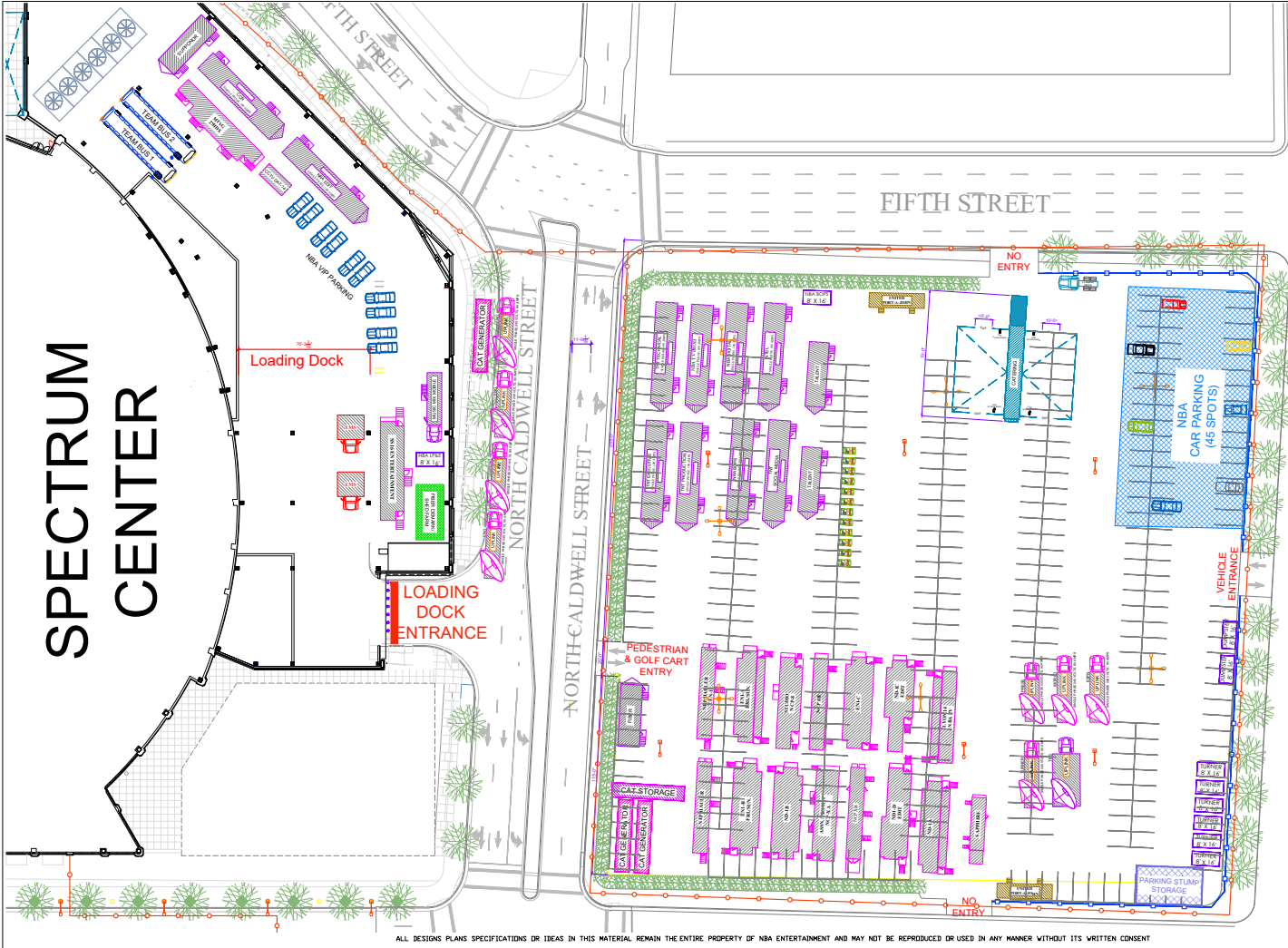




NBA ALL-STAR 2019
SPECTRUM CENTER
CHARLOTTE, NC







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REV.	DESCRIPTION	DATE
1	REVISION	11-15-2018
2	REVISION	11-22-2018
3	REVISION	11-29-2018
4	REVISION	12-04-2018
5	REVISION	12-06-2018
6	REVISION	12-20-2018
7	REVISION	12-25-2018
8	REVISION	12-27-2018
9	REVISION	01-01-2019
10	REVISION	01-08-2019
11	REVISION	01-10-2019
12	REVISION	01-15-2019
13	REVISION	01-17-2019
14	REVISION	01-29-2019
15	REVISION	01-31-2019
16	REVISION	02-04-2019
17	REVISION	02-05-2019

NORTH DAVIDSON STREET



100 Plaza Drive, Secaucus, NJ 07094				
LOCATION	AREA	BOOK OR RESERV.	SHEET	CLASS
450/1			XX	
DESCRIPTION: ALL-STAR GAME 2019 SPECTRUM CENTER BROADCAST COMPOUND				
DESIGNED BY	DATE	DRAWN BY	DATE	APPROVAL
D. BARRY	-			
DEPARTMENT NO.	DRAWING NO. & SUB.	CONSTR.	APPROVAL	SHEET
450/1	ASW19-SITE-BROADCAST COMPOUND			1/1







2019 NBA All Star Weekend

Feb 11 - 17, 2019

Transmission Shedule

All times Eastern



Wednesday, February 13, 2019

Begin	End	Event	Origination	Destination	Transport	Path	Audio	Stream?	MOC Rec?	Notes
1400	1800	TX FAX	Fillmore	Spectrum Center	Fiber/Sat	8,9,10,11	5.1	No	No	Test
1400	1800	TX FAX	Spectrum Center	Turner TOC	Fiber/Sat	1,2,3,4	5.1	No	No	Test

Notes:

Thursday, February 14, 2019

Begin	End	Event	Origination	Destination	Transport	Path	Audio	Stream?	MOC Rec?	Notes
1900	2330	Inside the NBA	Fillmore	Spectrum Center	Fiber/Sat	8,9	5.1	No	No	
1900	2330	Inside the NBA	Spectrum Center	Turner TOC	Fiber/Sat	1,3	5.1	No	Yes	Rear on NBA TV
2000	2230	NBA: OKC @ New Orleans	Turner TOC*	Spectrum Center	Fiber	5	Lt-Rt	No	No	For Hilites
2000	2230	NBA: OKC @ New Orleans	Spectrum Center	Fillmore	Fiber	10	Lt-Rt	No	No	For Hilites

Notes: * This feed needs to be a backhaul from New Orleans

Friday, February 15, 2019

Begin	End	Event	Origination	Destination	Transport	Path	Audio	Stream?	MOC Rec?	Notes
1330	1530	Eleague NBA event*	Fillmore	Spectrum Center	Fiber/Sat	8,9	5.1	Yes	Yes	Airs @ 2330 on TBS
1230	1700	Eleague NBA event*	Spectrum Center	Turner TOC	Fiber/Sat	2,4	5.1	Yes	Yes	Airs @ 2330 on TBS
2100	2330	Rising Stars Challenge	Spectrum Center	Turner TOC	Fiber/Sat	1,3	5.1	No	Yes	Rear on NBA TV
2100	2330	TNT Studio Halftime/Post**	Fillmore	Spectrum Center	Fiber/Sat	8,9	5.1	No	No	
2315	0000	AMEX Post Game concert***	Fillmore	Spectrum Center	Fiber/Sat	8,9	5.1	Yes	No	
2315	0000	AMEX Post Game concert***	Spectrum Center	Turner TOC	Fiber/Sat	1,3	5.1	Yes	No	Streams on social
2100	2300	TNT Overtime	Spectrum Center	Turner TOC	Fiber	7	Std	Yes	No	Standard TNT OT
2100	2300	EN1 PGM	Spectrum Center	Fillmore	Fiber	10	Lt-Rt	No	No	Allows for talk back
2100	2300	Game Cameras (8 feeds)	Spectrum Center	Fillmore	Fiber	11	L-R	No	Yes	For Hilites

Notes: *Stream will be stereo. This gets recorded live. If edits are needed, production will follow up.

** Will have S&P delay through studios for concert on Post Game show

*** Concert streams on NBAonTNT Facebook/Twitter/YouTube

Saturday, February 16, 2019

Begin	End	Event	Origination	Destination	Transport	Path	Audio	Stream?	MOC Rec?	Notes
1900	2000	TNT Studio Pregame	Spectrum Center	Turner TOC	Fiber/Sat	1,3	5.1	No	No	
2000	2230	ASSN	Spectrum Center	Turner TOC	Fiber/Sat	1,3	5.1	No	Yes	Rear on NBA TV
2000	2230	Area 21	Spectrum Center	Turner TOC/Studios	Fiber	2	L-R	Yes	No	PCR31 to control
2000	2230	TNT Overtime	Spectrum Center	Turner TOC	Fiber	7	Std	Yes	No	Standard TNT OT
2200	0100	AMEX Concert	Fillmore	Spectrum Center	Fiber	8	5.1	Yes	No	Record @ Spectrum
2230	0100	AMEX Concert*	Spectrum Center	Turner TOC/Studios	Fiber	4	L-R	Yes	No	

Notes: * Event will stream live- No S&P delay- anticipated start time is 2245. Streams on NBAonTNT Facebook/Twitter/YouTube

Sunday, February 17, 2019

Begin	End	Event	Origination	Destination	Transport	Path	Audio	Stream?	MOC Rec?	Notes
1900	2300	All Star Game*	Spectrum Center	Turner TOC	Fiber/Sat	1,2,3,4	5.1	No	Yes	Rear on NBA TV
2000	2300	Overtime	Spectrum Center	Turner TOC	Fiber	7	L-R	Yes	No	Standard TNT OT

Notes: * Halftime will have S&P delay on both networks



2019 NBA All Star Weekend

NBA TV
Feb 11 - 17, 2019

Transmission Schedule

All times Eastern



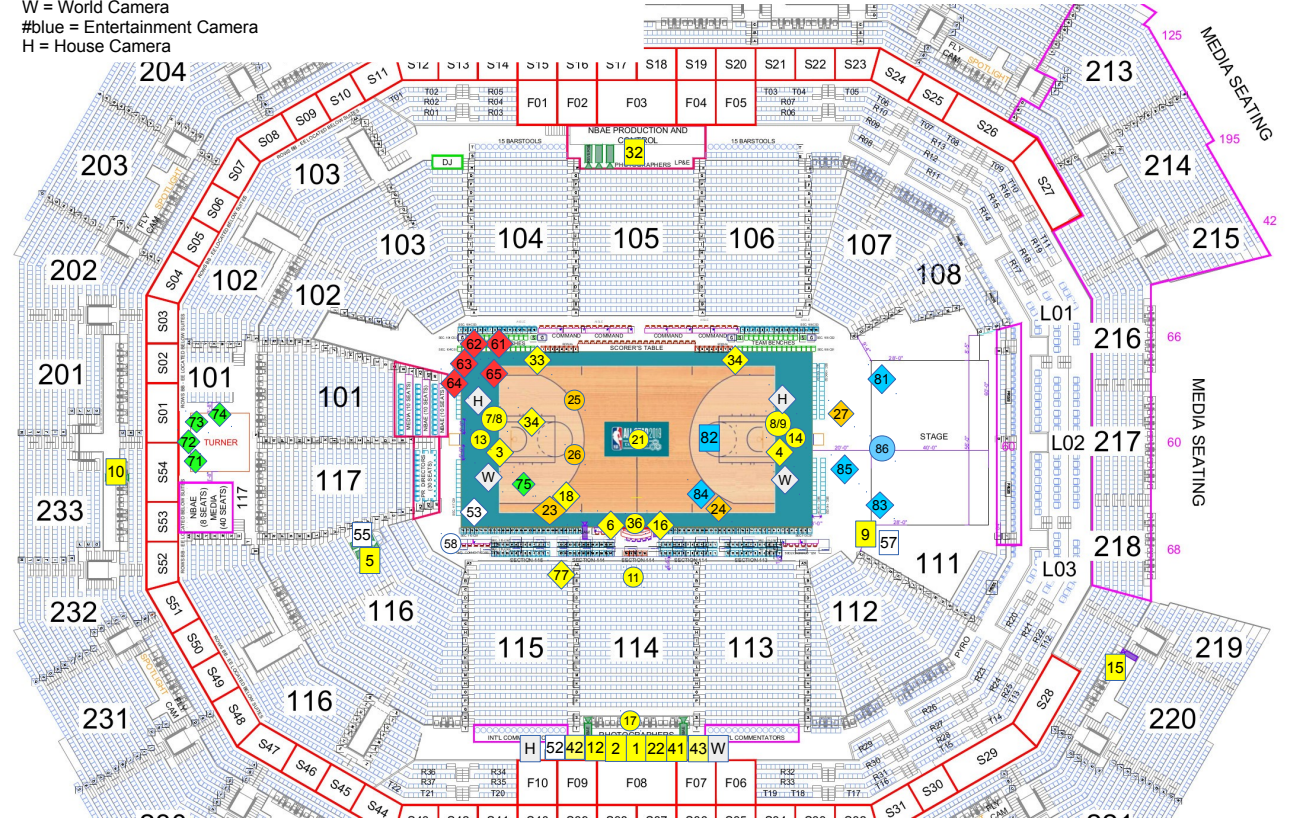
Wednesday, February 13, 2019										
Begin	End	Event	Origination	Destination	Transport	Video	Audio	Stream?	MOC Rec?	Notes
1400	1700	TX FAX	Spectrum Center	Turner TOC	HSAN	HD	L-R	No	No	Test
Notes:										
Thursday, February 14, 2019										
Begin	End	Event	Origination	Destination	Transport	Video	Audio	Stream?	MOC Rec?	Notes
1600	1800	TX FAX	BoJangles Coliseum	Turner TOC	Uplink	HD	L-R	No	No	Test
1630	1900	Gametime	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	No	
2230	2330	Inside the NBA	Fillmore	NBA TV MOC	Fiber	HD	L-R	No	Yes	Airs encore & next day
Notes:										
Friday, February 15, 2019										
Begin	End	Event	Origination	Destination	Transport	Video	Audio	Stream?	MOC Rec?	Notes
1100	1230	Rising Stars Practice	BoJangles Coliseum	NBA TV BOC	Uplink	HD	L-R	No	Yes	Rear @ 1900
1230	1700	Gametime (Roundtable)	Spectrum Center	NBA TV BOC	Uplink	HD	L-R	Yes	Yes	Rear @ 2030
1700	1730	Hall of Fame Press Conf	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	No	
1730	1900	The Starters	BoJangles Coliseum	NBA TV BOC	Uplink	HD	L-R	No	No	
1900	2100	Celebrity Game (ESPN)*	BoJangles Coliseum	NBA TV MOC	HSAN/NJ	HD	L-R	No	Yes	Rear @ 0100 on 2/16
2100	2300	Rising Stars Challenge	Spectrum Center	NBA TV MOC	Level 3	HD	Dolby	No	Yes	Rear @ 0230 on 2/16
2300	2345	Inside the NBA	The Fillmore	NBA TV MOC	Level 3	HD	L-R	No	Yes	Rear overnight
2330	0000	Gametime	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	Yes	Wheel- live to tape
2300	0020	Post event Presser	Spectrum Center	NBA.com	NBA Uplink	HD	L-R	Yes	No	NBA.com only
Notes: *This will be cut down in studios and fed over to MOC										
Saturday, February 16, 2019										
Begin	End	Event	Origination	Destination	Transport	Video	Audio	Stream?	MOC Rec?	Notes
0930	1130	Media Day	BoJangles Coliseum	NBA TV BOC	Uplink	HD	L-R	Yes	No	
1130	1200	Gametime	BoJangles Coliseum	NBA TV BOC	Uplink	HD	L-R	No	No	
1230	1400	A/S Practice	BoJangles Coliseum	NBA TV BOC	Uplink	HD	L-R	No	Yes	Rear @ 1700
1230	1700	Gametime	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	No	
1400	1430	Pop-a-shot Competition*	BoJangles Coliseum	Turner TOC	Uplink	HD	L-R	No	No	reroute->HSAN Ret.
1900	2000	Silver Press Conf.	Spectrum Center	NBA TV BOC/NBA.com	HSAN	HD	L-R	Yes	No	
2000	2230	ASSN	Spectrum Center	NBA TV MOC	Level 3	HD	Dolby	No	Yes	Rear @ 0030- 2/17
2230	2330	NBA TV Gametime	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	Yes	Wheel
2035	2105	Skills Winner Availability	Spectrum Center	NBA TOC/NBA.com	NBA Uplink	HD	L-R	Yes	No	NBA.com only
2115	2145	3 Pt Winner Availability	Spectrum Center	NBA TOC/NBA.com	NBA Uplink	HD	L-R	Yes	No	NBA.com only
2220	2250	Dunk Winner Availability	Spectrum Center	NBA TOC/NBA.com	NBA Uplink	HD	L-R	Yes	No	NBA.com only
Notes:										
* This feed will be routed down the HSAN Return feed to NBA TV at Spectrum Center for recording										
There will be post event press conferences that will need to be streamed to NBA.com.										
Sunday, February 17, 2019										
Begin	End	Event	Origination	Destination	Transport	Video	Audio	Stream?	MOC Rec?	Notes
1100	1230	Legends Brunch*	CLT Convention Center	NBA TV Studios	Uplink	HD	L-R	Yes	No	airs on delay @ 1500
1500	1900	Gametime	Spectrum Center	NBA TV BOC	HSAN	HD	L-R	No	No	
2000	2300	Twitter All Star Live**	Spectrum Center	Studios PCR 31	HSAN	HD	L-R	Yes	No	
2020	2300	All Star Game	Spectrum Center	NBA TV MOC	Level 3	HD	Dolby	No	Yes	Rear @ 0200- 2/20
2300	0000	Inside the NBA***	Spectrum Center	NBA TV BOC	Level 3	HD	L-R	No	Yes	Wheel (LIVE)
2300	0020	Post event Presser	Spectrum Center	NBA.com	NBA Uplink	HD	L-R	Yes	No	NBA.com only
Notes: * This will air on tape delay from Studios to TOC and then BOC.										
** This show will go to Studios PCR31 to stream live to Twitter										
*** Inside the NBA airs LIVE on NBA TV and will NOT air on TNT- source will be TNT Integration- PCR 23 to NBA TV BOC										

2019 NBA All Star - Camera Chart V8

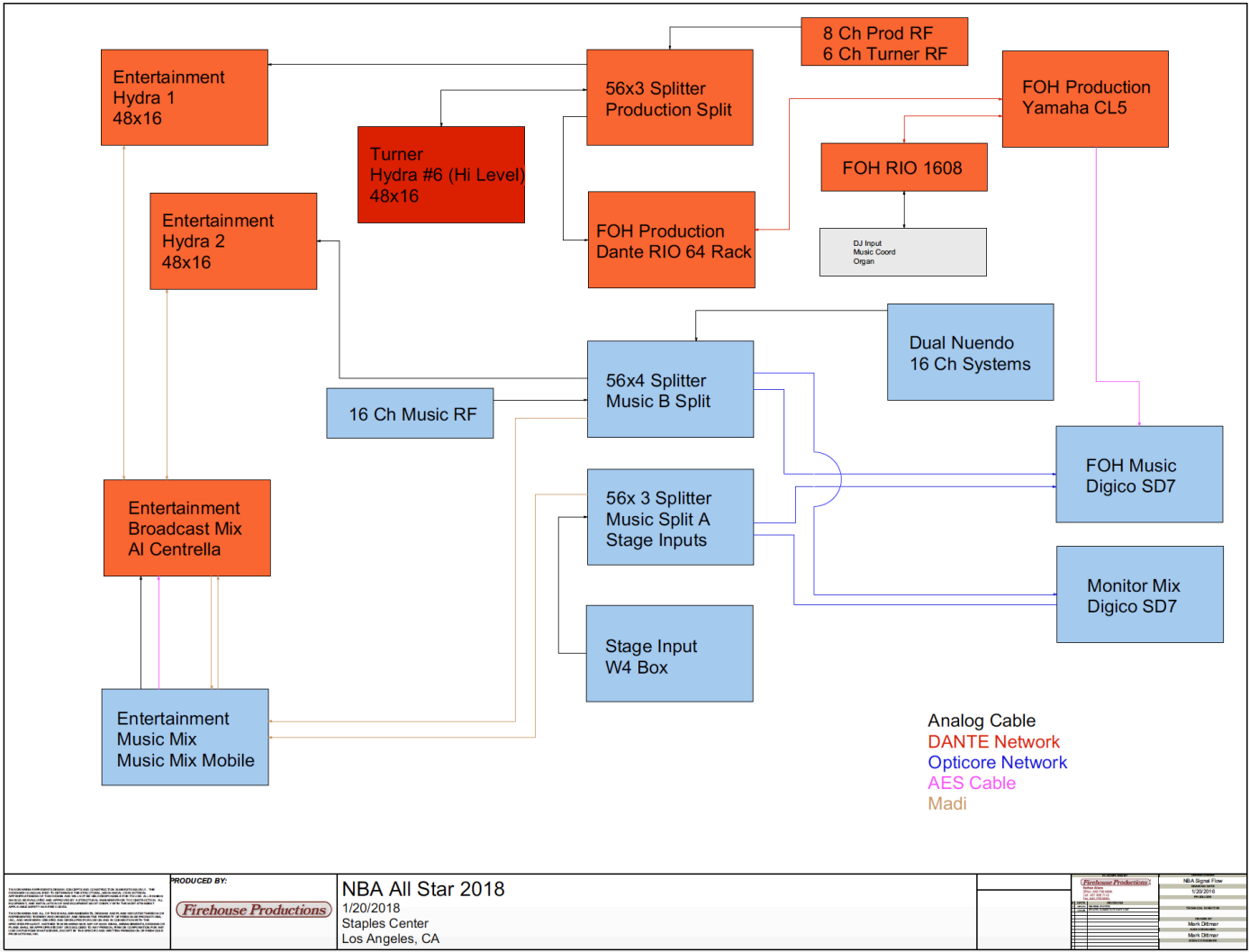
#yellow TNT Game
 #Orange TNT Saturday ONLY cameras
 #green TNT Inside the NBA
 #red NBA-TV
 #White = Sunday TBS Sidecast
 W = World Camera
 #blue = Entertainment Camera
 H = House Camera

- ◆ 76 Studio Exterior Jib
- 30 Body Cam
- ◆ 65 LR Drop
- ◆ 37 East LR HH
- ◆ 38 West LR HH

- #### Legend
- Hard Cam
 - Hand Held
 - Robo



Version 9										
Show Numbers			Assignment	Location	Panel	Panel Name	Cable Type	Cable #	HOUSE PANEL CABLE	Note
FRI	SAT	SUN								
1	1	1	Game - Supponor World Ads	Game Platform	Z2B-03-P	Game Follow 1	SMPTE	1	HOME RUN	Home Run
2	2	2	Tight ISO #1	Game Platform	Z2B-03-P	Game Follow 1	SMPTE	2	A-RED	
3	3	3	Left Basket HH	Left Basket	Z1D-01-R	Ice Pit West	SMPTE	1	A-ORG	
4	4	4	Right Basket HH	Right Basket	Z1B-05-R	SE Vom	SMPTE	1	A-YEL	
5	5	5	Left Low Slash	Left Low Slash Platform	Z1B-01-R	Low Slash West	SMPTE	1	A-GRN	
6		6	Left Mid Court HH	Left of Annc Table	Z1B-03-R	Center Court South	SMPTE	1	A-BLU	
9	7	9	Right Low Slash	Rolling Platform	Z1B-05-R	Low Slash East	SMPTE	1	A-VIO	
7	8	7	Left ATR Robo	Above Left Basket	Z1D-01-R	Ice Pit West	NewST	45,46		
8	9	8	Right ATR Robo	Above Right Basket	Z1B-05-R	SE Vom	NewST	9,10		
10	10	10	Left High End Zone	Sec 233 ADA	Z7C-02-P	High Beauty West	SMPTE	1	B-1	
z	11	11	Skycam	Sec 222 ADA	Z4B-01-P	Suite Alternate House				
12	12	12	Tight ISO #2	Game Platform	Z2B-03-P	Game Follow 1	SMPTE	3	B-2	
13	13	13	Left BTG Robo	Behind Left Glass	Z1D-01-R	Ice Pit West	SMPTE	2	B-3	
14	14	14	Right BTG Robo	Behind Right Glass	Z1B-05-R	SE Vom	SMPTE	2	B-4	
15	15	15	Right High Slash	Sec 220 ADA	Z4B-01-P	Suite Alt. Host Suite S28	SMPTE	1	B-5	
16		16	Right Mid Court HH	Right of Annc Table	Z1B-03-R	Center Court South	SMPTE	2	C-1	
17	17	17	Beauty Robo	Game Platform	Z1B-05-R	SE Vom	NewST	37, 38		TNT Game Cam TAC12 extension
18	18	18	RF Steadicam #1 (TNT)	Roving		AVS				
19	19	19	RF Steadicam #2 (Entertainment)	Roving		AVS				
20	20	20	Blimp or other aerial		FEED					
21	21	21	Scoreboard Hot Head Robo	Under Scorbord	FEED					
22	22	22	Tight ISO #3	Game Platform	Z2B-03-P	Game Follow 1	SMPTE	4	C-2	
	23		Left Near Side HH	Left FT Line Extended	Z1D-01-R	Ice Pit West	SMPTE	3	C-3	
	24		Right Near Side HH (From Cam 6)	Right FT Line Extended	Z1B-05-R	SE Vom	SMPTE	3	C-4	
	25		Nearside Pylon Go Pro	On the court		AVS				
	26		Farside Pylon Go Pro	On the court		AVS				
	6		Enlouva Crane	In front of the stge	Z1A-01-R	Broadcast Announce	SMPTE	3	D-1	
29	29	29	Intel VR		FEED					
32	32	32	Reverse ISO	Reverse game Platform	Z2D-02-P	Broadcast	ST	1,2		Shed @ Camera
33	33	33	Left Bench HH	End of Left Bench	Z1A-01-R	Broadcast Announce	SMPTE	1	D-2	
34	34	34	Right Bench HH	End of Right Bench	Z1A-01-R	Broadcast Announce	SMPTE	2	D-3	
35	35	35	Locker Room Hallway Robo	TBD	Z1A-01-R	Broadcast Announce	NewST	41,42		
36	16	36	Game Annc. Table Robo	On the TNT Annc Table	Z1B-03-R	Center Court South	NewST	45, 46		
37		37	Home Locker Room HH	Outside Hornets LR Door	Z1D-07-P	Visitor Locker Room	SMPTE	2	D-4	
38		38	Visitor Locker Room HH	Outside Visitor LR Door	Z1D-07-P	Visitor Locker Room	SMPTE	1	D-5	
39	39	39	Shot & Game Clock	Cable Room						
40	40	40	Snoop Cam	Game Platform	Z1B-05-R	SE Vom	NewST	35, 36		TNT Game Cam TAC12 extension
41	41	41	NBA Mobile View	Game Platform	Z2C-01-P	Game Follow 2	SMPTE	1	E-1	
42	42	42	NBA OT #1	Game Platform	Z2C-01-P	Game Follow 2	SMPTE	2	E-2	
43	43	43	NBA OT #2	Game Platform	Z1B-05-R	SE Vom	NewST	39, 40		TNT Game Cam TAC12 extension
52		52	SxS Tight Iso	Game Platform	Z2C-01-P	Game Follow 2	SMPTE	4	HOME RUN	Home Run
53		53	RF Hand Held	Roving		AVS				
55		55	SxS Low Left Slash	Low Left Slash	Z1C-06-P	Low Slash West	SMPTE	2	E-3	
57		57	SxS Low Right Slash	Rolling Platform	Z1B-01-B	Low Slash East	SMPTE	2	E-4	
58		58	Sidecast Annc Table Robo	On the TBS Annc Table	Z1B-03-R	Center Court South	NewST	41, 42		
71	71	71	TNT Studio Cam		FEED					
72	72	72	TNT Studio Cam		FEED					
73	73	73	TNT Studio Cam		FEED					
74	74	74	TNT Studio Cam		FEED					
75	75	75	TNT Studio Red Carpet Drop		FEED					
76	76	76	TNT Studio Exterior Jib		FEED					
Area 21										
77	77	77	Talent Camera	Roving Left Side	Z1D-01-R	Ice Pit West	NewST	43, 44		Shed @ Panel



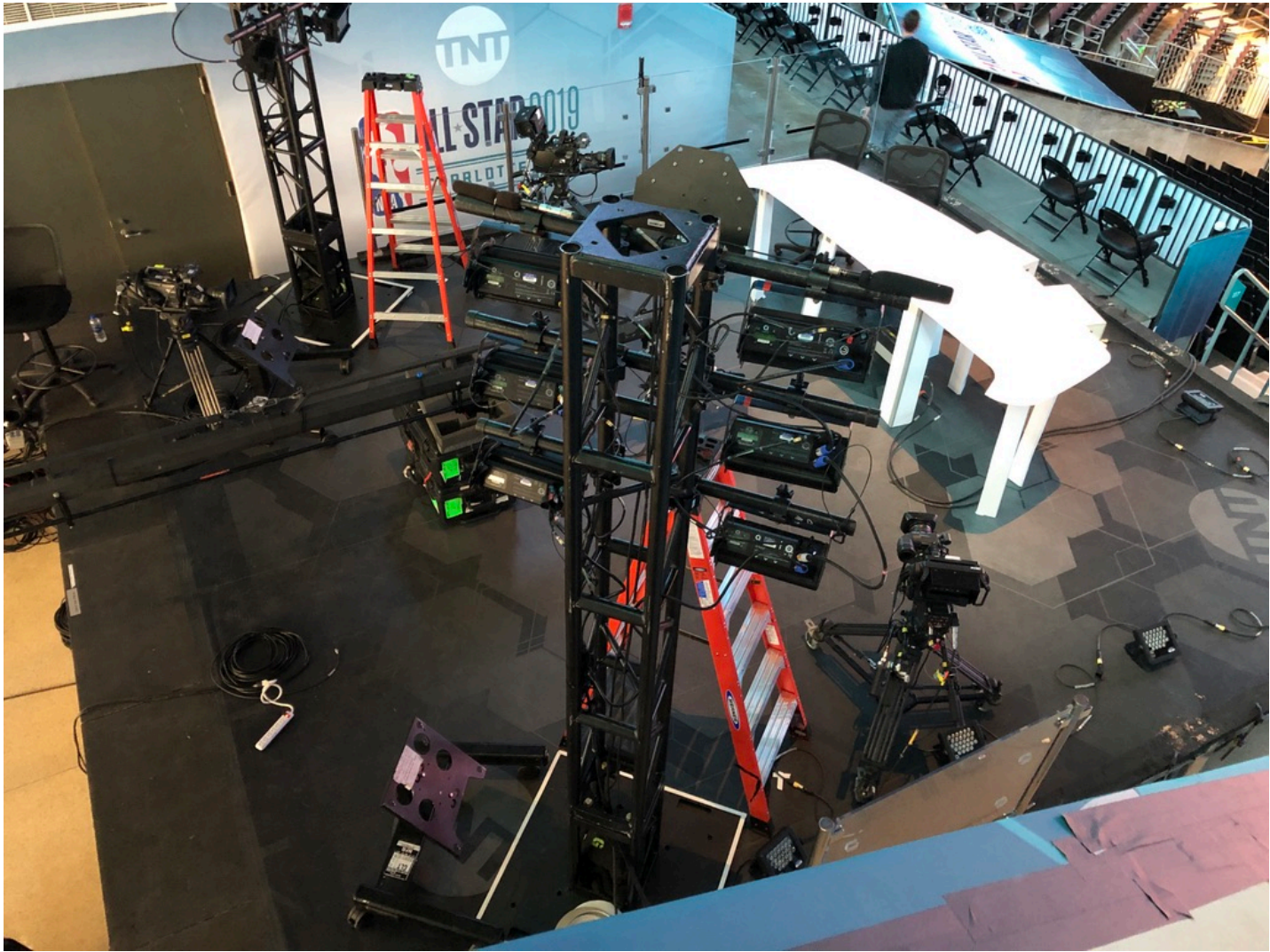
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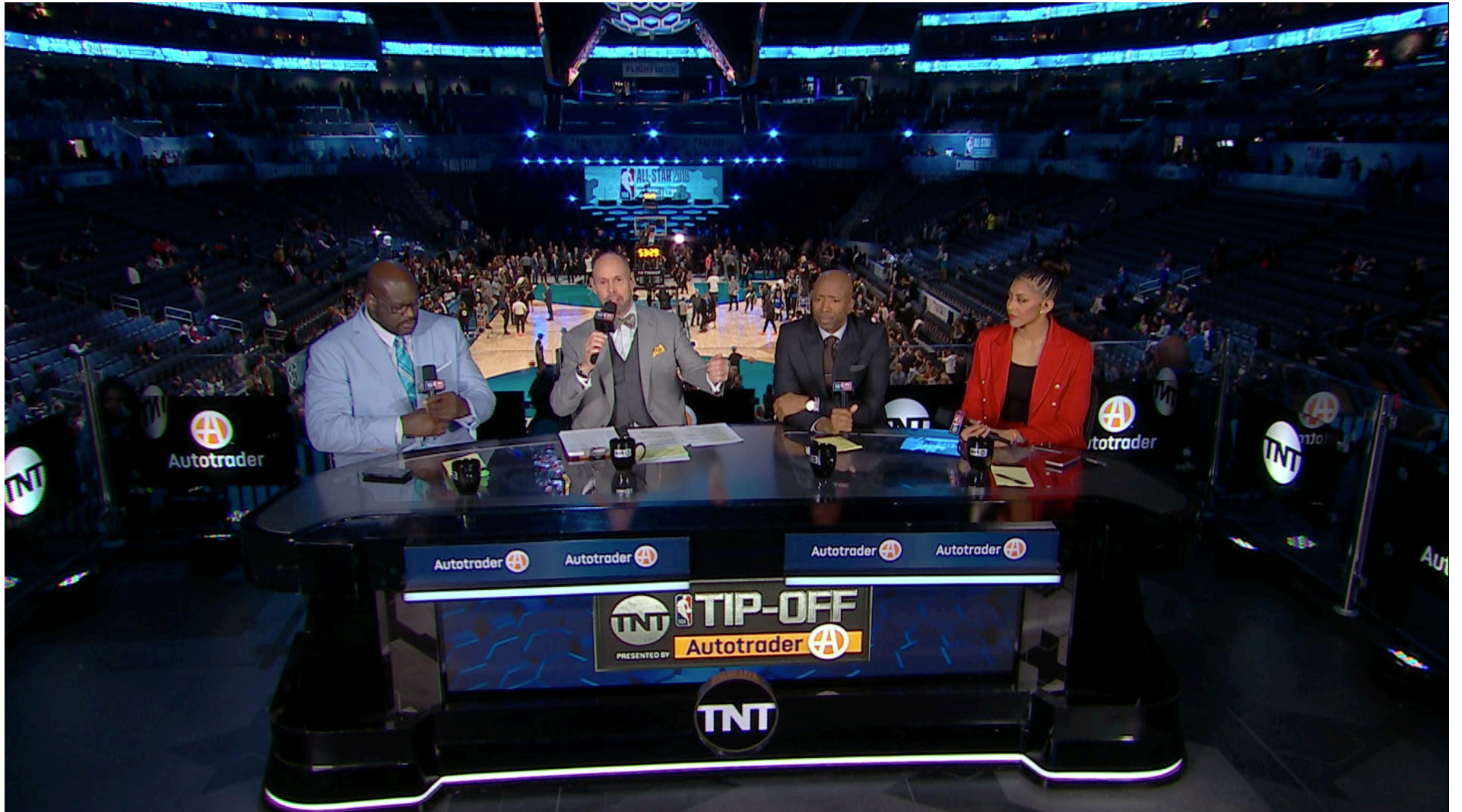
NBA All Star 2018
 1/20/2018
 Staples Center
 Los Angeles, CA

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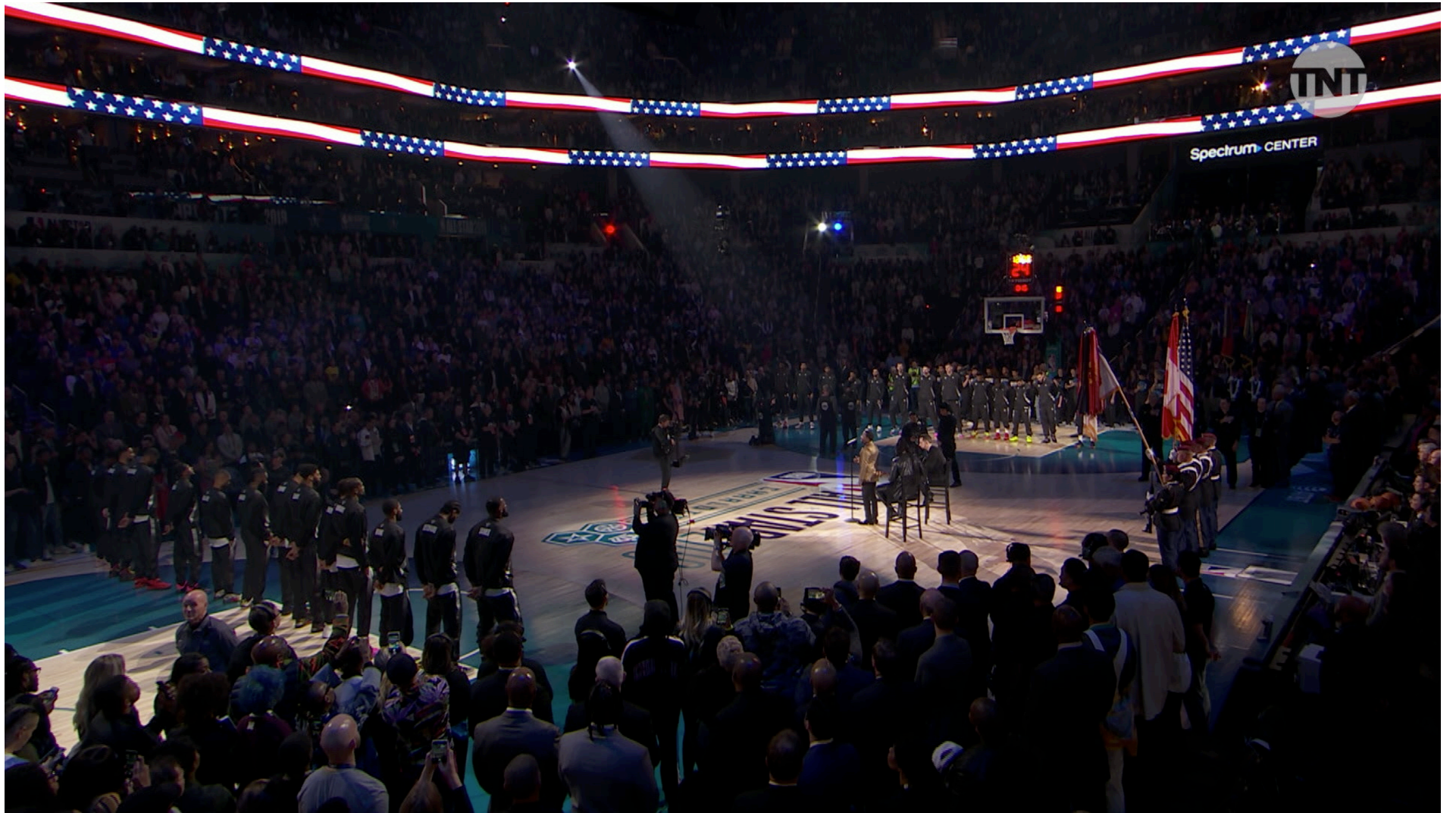
Client	NBA All Star 2018
Event	1/20/2018
Location	Staples Center
Project Manager	Mark Ormerod
System Designer	Mark Ormerod
System Installer	Mark Ormerod
System Operator	Mark Ormerod
System Maintainer	Mark Ormerod















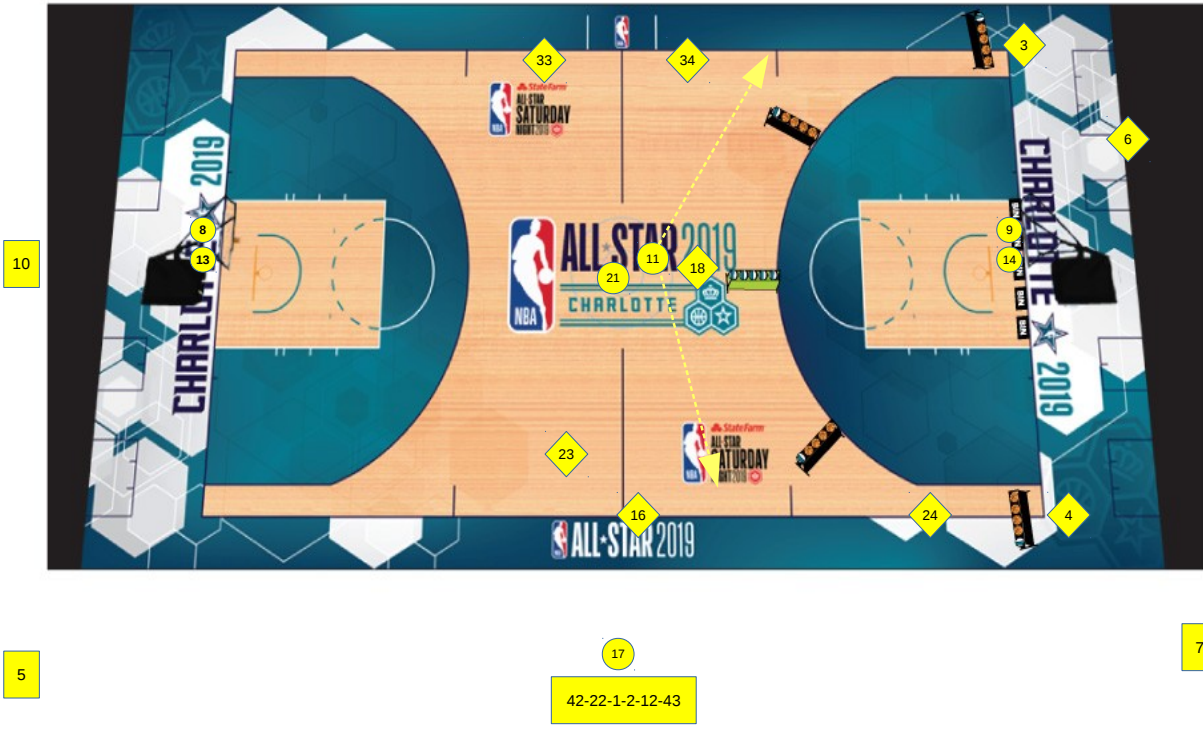




3 Point Camera Layout

32

- # Hand Held Camera
- # Robotic Camera
- # Hard Camera





Dunk
Camera Layout

32

- # Hand Held Camera
- # Robotic Camera
- # Hard Camera



10

5

17
42-22-1-2-12-43

7

15



Skills
Camera Layout

32

- ◆ # Hand Held Camera
- # Robotic Camera
- # Hard Camera



10

5

17
42-22-1-2-12-43

7

15

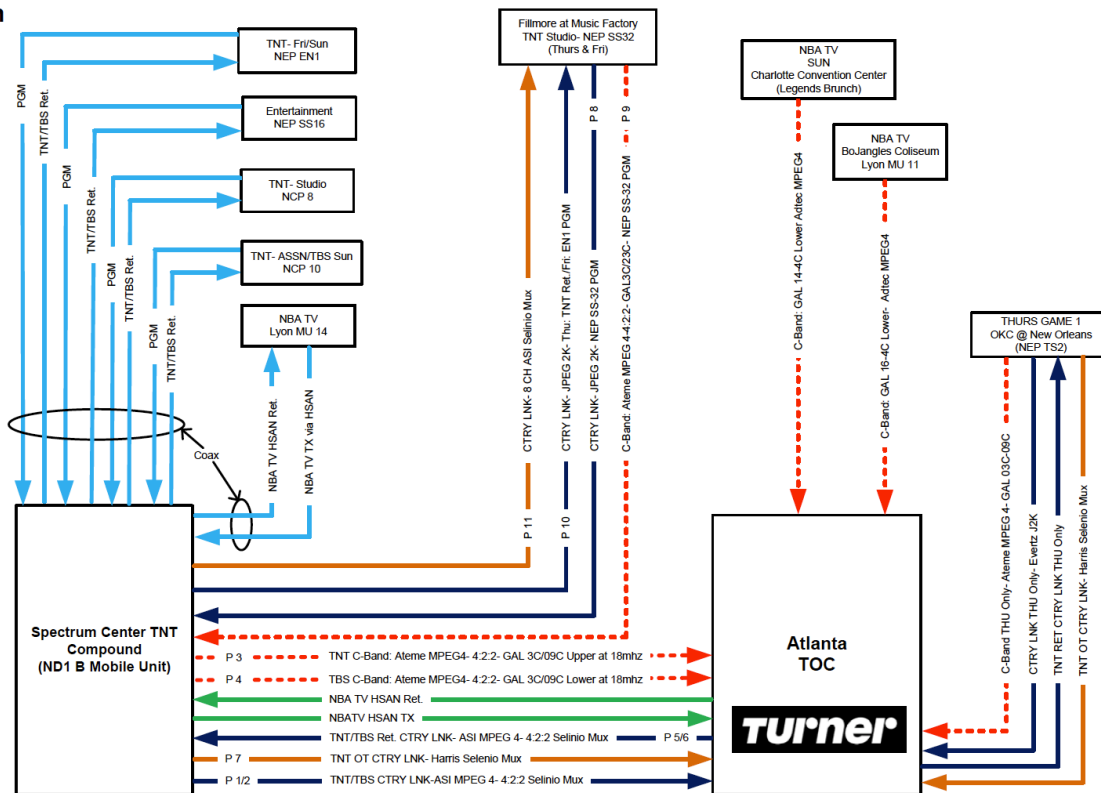








Transmission Plan



*Each MU PGM output at Spectrum will have discreet embedded audio



TNT/TBS Transmission Services

- Path 1: TNT Fiber
- Path 2: TBS Fiber
- Path 3: TNT Sat
- Path 4: TBS Sat
- Path 5: TNT Return
- Path 6: TBS Return
- Path 7: TNT Overtime Fiber Mux (8 Services)
- Path 8: Fillmore => Spectrum Fiber
- Path 9: Fillmore => Spectrum Sat
- Path 10: Spectrum => Fillmore Fiber
- Path 11: Spectrum => Fillmore Mux (8 Services)

*Paths 1 & 2 are a fiber mux- back up encoding will be via Calhoun encoding to fiber path 1 & 2

*Paths 3 & 4 has TNT at 18 mhz, upper & TBS at 18mhz lower



TNT/TBS Audio Layout

- **Pair 1**
 - CH 1 – Stereo PGM Left
 - CH 2 – Stereo PGM Right
- **Pair 2**
 - CH 3 – INTL Left (no commentary)
 - CH 4 – INTL Right (no commentary)
- **Pair 3**
 - CH 5 – Minus Music Left
 - CH 6 – Minus Music Right
- **Pair 4**
 - CH 7 – Silence or Dolby E if used
 - CH 8 – Silence or Dolby E if used
- **Pair 5**
 - CH 9 – 5.1 Left
 - CH 10 – 5.1 Right
- **Pair 6**
 - CH 11 – 5.1 Center
 - CH 12 – 5.1 LFE
- **Pair 7**
 - CH 13 – 5.1 Left Surround
 - CH 14 – 5.1 Right Surround
- **Pair 8**
 - CH 15 – SAP/Radio
 - CH 16 – Radio

02:27:46

02:2

boland

TX-1 TNT FIBER	TX-2 TNT SAT	TX-3 NBA CLEAN	TX-4 NBA DTY	TBS-1 FIBER	TBS-2 SAT
EN1 TX1	NCP 10 TX1	NCP 8 TX1	SS 16 TX1	NBA TV TX1	WORLD PGM
FILL TX-1	FILL TX-2	C-44 NBA REP	C-45 NBA POV	C-20	LOOPER CC
ATL-1	ATL-2	NBA RET	VF Return 1	VF Return 2	VF Return 3
ANNCE ISO	REP ISO	TABLE PGM	SW JUMBO	SW TNT PGM	SW TBS PGM

HORNET'S TIME 2:27:46PM

Eastern Time 2:27:46PM

HD VAChan 9

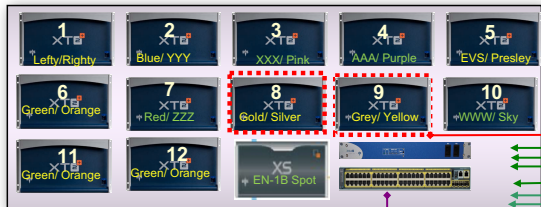
-20dBFS
Source
16:9
1080i59

www.pro-bel.com



TNT / NBAtv / NBA Entertainment / Over-Time / Dot.Com
EVS / Edit / Autobahn Network at CHARLOTTE

EN-1B-Unit TNT Friday / SUNDAY Game



EN-1C-Unit TNT Friday / SUNDAY Game



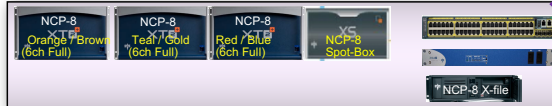
NCP-10B TNT / TBS Sound



SS-16 NBA Entertainment



NCP-8 TNT Studio



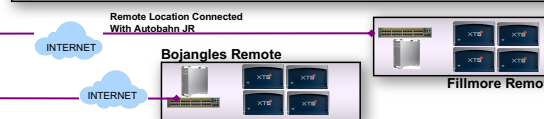
LYON 14 NBAtv Studio Production



ND-1A Specialty GFXs Edit



NCP-10A TNT SATURDAY NIGHT / TBS Sunday Game



NBAtv and Dot-Com EDIT (ND1D)



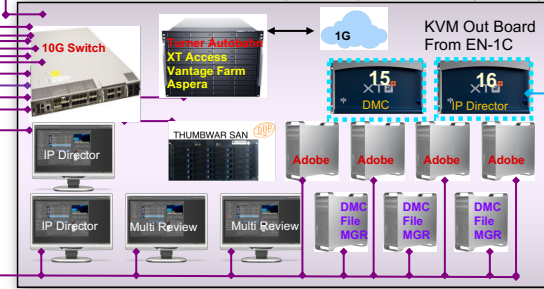
NCP-8B AUDIO Sweetening and AREA 21 Production



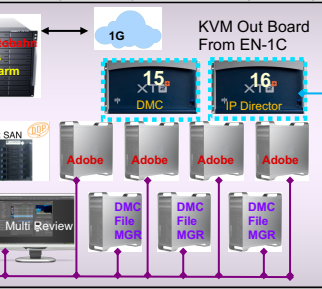
NBA Digital Office Trailer



TNT EDIT

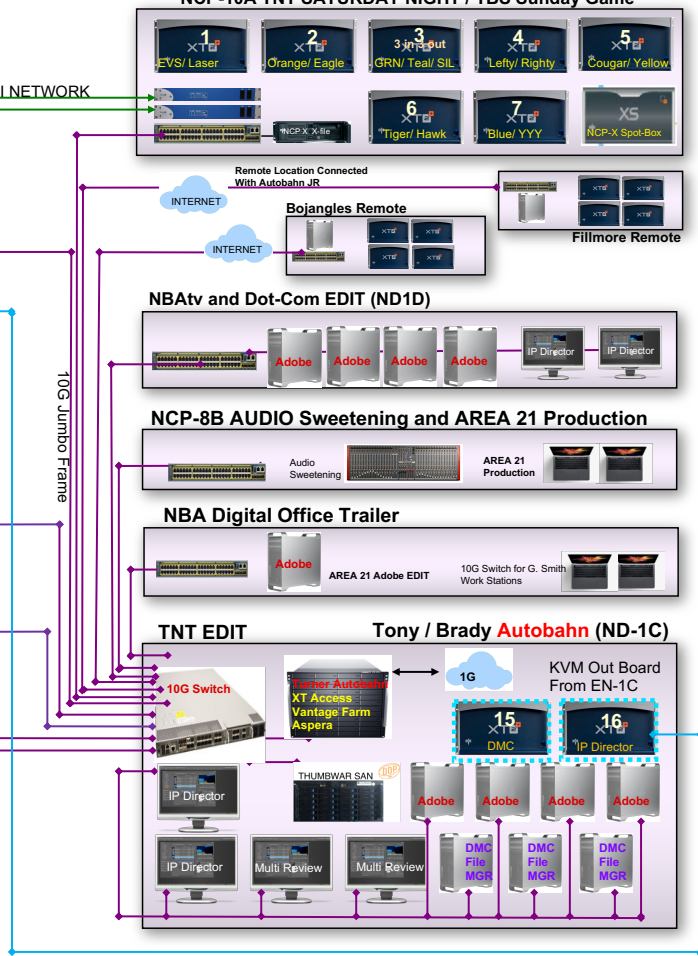


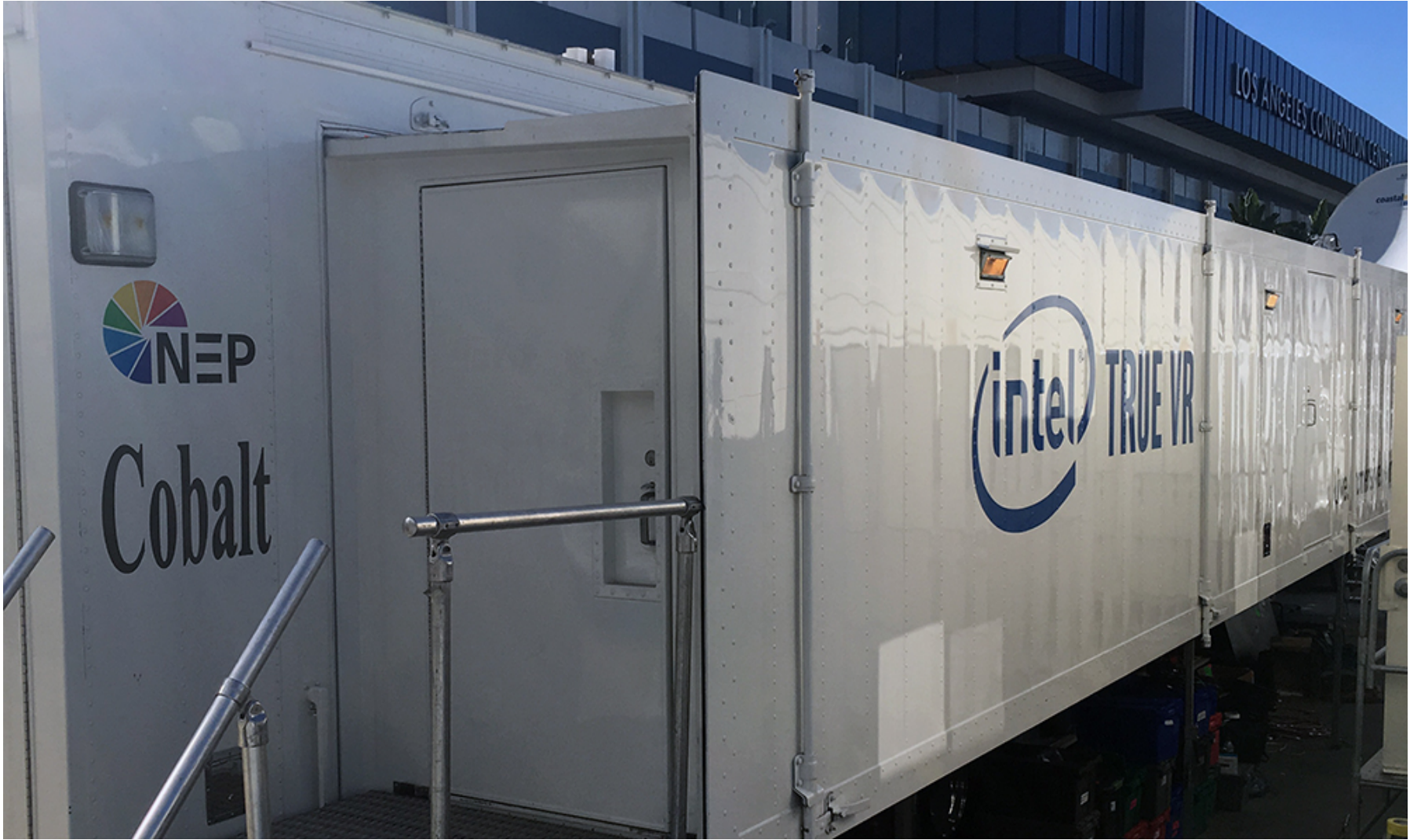
Tony / Brady Autobahn (ND-1C)



SDTI NETWORK

10G Jumbo Frame











Chris-Brown Turner Sports: Director Technical Operations
Tom Sahara Turner Sports: VP Operations and Technology
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