

Locomotive: Restoration project has been a lesson in endurance

Continued from Page 1C

Dopp learned quickly. "I really didn't understand how a steam engine actually worked — they are incredible," he said. "Most people are used to pushing a button and don't even know how their car works. All these giant machines are interconnected and with no electricity — and they're powered by fire."

Dopp has come to respect the old technology.

Niemann added: "A lot of people think that because we're in the year 2017, that we know so much more than those that built these (locomotives). In reality, we know less than what those guys knew."

Goals

While steam technology is the way of the past, Niemann



LEFT: Volunteer Jim Smith adjusts crown stays on the top of the boiler. RIGHT: John Niemann, president of the Astoria Railroad Preservation Association, adjusts a cutting head on the horizontal mill.



Photos by Thomas Kittel

and Smith are relieved that a passion for the steam locomotive is not restricted to the older generation.

"In the old days, we fixed everything. Now you just buy

a new motor. Fixing things is a dying art," Smith said. He quipped to Niemann: "It's dying with us, isn't it, John?"

The restoration project has been a lesson in endurance.

Various setbacks and challenges, such as funding issues, have repeatedly pushed back the finish line.

"My tongue-in-cheek answer is that June of 2025

would be a great time to unveil the train," Dopp said. "I'm not sure if that's even possible, but it's the 100-year anniversary of when the Baldwin No. 21 was built."

The locomotive — still a hunk of metal decades after she landed at the steam restoration shop — will look more like a real train once the wheels are underneath it. But this could be a long way off.

The crew meet every Saturday at the rusty workshop and continue to plug away whenever they have time. Still, the pace of the project can be frustrating, Niemann said.

"In the old days, they had 40,000 guys working on one of these. They were cranking out nine locomotives a week. The average delivery time was eight weeks," he said. "The No. 21 locomotive was a special order. Ordered in February and delivered in April."

Smith laughed: "My son was born at the time they towed this in, and he's grown up now."

THE DAILY ASTORIAN

LISTINGS

Evening listings
FRIDAY-SUNDAY

FRIDAY EVENING												AUGUST 11	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2	KATU	(2) KATU News at 6 (N)		Jeopardy!	Wheel of Fortune	Shark Tank		What Would You Do?		20/20		KATU News (N)	(35) Jimmy Kimmel
3	KOMO	(4) KOMO 4 News		Wheel of Fortune	Jeopardy!	Shark Tank		What Would You Do?		20/20		KOMO 4 News	(35) Jimmy Kimmel
4	KING	(5) NBC News (N)	KING 5 News	KING 5 News	Evening	America's Got Talent "Judge Cuts 4"	Seal joins the judge's panel.	Dateline NBC		Dateline NBC		KING 5 News	(35) Tonight Show
5	KOIN	(6) KOIN Local 6 (N)	Evening News (N)	Extra	Ent. Tonight	MacGyver "Pliers"	Hawaii Five-0	Blue Bloods "For the Community"		Blue Bloods "For the Community"		KOIN 6 News (N)	(35) Colbert
6	KIRO	(7) KIRO 7 News (N)	Evening News (N)	The Insider	Ent. Tonight	MacGyver "Pliers"	Hawaii Five-0	Blue Bloods "For the Community"		Blue Bloods "For the Community"		KIRO News (N)	(35) Colbert
7	KGW	(8) KGW News at 6:00 p.m. (N)	Live at 7 (N)	Inside Edition	America's Got Talent "Judge Cuts 4"	Seal joins the judge's panel.		Dateline NBC		Dateline NBC		KGW News (N)	(35) Tonight Show
8	KRCW	(3) Last Man Standing	Last Man Standing	Modern Family	Modern Family	Illusion (N)	Masters of Illusion	PennTeller "Does This Trick Ring a Bell?"		News at 10 (N)	Two and a Half	Two and a Half	Met Your Mother
9	KOPB	(10) Kurt Wolf Pt. 1 of 3	Business (N)	PBS NewsHour (N)	Brown "The Lepidopterist's Companion"	Great British Baking "Patisserie"	Great British Baking "The Final" (N)	Olmsted and America's Urban Parks		News (N)	2 Broke Girls	News (N)	2 Broke Girls
10	KPTV	(12) News (N)	Timbers in 30	Family Feud	Family Feud	MasterChef "The MasterChef Returns"	Beat Shazam "Episode Nine"	10 O'Clock News (N)		Family Guy	Family Guy	American Dad!	Cleveland Show
11	KPDX	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	FOX 12's News (N)	9 O'Clock News (N)	Q13 News at 10 (N)		Family Guy	Family Guy	American Dad!	Cleveland Show
12	KCPD	(13) Modern Family	Modern Family	Big Bang Theory	Big Bang Theory	MasterChef "The MasterChef Returns"	Beat Shazam "Episode Nine"	Q13 News at 10 (N)		Family Guy	Family Guy	American Dad!	Cleveland Show
13	TBS	(20) The Guest Book	Seinfeld	Seinfeld	Seinfeld	★ ★ ★ ★ ★ Get Hard (2015, Comedy) Kevin Hart,	Alison Brie, Will Ferrell.	Q13 News at 10 (N)		Q13 News at 10 (N)	Big Bang Theory	Big Bang Theory	Two and a Half
14	KZJO	(22) Last Man Standing	Last Man Standing	Friends Pt. 2 of 2	Friends	Modern Family	Modern Family	SportsCenter (N)		SportsCenter (N)	SportsCenter (N)	SportsCenter (N)	SportsCenter (N)
15	ESPN	(29) Baseball Little League World Series (L)						SportsCenter With Scott Van Pelt (N)		SportsCenter (N)		SportsCenter (N)	
16	ESPN2	(30) ESPN Films "Morningside 5"				ESPN Films "Baltimore Boys"		30 for 30 "This Was the XFL"		Jalen & Jacoby (N)		30 for 30 "Youngstown Boys"	
17	NICK	(31) The Loud House	The Loud House	Henry Danger	Henry Danger	The SpongeBob Movie: Sponge Out of Water	(15) Antonio Banderas.	Full House		Full House		Friends	Friends
18	DISN	(32) Jessie	Liv Maddie Cali	Andi Mack	Raven's Home	Raven's Home (N)	K.C. Underc. (N)	Bizaardvark (N)	Andi Mack	Stuck in Middle	Raven's Home	K.C. Undercorder	Bizaardvark
19	FAM	(34) ★ ★ ★ X-Men (2000, Sci-Fi) Famke Janssen, Patrick Stewart, Hugh Jackman.				★ ★ ★ X-Men (2000, Sci-Fi) Famke Janssen, Patrick Stewart, Hugh Jackman.							The 700 Club
20	FMC	(35) (5:00) The Purge	(45) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.	(40) ★ ★ ★ The Purge: Anarchy (14, Horror) Kiele Sanchez, Zach Gilford, Frank Grillo.
21	LIFE	(36) If I Stay (2014, Drama) Mireille Enos, Jamie Blackley, Chloë Grace Moretz.				★ ★ ★ The Sixth Sense (1999, Thriller) Haley Joel Osmert, Toni Collette, Bruce Willis.							So Sharr "Not His First Rodeo"
22	ROOT	(38) Mariners Access	MarinersPre-game	MLB Baseball Los Angeles Angels of Anaheim at Seattle Mariners Site: Safeco Field -- Seattle, Wash. (L)		MLB Whiparound (L)		Speak for Yourself		Post-game	MLB Baseball L.A. Angels vs Seattle		Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.
23	FS1	(39) UFC Classics "Legendary Brawls"	Main Event "Bisping vs. Henderson 2"			MLB Whiparound (L)		Speak for Yourself		Post-game	MLB Baseball L.A. Angels vs Seattle		Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.
24	SPIKE	(43) ★ ★ ★ Jurassic Park III (2001, Sci-Fi) William H. Macy, Téa Leoni, Sam Neill.				★ ★ ★ Jurassic Park (1993, Sci-Fi) Laura Dern, Jeff Goldblum, Sam Neill.							The Lost World: Jurassic Park
25	COM	(44) (15) Futurama	(50) Futur. "The Farnsworth Paradox"	(25) South Park		South Park	★ ★ ★ Wedding Crashers (2005, Comedy) Vince Vaughn, Rachel McAdams, Owen Wilson.						Jeff Dunham: Unhinged in Hollywood
26	HIST	(45) Ancient Aliens "Aliens and Stargates"	Ancient Aliens "The Replicants"			Ancient Aliens "Aliens and Monsters"							UFOfiles/UFOfiles (25) Ancient Aliens
27	A&E	(46) (5:00) Live PD				Live PD "Rewind"							UFOfiles/UFOfiles (25) Ancient Aliens
28	TL	(47) Say Yes-Dress	Say Yes-Dress	90 Day Fiancé "Lies and Goodbyes"	Chantel and Pedro reach their breaking point.	90 Day "Models, Moms and Meltdowns"	90 Day Fiancé "Bon Voyage!" (N)						90 Day Fiancé "Lies and Goodbyes"
29	DISC	(48) Bering Sea Gold "Murky Waters"	Bering Sea Gold "No Place Like Nome"	Bering Sea Gold "Gold Getters"		Bering Sea Gold "Big Cold Gold" (N)							Bering Sea Gold "Big Cold Gold"
30	NGEO	(49) The 400 Million Dollar Emerald	Billy the Kid: New Evidence A new authenticated photo of Billy the Kid may exist.			Hitler's Last Year							Hitler's Last Year
31	TNT	(50) Supernatural "Paper Moon"	Bones "The Man in the Morgue"			★ ★ ★ Batman Begins (2005, Action) Michael Caine, Liam Neeson, Christian Bale.							Claws "Tirana"
32	USA	(51) (5:00) ★ ★ ★ The Shawshank Redemption (1994) Morgan Freeman, Tim Robbins.				★ ★ ★ Clash of the Titans (2010, Action) Liam Neeson, Jason Flemyng, Sam Worthington.							★ ★ Pompeii (14, Adventure) Emily Browning, Kit Harington.
33	AMC	(52) Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family	Modern Family
34	FOOD	(53) Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins	Diners, Drive-Ins
35	HGTV	(54) Fixer "Traditional Goes Ultra Modern"	Fixer Upper "Retiring to the Country"			My Dream Home	My Dream Home	My Dream Home	My Dream Home	My Dream Home	My Dream Home	My Dream Home	My Dream Home
36	FX	(56) (5:00) Rise of the Planet of the Apes	★ ★ ★ ★ Captain America: The Winter Soldier (2014, Action) Scarlett Johansson, Sebastian Stan, Chris Evans.			★ ★ ★ ★ Captain America: The Winter Soldier (2014, Action) Scarlett Johansson, Sebastian Stan, Chris Evans.							★ ★ ★ ★ Captain America: The Winter Soldier Chris Evans.
37	CNN	(57) Anderson Cooper 360 (N)	CNN Tonight With Don Lemon (N)	The Nineties "Terrorism Hits Home"		The Nineties "New World Order"							Nineties: "Clint: The Comeback Kid"
38	FNC	(58) The Five	Hannity	Tucker Carlson Tonight		The Five							Tucker Carlson Tonight
39	CNBC	(61) Lives-Super Rich	Lives-Super Rich	Lives-Super Rich	Lives-Super Rich	Undercover Boss "Mayor of Pittsburgh"							Paid Program
40	BRVA	(63) (5:30) Housewives	★ ★ ★ School of Rock (2003, Comedy) Joan Cusack, Mike White, Jack Black.			★ ★ ★ Anger Management (03, Com) Jack Nicholson, Marisa Tomei, Adam Sandler.							Anger Management Adam Sandler.
41	TCM	(64) (5:00) Kitty Foyle (40) Ginger Rogers.	★ ★ ★ ★ Top Hat (35, Musical) Ginger Rogers, Edward Everett Horton, Fred Astaire.			★ ★ ★ Dreamboat (52, Comedy) Ginger Rogers, Clifton Webb.	(45) ★ ★ ★ Tight Spot (55) Edward Robinson, Ginger Rogers.						Empire of the Sharks (17) John Savage.
42	SYFY	(65) (5:00) Annabelle (2014, Horror) Alfre Woodard, Eric Ladin, Annabelle Wallis.				Killjoys "The Wolf You Feed" (N)							Wynonna Earp "I See A Darkness" (N)
43	RFD	(162) County Reporter	FarmHer	The Jimmy Dean Show		Cumberland High	Rural Eve. News	Country Reunion "Songwriters 101"		County Reporter	Virginia Dreams	Time Life Library	Time Life Library

SATURDAY EVENING												AUGUST 12	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2	KATU	(2) KATU News (N)	Paid Program	Jeopardy!	Wheel of Fortune	America's Funniest Home Videos		The \$100,000 Pyramid		In An Instant "Error in the Library"		KATU News (N)	(35) Honor/Wrestle
3	KOMO	(4) KOMO 4 News		Wheel of Fortune	Jeopardy!	America's Funniest Home Videos		The \$100,000 Pyramid		In An Instant "Error in the Library"		KOMO 4 News	(35) Honor/Wrestle
4	KING	(5) NBC News (N)	KING 5 News (N)	L.M. Traveler	Raw Travel	America's Got Talent "Road to the Finals!"		Dateline NBC		Dateline NBC		KING 5 News	Sat. Night Live
5	KOIN	(6) KOIN Local 6 (N)	Weekend News (N)	Entertainment Tonight Weekend	Entertainment Tonight Weekend	Doubt "Running Out of Time" (N)	Doubt "The Return" (SF) (N)	48 Hours		48 Hours		KOIN 6 News (N)	(35) Paid Program
6	KIRO	(7) Weekend News (N)	KIRO 7 News (N)	Entertainment Tonight Weekend	Entertainment Tonight Weekend	Doubt "Running Out of Time" (N)	Doubt "The Return" (SF) (N)	48 Hours		48 Hours		KIRO 6 News (N)	(35) Scandal
7	KGW	(8) NBC News (N)	Naturally, Danny	Champion (N)	Give	America's Got Talent "Road to the Finals!"		Dateline NBC		Dateline NBC		KGW News (N)	Sat. Night Live
8	KRCW	(3) The Middle	The Middle	Modern Family	Modern Family	Bones "The Proof in the Pudding"		News at 10 (N)	Person of Interest	News at 10 (N)	Person of Interest	Cura Te Ipsum	Person of Interest
9	KOPB	(10) Great British Baking "Patisserie"	Travel: Art Wolfe	Stevens' Europe		G. Trekker "Tough Trails: Bolivia" (N)		The Coroner "The Foxby Affair"		Doctor Blake "Golden Years"		The Blechley Circle	
10	KPTV	(12) (5:30) ★ ★ ★ Code of Silence (1985, Action)	Bert Ramsen, Chuck Norris, Henry Silva.			The F Word "Episode Five"		Love "Grits Me Baby One More Time!"		10 O'Clock News (N)		Grit "Cena Says/Who's Got Grit?"	
11	KPDX	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	Marvel's Agents of S.H.I.E.L.D.		The X-Files "Trust No. 1"		CSI: Miami "Stand Your Ground"		Wrestling Connection	
12	KCPD	(13) Modern Family	Modern Family	Big Bang Theory	Seahawks	The F Word "Episode Five"		Love "Grits Me Baby One More Time!"		Q13 News at 10	Seahawks	Grit "Cena Says/Who's Got Grit?"	
13	TBS	(20) Seinfeld Pt. 1 of 2	Seinfeld Pt. 2 of 2	Seinfeld Pt. 1 of 2	Seinfeld Pt. 2 of 2	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Full Frontal	Wrecked
14	KZJO	(22) Bones "The Proof in the Pudding"	The X-Files "Vienen"			The X-Files "Trust No. 1"		Q13 News at 9 (N)	Seahawks	Most Wanted	Name Game	Name Game	Anger Manage
15	ESPN	(29) Baseball Little League World Series (L)				SportsCenter (N)		SportsCenter (N)		SportsCenter (N)		SportsCenter (N)	
16	ESPN2	(30) (5:00) ATP Tennis Rogers Cup (L)		SportsCenter (N)		MLS Soccer New York City FC at Los Angeles Galaxy (L)		30 for 30 "The U" A story of football and racial tensions in 1980s Miami.		Full House	Full House	Friends	Friends
17	NICK	(31) Henry Danger	Henry Danger	Nicky "The Wonderful Wizard of Quads"		JoJoSiwa (N)	School of Rock (N)	Sizzling Summer Camp		Full House	Full House	Friends	Friends
18	DISN	(32) Andi Mack	Liv Maddie Cali	Jessie	Bunk'd	Alexander & the Terrible, Horrible, No Good, Very Bad...		Raven's Home		(55) K.C. Underc.	(25) K.C. Underc.	(55) Bizaardvark	(25) Bizaardvark
19	FAM	(34) (3:30) Harry Potter & the Half-Blood ...	(15) ★ ★ ★ Harry Potter and the Deathly Hallows: Part 1 (2010, Adventure) Emma Watson, Rupert Grint, Daniel Radcliffe.			★ ★ ★ Furious 7 (2015, Action) Paul Walker, Jason Statham, Vin Diesel.				(50) ★ ★ ★ Harry Potter and the Deathly Hallows: Part 2			★ ★ Birdman (14, Com/Dra) Emma Stone, Michael Keaton.
20	FMC	(35) (5:00) ★ ★ ★ Selma (14, Hist) Tom Wilkinson, David Oyelowo.	(40) ★ ★ ★ Birdman (2014, Comedy/Drama) Emma Stone, Naomi Watts, Michael Keaton.			Girlfriend Killer (2017, Thriller) Corin Nemec, Barbie Castro, Dina Meyer.		Boyfriend Killer (2016, Thriller) Barbie Castro, Kate Mansi, Patrick Muldoon.		(10) FXM Presents	★ ★ Birdman (14, Com/Dra) Emma Stone, Michael Keaton.		MarinersPre-game
21	LIFE	(36) Killer Crush (2015, Thriller) Rick Roberts, Sydney Penny, Daveigh Chase.				Girlfriend Killer (2017, Thriller) Corin Nemec, Barbie Castro, Dina Meyer.		Boyfriend Killer (2016, Thriller) Barbie Castro, Kate Mansi, Patrick Muldoon.		Post-game	MLS Soccer Sporting Kansas City at Seattle Sounders FC		MarinersPre-game
22	ROOT	(38) MLB Baseball Los Angeles Angels of Anaheim at Seattle Mariners Site: Safeco Field -- Seattle, Wash. (L)				Post-game		MLS Soccer Sporting Kansas City at Seattle Sounders FC		UFC Top Ten	UFC Unleashed "Cyborg vs. Lansberg"		TMZ Sports (N)
23	FS1	(39) (4:00) USGA Golf U.S. Women's Amateur	BIG3 Basketball Site: Rupp Arena -- Lexington, Ky.			TURN: Spies "Washington's Spies" (N)		Gone "Heroin Highway" (N)		★ ★ ★ 300 (2006, Epic) Lenny Headey, Dominic West, Gerard Butler.		★ ★ Joe Dirt (2001, Comedy) Dennis Miller, Brittany Daniel, David Spade.	
24	SPIKE	(43) Cops	Cops	Cops	Cops	TURN: Spies "Washington's Spies" (N)		Gone "Heroin Highway" (N)		★ ★ ★ 300 (2006, Epic) Lenny Headey, Dominic West, Gerard Butler.		★ ★ Joe Dirt (2001, Comedy) Dennis Miller, Brittany Daniel, David Spade.	
25	COM	(44) (5:00) ★ ★ ★ Wedding Crashers (05) Vince Vaughn, Owen Wilson.				Jeff Dunham: All Over the Map		Jeff Dunham: Unhinged in Hollywood		★ ★ ★ Joe Dirt (2001, Comedy) Dennis Miller, Brittany Daniel, David Spade.			
26	HIST	(45) Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars	Counting Cars
27	A&E	(46) (5:00) Live PD				Live PD "Rewind"							Counting "Mo' Parts Mo' Problems"
28	TL	(47) Say Yes-Dress	Say Yes-Dress	My Big Fat American Gypsy Wedding	Gypsy Wedd "Showdown at the Altar"	Gypsy Wedd "Wedded to Disaster"		My Big Fat American Gypsy Wedding		My Big Fat American Gypsy Wedding		My Big Fat American Gypsy Wedding	
29	DISC	(48) Dirty Jobs "Marble Maker"	Dirty Jobs "Animal Control Specialist"	Dirty Jobs "Maple Syrup Maker"		Dirty Jobs "Matters Recycler"		Unabomb "Fruit of the Poisonous Tree"		Unabomb "Fruit of the Poisonous Tree"		Dual Survival "Out of Africa"	
30	NGEO</												