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1	CONCURRENT	<b>RESOLUTION REGARDI</b>	NG IMPROVING AIR
2	QUALITY TH	IROUGH ENHANCED ZER	O EMISSION RAIL
3		2022 GENERAL SESSION	I
4		STATE OF UTAH	
5		Chief Sponsor: Melissa G. E	Ballard
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14	Clare Collard	Karen Kwan	Mark A. Wheatley
15	Jennifer Dailey-Provost	Rosemary T. Lesser	
16	Joel Ferry	Carol Spackman Moss	
17			

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#### 18 LONG TITLE

#### 19 General Description:

- 20 This concurrent resolution addresses improving air quality through encouraging rail
- 21 development and zero emission technology deployment.
- 22 Highlighted Provisions:
- 23 This resolution:
- ▶ addresses air quality and its impacts in the state;
- 25 ► describes solutions to reduce air pollution;
- 26 describes the rail transportation impact on air quality;
- 27 acknowledges the role of certain governmental agencies in the shift of freight traffic
- to rail;

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29	<ul> <li>highlights that technology solutions, including information and communications</li> </ul>		
30	technology and zero emission locomotives, can further reduce rail emission		
31	impacts;		
32	<ul> <li>addresses funding and innovative procurement solutions;</li> </ul>		
33	<ul> <li>encourages the phased replacement of existing locomotives used in railroad and</li> </ul>		
34	industrial plant switching services in nonattainment areas in the state with zero		
35	emission locomotives; and		
36	<ul> <li>encourages the transition of rail transportation in general to zero emission</li> </ul>		
37	locomotives.		
38	Special Clauses:		
39	None		
40			
41	Be it resolved by the Legislature of the state of Utah, the Governor concurring therein:		
42	WHEREAS, Utah continuously demonstrates the state's commitment to and interest in		
43	the state's air quality;		
44	WHEREAS, good air quality is a vital component of the economy and human health in		
45	Utah and research conducted by Utah universities shows the harmful impacts of air pollution		
46	on human health, with the greatest negative impact on the health of children, the elderly, and		
47	those with compromised immune systems;		
48	WHEREAS, for example, exposure to direct small particulate matter exacerbates		
49	asthma, increases the risk of cancer, and leads to acute respiratory symptoms, bronchitis,		
50	chronic obstructive pulmonary disease, heart attacks, nervous system effects, lost work days,		
51	and premature death;		
52	WHEREAS, there is now a broad range of technologically and economically viable		
53	solutions to significantly reduce air pollution and ensure that future economic and population		
54	growth does not compromise air quality;		
55	WHEREAS, embracing zero emission technologies will help grow our state's robust		
56	clean technology sector;		

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57	WHEREAS, as of 2017, railroad transportation contributed 9.2% of NOx and 1.4% of		
58	the PM2.5 along the Wasatch Front;		
59	WHEREAS, as of 2017, the Division of Air Quality found that locomotives used for		
60	short line, industrial plant, and switch engine operations contributed 3.4% of NOx and 0.16%		
61	of PM2.5 of the total Wasatch Front inventory of emissions, equivalent to approximately 1,828		
62	tons of NOx and 19 tons of PM2.5;		
63	WHEREAS, in addition to significant numbers of heavy haul freight locomotives		
64	operating in and through the state, as of 2017 there were approximately 63 short line		
65	locomotives, industrial plant locomotives, or switch engines operating in Utah;		
66	WHEREAS, the majority of the short line locomotives, industrial plant locomotives,		
67	and switch engines operating in Utah are legacy platforms certified to the United States		
68	Environmental Protection Agency as meeting Tier 0 or Tier 0+ emission standards, and almost		
69	all emissions from these locomotives occur within two of Utah's PM2.5 nonattainment areas		
70	based on the United States National Ambient Air Quality Standards;		
71	WHEREAS, under the federal Clean Air Act, an area where air pollution levels		
72	persistently exceed a National Ambient Air Quality Standard may be designated as a		
73	"nonattainment" area by the United States Environmental Protection Agency;		
74	WHEREAS, designation as a nonattainment area requires the development of a State		
75	Implementation Plan with increasing mandatory requirements if the area does not return to		
76	attainment within prescribed timelines, and may result in the imposition of a Federal		
77	Implementation Plan and sanctions that could impact the availability and use of federal		
78	highway funds;		
79	WHEREAS, the Utah Department of Transportation, other agencies of the state, and the		
80	Utah Inland Port Authority, a political subdivision of the state, can play a vital role in		
81	accelerating the modal shift of freight traffic to rail, helping to meet health and air quality		
82	goals;		
83	WHEREAS, the Utah Inland Port Authority anticipates assisting in the reduction of		
84	trucks from the road and the modal shift to rail, while using the regulatory sandbox to test new		

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85 freight movement and cargo handling equipment at the inland port to increase use of zero
86 emission vehicles;

WHEREAS, to complement accelerating this modal shift to rail, a broad spectrum of
technologies, including information and communications technologies that enable more
efficient rail operation reducing fuel use and emissions, and entirely new locomotive power
technologies such as hydrogen fuel cell-electric and battery-electric, must be encouraged and
supported to further decrease total freight section emissions, including freight rail emissions;

WHEREAS, funding support and innovative procurement solutions made available
through the Utah Department of Transportation and the Utah Inland Port Authority can assist
private sector operators of short line locomotives, industrial plant locomotives, and switch
engines with transitioning to zero emission technologies, including for freight rail, that can
materially increase the state's air quality; and

97 WHEREAS, substantial federal funding is expected to be available to support this transition, and the Utah Department of Transportation and the Utah Inland Port Authority 98 99 should maximize their efforts to secure the federal funding to facilitate deployment of zero 100 emission technologies, including freight rail, that can materially increase the state's air quality: 101 NOW, THEREFORE, BE IT RESOLVED that the Legislature of the state of Utah, the 102 Governor concurring therein, encourages the introduction of new zero emission locomotives 103 operated by short line locomotives, industrial plant locomotives, and switch engines in 104 nonattainment areas, a continued shift of freight transportation growth to rail to help meet the 105 state's air quality goals, phasing out legacy locomotive engines in short line, industrial plant, 106 and switch engine rail service in nonattainment areas in the state, and phasing in the use of zero 107 emission engines to 100% use by short line locomotives, industrial plant locomotives, and 108 switch engines by 2050.

BE IT FURTHER RESOLVED that the Legislature and the Governor encourage, in addition to short line locomotives, industrial plant locomotives, and switch engines all rail transition to zero emission technologies, including commuter rail, passenger rail, and long haul freight rail.

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