

## Sen. Dan Kotowski

16

## Filed: 3/20/2015

	09900SB0451sam001	LRB099	03206 MGM 31402 a
1	AMENDMENT	TO SENATE BILL 451	
2	AMENDMENT NO	Amend Senate Bill	451 by replacing
3	everything after the enact	ng clause with the	following:
4	"Section 5. The Hydra	_	egulatory Act is
5	amended by adding Section 1	-99.5 as follows:	
6	(225 ILCS 732/1-99.5 ne	w)	
7	Sec. 1-99.5. The	Illinois Active	Earthquake Zone
8	Investigative Task Force.		
9	(a) The Department sh	all, on the effect	ive date of this
10	amendatory Act of the 9	9th General Assemb	oly, suspend the
11	acceptance or approval of	any and all new or	modified permits
12	for high volume horizonta	l fracturing wells	and operations,
13	horizontal drilled wells w	ith fracturing oper	ations, and Class
14	II injection wells that are	e located within any	and all counties
15	that wholly or partially	contain any part o	f the New Madrid

seismic zone, the Wabash Valley seismic zone, Cottage Grove

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

fault system, Rough Creek-Shawneetown fault system, the magmatic system of Hicks Dome, the Illinois-Kentucky Fluorspar District, or the NNW-trending La Salle, Du Quoin, and Clay City fold systems. The Department shall also suspend any approval of waste management plans for high volume horizontal fracturing wells and operations, horizontal drilled wells with fracturing operations, for disposal of oil, liquid natural gas, or natural gas waste in existing Class II injection wells if they are located within any and all counties that wholly or partially contain any part of the New Madrid seismic zone, the Wabash Valley seismic zone, Cottage Grove fault system, Rough Creek-Shawneetown fault system, the magmatic system of Hicks Dome, the Illinois-Kentucky Fluorspar District, or the NNW-trending La Salle, Du Quoin, and Clay City fold systems. (b) The Department shall work with the Illinois State Geological Survey to perform probability mapping of all active seismic zones in this State listed in subsection (a). Using existing data and resources at the Illinois State Geological Survey and the United States Geological Survey, along with data on faults in brittle rock, the Illinois State Geological Survey shall outline, for each county, the areas of the active faults listed in subsection (a) that carry a high, medium, and low probability of seismicity from oil, liquid natural gas, and gas

(c) The Illinois Active Earthquake Zone Investigative Task

Force is hereby created. The Task Force shall have the

waste disposal in Class II injection wells.

26

1	following members:
2	(1) the Director, or his or her representative, from
3	each of the following State agencies: the Illinois
4	Emergency Management Agency, the Department of Natural
5	Resources, the Department of Public Health, the Illinois
6	State Water Survey, the Illinois Pollution Control Board,
7	the Illinois Environmental Protection Agency, the Illinois
8	State Geological Survey, and the Department of Insurance;
9	(2) one independent expert in risk assessment in
10	earthquake zones and its impact on insurance rates and
11	ratings appointed by the Director of Insurance;
12	(3) one university-based independent seismologist with
13	expertise in induced seismicity appointed by the Director
14	of the Illinois State Geological Survey; and
15	(4) one member from the Illinois Attorney General's
16	office appointed by the Attorney General.
17	(d) The chairperson of the Illinois Active Earthquake Zone
18	Investigative Task Force shall be the Director of the Illinois
19	Emergency Management Agency, or his or her representative. The
20	members shall be appointed no later than 60 days after the
21	effective date of this amendatory Act of the 99th General
22	Assembly.
23	The Illinois Active Earthquake Zone Investigative Task
24	Force shall:
25	(1) Meet once a month, either in person or through

video conferencing capabilities, beginning no later than

Τ	90 days after the effective date of this amendatory Act of
2	the 99th General Assembly.
3	(2) Operate without pay, but with all expenses paid for
4	the functioning of the Task Force to be allocated by the
5	Illinois Emergency Management Agency.
6	(3) Investigate any and all adverse effects, or risks,
7	of induced seismicity by the disposal of oil, liquid
8	natural gas, and natural gas waste in Class II injection
9	wells in active earthquake zones. And in particular, if the
10	Class II injection wells are located within any and all
11	counties that wholly or partially contain any part of the
12	New Madrid seismic zone, the Wabash Valley seismic zone,
13	Cottage Grove fault system, Rough Creek-Shawneetown fault
14	system, the magmatic system of Hicks Dome, the
15	Illinois-Kentucky Fluorspar District, or the NNW-trending
16	La Salle, Du Quoin, and Clay City fold systems.
17	(4) Examine the probability of induced seismicity in
18	Illinois active seismic zones and any and all adverse
19	effects or risks of possible induced seismicity on:
20	(A) water resources, water wells, aquifers, dams,
21	canals, any possible contamination, and the
22	environment, including possible soil and air
23	<pre>contamination;</pre>
24	(B) public health effects, including mental health
25	adverse effects of repeated induced seismic events;
26	(C) adverse effects on property, including

1	livestock and domesticated animals;
2	(D) adverse effects on tourism and recreational
3	activities in the active seismic zones of this State;
4	(E) risk management issues, including emergency
5	management plans;
6	(F) risk management issues, including liability
7	issues, bonding issues, and insurance requirements for
8	operators, well owners, land owners, mineral rights
9	owners, lessors, and subcontractors and the effects on
10	insurance rates and ratings, mortgages, small
11	businesses and their insurance and mortgage rates and
12	availability;
13	(G) effects on the mechanical integrity of the oil,
14	liquid natural gas, and natural gas wells, Class II
15	injection wells, and the oil, liquid natural gas, and
16	natural gas industry critical infrastructure,
17	including pipelines, and any possible contamination
18	from a breach of mechanical integrity of these
19	structures;
20	(H) effects of potential spillage, leakage, fires,
21	or blowouts of the oil, liquid natural gas and natural
22	gas wells, fracturing waste and waste water
23	containment structures including open pits, oil,
24	liquid natural gas and natural gas processing
25	infrastructure, and transportation infrastructure,
26	including pipelines, secondary to possible induced

seismicity;

1

2	(I) effects of potential spillage, leakage, fires,
3	or blowouts of chemicals, proppants, and byproducts,
4	and their containment, processing, and transportation
5	infrastructure, secondary to possible induced
6	seismicity;
7	(J) the safety of any nuclear power plants, uranium
8	processing plants, or low level radioactive waste
9	storage sites in this State and the surrounding states
10	that might be impacted by induced seismicity triggered
11	within the active seismic zones in this State;
12	(K) the risks of inducing a major earthquake,
13	greater than magnitude 6, either immediately or in the
14	future, on all of the issues delineated in this
15	Section, and the risk management issues involved with a
16	higher level of induced seismicity; and
17	(L) whether the Green Light, Yellow Light, Rec
18	Light system of mitigation of induced seismicity,
19	proposed by the Illinois State Geological Survey and
20	the Department of Natural Resources, is appropriate or
21	sufficient for real mitigation of all adverse effects
22	of induced seismicity in the active seismic zones in
23	this State.
24	(e) The Illinois Active Earthquake Zone Investigative Task
25	Force shall investigate the issues under subsection (d) and
26	write a report to be submitted to the General Assembly, the

1	Governor, the Hydraulic Fracturing Task Force, the Illinois
2	Emergency Management Agency, the Department of Natural
3	Resources, the Department of Public Health, the Illinois State
4	Water Survey, the Illinois Pollution Control Board, the
5	Illinois Environmental Protection Agency, the Illinois State
6	Geological Survey, the Department of Insurance, the Illinois
7	Attorney General, and to the public via the website of the
8	Illinois Emergency Management Agency and the website of the
9	Department of Natural Resources. The report shall be as
10	complete as possible when discussing the risks and the possible
11	mitigation of the risks of induced seismicity shall include
12	recommendations and conclusions about naturally occurring
13	seismic events in the active seismic zones listed in subsection
14	(a), including:
15	(1) the risks of drilling and extracting oil, liquid
16	natural gas, and natural gas in active seismic zones;
17	(2) the risks of drilling and operating Class II
18	injection wells in active seismic zones;
19	(3) the use of fracturing waste or wastewater open pits
20	in active seismic zones;
21	(4) earthquake induced contamination of air, water,
22	and soil from oil and natural gas extraction operations and
23	waste disposal, the clean up and public health effects of
24	the contamination;
25	(5) emergency management recommendations during
26	earthquakes involving areas of oil and natural gas

1	operations and infrastructure;
2	(6) earthquake induced spillage and leakage from oil
3	and natural gas wells;
4	(7) oil and natural gas infrastructure instability
5	during earthquakes;
6	(8) bonding requirements for oil and natural gas
7	operations and infrastructure in active seismic zones;
8	(9) insurance requirements for oil and natural gas
9	operations and infrastructure in active seismic zones;
10	(10) best practices for the oil and natural gas
11	industry in active seismic zones; and
12	(11) any and all emergency management, transportation,
13	and communication recommendations related to the oil and
14	natural gas industry and its operations before, during, and
15	after an earthquake.
16	(f) The report shall include recommendations to the General
17	Assembly and Governor for legislation to protect the public
18	health and environment, property, livelihoods, and communities
19	from all reported adverse affects of induced seismicity in the
20	Illinois active seismic zones, including recommendations to
21	the General Assembly about legislation to limit damages, harms,
22	risks, contamination, and legal challenges over liability
23	secondary to naturally concurring seismic events in the active
24	seismic zones and how to mitigate the risks from blowouts,
25	spillage, leakage, and damages to the mechanical integrity of
26	oil, liquid natural gas, and natural gas wells, drilling, Class

- 1 II injection wells, waste and waste water containment,
- pipelines, infrastructure, chemicals, proppants, and 2
- 3 byproducts. This report shall also include any and all
- 4 emergency management, transportation, and communication
- 5 recommendations related to the oil and natural gas industry and
- its operations before, during, and after induced seismicity and 6
- naturally occurring seismic events. 7
- (g) The Illinois Active Earthquake Zone Investigative Task 8
- 9 Force shall submit its report on or before January 1, 2018. The
- 10 Task Force shall be dissolved on July 1, 2018.
- 11 Section 99. Effective date. This Act takes effect upon
- 12 becoming law.".