

## ***Interactive comment on “An integrated approach for the evaluation of technological hazard impacts on air quality: the case of the Val d’Agri oil/gas plant” by M. Calvello et al.***

**Anonymous Referee #1**

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This manuscript describes a significant environmental hazard associated with the operation of the an oil/gas plant. It is written in a concise and comprehensive manner and is suitable for publication in the Journal of Natural Hazards and Earth System Sciences, after the following corrections are performed:

Page 2346 - Introduction - Line 25 "anthropized" - it is not clear what the authors mean here, please re-phrase

Page 2347-2348 "at our knowledge" - please re-phrase to "To the best of our knowledge"

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Page 2348 - line 3 "...also if it is compared for example with..." please replace this with "comparable to"

Page 2348 - line 5 "observing" Perhaps "monitoring" would be a more suitable word to describe the process

Page 2348 - line 28 it is not clear as to why integration of routine air quality/additional experimental measurements are required. Is it because not enough air quality parameters are usually monitored in the 5 network locations mentioned later or of the big time lag between measurements and results ? Or both ?

Page 2349 - line 12 Please delete "and"

Page 2349 - lines 21-23 Please add coordinates for each of the 5 monitoring stations

Page 2350 - line 1 and line 10 Please explain "near real time" measurements In line 10 you mention "...a time lag of several months due to the instrumentation" Near-real time measurements of air pollutants does not comply with a time lag of several months. Please add an explanation or re-phrase.

Page 2351 - line 22 Please replace "Poor" with "Low"

Page 2351 - line 23 Please replace "situation" with "pattern"

Page 2353 - line 27 Please replace "structure" with "pattern"

Page 2355 Again, it is not clear why set-up additional monitoring. More air quality parameters are needed to determine the environmental impact of the oil/gas plant or is the time lag between measurements and results so large that renders the existing monitoring network inefficient ?

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