New Zealand Greenhouse Gas Inventory Approval for change to emission factor, parameter or methodology

Reviewer	Keith Smith
Date of review	29 March 2010

Inventory sector ¹	Agriculture
Name of EF, variable or category	FracgaseFNui, where Nui refers to N modified by
	the addition of the urease inhibitor nBTPT
Current value of emission factor,	0.1
variable or methodology Tier	
Suggested value of emission factor,	0.06
variable or methodology Tier	
Use from year (start year)	Not specified
Recommend that a change to the	Yes/no (comments)
new value or methodology is	Yes, approval recommended, in view of the
approved	clear experimental evidence.

Please comment on whether the supporting review or report sufficiently covers the following topics and provides adequate justification for a change.

Yes/no Comment Is the need for a change Yes Evidence for NZ published studies and well documented? from overseas studies presented. Look convincing. Yes Is the proposed change scientifically defensible? Has any documentation 4 recent peer-reviewed NZ papers, and Yes been peer-reviewed or several overseas ones cited in detail. published? Is the proposed Yes methodology, EF or variable consistent with IPCC GPG? Is any new EF, variable or No? I am not aware of any comparable evaluation of FracGASF for UI-modified methodology comparable with any other countries? N fertiliser Is the level of uncertainty Should be possible to calculate from the No data in Table 1 of the desk-top study by reported? Saggar et al 2009. The report cites the IPCC default factor Is there a comparison with Yes IPCC default emission of 0.10, currently used. factors, variables or Tier 1 methodology

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¹ Energy, Industrial Processes, Solvents, Agriculture, LUCF, Waste