Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1.	Registration Number: 74-R-0108			
2.	Number	22 Cat E	of animals used in this study.	
3.	Species	(common name) Swine	of animals used in this study.	
4.	Explain the	he procedure producing pain and/or distress.		
		Pigs are challenged with the allergen to assess whether they have the allergic reaction or not, and if they do, then what is the extent of this allergic reaction. The allergic reaction is monitored using a previously published scale: 0 = no signs; 1 = immobility, lethargy, malaise, 2 = scratching, rash, coughing, gagging, stomach contractions; 3 = diarrhea, emesis; 4 = increase in respiratory rate, neck extension; 5 = forced expiration; 6 = confluent cutaneous reddening, cyanosis, anaphylaxis (<i>Rupa et al., Vet Immunol Immunopathol. 2008 Oct 15;125(3-4):303-14. doi: 10.1016/j.vetimm.2008.05.028.</i>).		
	= diarrho			
	animals	broad spectrum of allergic response can be expected, and these are expected to cause distress in the nimals. If pigs show a reaction at scale 6, they would be administered epinephrine, with repeat doses every 15 in if required. To date we have only observed response at scales 0-3.		
 Provide scientific justification why pain and/or distress could not be relieved. State methods or mea determine that pain and/or distress relief would interfere with test results. (For Federally mandated Item 6 below.) 				
	determing is required statistical animals anaphyl	ne treatment efficacy of microneedles coated we red that we challenge the animals to simulate hid to evaluate treatment efficacy so that reductionally analyzed. Thus, intervention to reduce distrare monitored continuously for 2 hours after all	peanut allergy, and subsequently to use the model to ith the peanut allergen. As such, to develop the model it uman exposure to peanuts. Allergen challenge is also in allergy-score after treatment can be documented and less from allergic reaction cannot be performed. However, ergen challenge, and in the case of highest-scale allergic epinephrine after a period of 5 min. If we intervene ent is effective or not.	
	Animals 6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):			

CFR