## NATIONALLY AGREED STANDARD OPERATING PROCEDURE (NASOP)

Title: Control of Foot and Mouth Disease vaccine at a Designated Vaccine

Centre

Version: 1.0

Prepared by: Subcommittee on Emergency Animal Diseases

Approved by: Animal Health Committee

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NASOPs support national consistency and provide guidance to response personnel undertaking operational tasks.

#### 1. Purpose

 To provide jurisdictional operations centres and Vaccination Managers with information on the control of foot and mouth disease (FMD) vaccine at a Designated Vaccine Centre (DVC).

#### 2. Application/scope

- This NASOP describes the procedures to be followed for the control of FMD vaccine at a DVC in a state or territory when emergency vaccination of livestock is to be carried out as part of a control program for FMD.
- NASOP 24: Ordering of Foot and Mouth Disease vaccine and distribution to states and territories describes the national processes for the ordering, delivery and control of FMD vaccine to the DVC.
- Vaccination will be carried out according to NASOP 17: Vaccinating livestock on a property for Foot and Mouth Disease
- This NASOP is written for an inactivated, non-genetically modified, oil-adjuvant vaccine as contained in Australia's FMD vaccine bank.

#### 3. Resources/equipment

- DVC resources include:
  - a building located either within the Restricted Area (RA) or close to it, and approved by the Chief Veterinary Officer (CVO) or delegate
  - serves as the local storage and distribution point for all vaccines, cold chain apparatus, vaccine applicators, syringes, needles and related equipment
  - must have a security system to prevent unauthorised access
  - must have a reliable refrigeration system with appropriate alarms and backup power to maintain the temperature at +2°C to +8°C.
  - must have the capacity to provide sufficient ice-packs to be used for maintaining the cold chain in the field
  - must be equipped with sterilising apparatus (either a steam steriliser or facilities for boiling vaccination equipment in clean water for a minimum of 15 minutes. No chemical sterilisation is to be used for vaccinating equipment).
- To prevent cross contamination with the clean areas of the DVC, a separate area must be established to manage potentially contaminated materials including personal protective equipment (PPE) and vaccination wastes.
- The DVC must provide the following facilities for vaccination teams:
  - clean area for collection of vaccine and equipment

- dirty area for return of wastes, contaminated material and waste vaccine
- waste disposal system
- clean area for return of all cold chain intact vaccine and equipment/supplies that have not been on a premises
- appropriate area for completion, reconciliation and photocopying of all documentation including vaccine inventories, downloading electronic records of National Livestock Identification System (NLIS) identification codes and submission of these records
- area for cleaning vehicles
- entry and exit policy for DVC.
- Auditable inventory (amounts, batch numbers) system for use at each stage of vaccine distribution, storage, use and waste.
- Register system for issuing and receiving other supplies e.g. vaccine applicators, syringes, needles, cool-boxes, ice packs and PPE.
- AUSVETPLAN disease strategy for FMD manual and relevant NASOPs and work instructions.
- Vaccination plan that includes delegation authorities for the distribution of vaccine.

#### 4. Warnings

- FMD vaccine must be used in accordance with the vaccination plan.
- FMD vaccine contains an oil emulsion adjuvant and should be used with great care.
- Maintain a cold chain at all stages of vaccine storage and transport. Data loggers should be used to monitor temperatures during transport and storage.
- Opening of cool-boxes should be minimised to keep temperatures in the range of +2°C to +8°C, without freezing, and to reduce vaccine vial exposure to light.
- If a vaccination team is suspected of being exposed to infectious field FMD virus (for example, through contact with infected animals) they will be withdrawn from the vaccination program for a designated period of time.
- The Australian Pesticides and Veterinary Medicines Authority (APVMA) requires that
  the vaccine may be released only on the authority of the CVO in each state or
  territory, and used only by authorised personnel acting under their direction or
  persons otherwise authorised under state/territory legislation. The product must be
  used in accordance with the label instructions and Standard Operating Procedures as
  may be specified by the Consultative Committee on Emergency Animal Diseases.
- Do not clear sessions on NLIS readers until the files have been saved, re-opened and checked complete and uncorrupted.
- Handling animals and some vaccines have Occupational Health and Safety (OHS) issues—arrangements need to be made for emergency medical treatment in case of injury.
- The operations centre should make arrangements with local medical facilities to prepare for treatment of accidental human vaccination.
- The contaminated area of the DVC must be treated as an infected place and requires the use of PPE and entry and exit decontamination protocols.

#### 5. Description of activities

- Receive vaccine.
- Maintain accurate inventory control and documentation at all stages (see Appendix A
  Designated Vaccine Centre FMD Vaccine Inventory, and Appendix B FMD
  vaccination stock take Form (Electronic Balance Calculator)).
- Register DVC as a Property Identification Code (PIC) and have a number of orange post-breeder cattle NLIS 'emergency' tags issued to this PIC.
  - Download NLIS tag data from NLIS readers returning from field but do not clear sessions until the files have been saved, re-opened and checked complete and uncorrupted.
- Transfer NLIS codes of 'emergency' tags from DVC PIC to PIC on which they were applied.
- Ensure that the NLIS codes of all vaccinated cattle are registered against the PIC on which they were vaccinated.
- Ensure vaccinated cattle are flagged as FMD vaccinated on the NLIS database.
- Maintain appropriate storage of vaccine.
- Prepare a detailed vaccination plan, identify premises where vaccination is to be carried out, and determine the appropriate resources required.
- Determine the number of doses of vaccine required for each property where animals are to be vaccinated.
- For small numbers of animals, the appropriate number of doses of vaccine can be drawn up in a 50 ml plastic repeater injector for transfer onto the premises. An open bottle on the property must be disposed according to NASOP 17 Vaccinating livestock on a property for Foot and Mouth Disease.
- Establish and manage an appropriate number of field teams.
- Ensure that all personnel who handle vaccine have appropriate legislative authorisations to possess and administer FMD vaccine.
- Ensure that all personnel who handle or administer vaccine have had appropriate
  induction and training with special reference to the safety aspects of handling an oil
  emulsion vaccine, other OHS aspects, use of NLIS readers etc., and keep records of
  such induction and training.
- Issue all vaccine and equipment to field teams.
- Receive from returning field teams, and document, all unused vaccine, spoilt vaccine, used equipment, unused equipment/supplies and wastes in a biosecure manner.
- Clean and sterilise vaccination equipment that is to be reused.
- Store waste vaccine separately at the DVC and dispose of in accordance with the vaccination plan.
- Animal Health Australia (AHA) will arrange for the return of unused vaccine (see Appendix C for FMD vaccine return – cold chain intact form).
- AHA can also arrange through the return and destruction of unused vaccine where
  the cold chain has not been maintained (see Appendix D for FMD vaccine return –
  cold chain not maintained form). The Vaccination Manager can authorise and sign off
  on alternative means of destruction of such vaccine, as long as barcodes, batch
  numbers and estimated doses are appropriately accounted for.
- The operations centre should ensure that all vaccinated cattle are eventually handled in accordance with the State Coordination Centre policy and this may include vaccination for destruction or vaccination to live, the animals status must be recorded on the NLIS database or equivalent.

#### 6. References

- AUSVETPLAN Disease Strategy Foot-and-Mouth Disease
  - AUSVETPLAN manuals are available at: www.animalhealthaustralia.com.au
- NASOP 17: Management of Foot and Mouth Disease vaccination on a property
- NASOP 24: Ordering Foot and Mouth Disease vaccine and distribution to states and territories
- Operational Procedures Guidelines. Vaccination for Contagious Disease. (Draft).
   National Animal Health Emergency Management System Guidelines U.S.
   Department of Agriculture, 2003

#### 7. Appendices

- Appendix A: Designated Vaccine Centre vaccine inventory
- Appendix B: FMD vaccination stock take form (electronic balance calculator; doubleclicking on the spreadsheet will bring up the daily data sheet work sheets for editing in Microsoft Excel)
- Appendix C: FMD Outbreak Request to AHA for authorisation to retun unused vaccine
- Appendix D: FMD Outbreak Request to AHA for Authorisation to return spoilt vaccine

### Appendix A

	Designated Vaccine Centre FMD Vaccine Inventory																				
	DVC nam	e:																			
Date	Event eg 'Vacc. PIC ABCD1234'	Doses* (CED) of Vaccine received ex AHA	No of bottles		AH bottle Barcodes	CED dispensed	CED in unopened bottles	CED in opened bottles	CED injected	CED wasted in field	Vaccine Balance (CED)	Temp 2-8°C	Team code	No. Ret. Empty bottles	Open bottle bar codes	No. cattle vacc.	sheep	No. other spp. vacc.	Store type (e.g. esky)	Checked in by (DVC officer name)	
	Brought for	ward balai	nce (if an	у)																	
*Note: a	II doses in C	attle Equi	valent D	oses (CED	) of 2ml pe	r cattle dos	e.														

# FMD VACCINATION STOCK TAKE FORM (ELECTRONIC BALANCE CALCULATOR)

Weekly summary									
Date:									
This is a summary	page: Do no	t add stock	on this pag	e except	carry over	on first line!			
Report vaccine in									
Name	6	<b>+</b>		Doses in					
Number carried ov	er from	Total		Open					
previous week:		doses:		Bottles:					
Number received i	nto DVC:		0						
Stock throughput:			0						
		CED in	CED in	Total					
	Vaccination	Unopened	Opened	Doses					
	Team	Bottles	Bottles	Issued					
Number <u>issued</u> to:	1	0	0	0					
	2	0	0	0					
	3	0	0	0					
<u> </u>	4	0	0	0					
<u> </u>		O CED in	CED in	O Total					
	Vaccination			Total Doses					
	Team	Unopened Bottles	Opened Bottles	Returned					
lumber <u>returned</u> to	1	0	0	0					
VC:	2	0	0	0					
	3	0	0	0					
	4	0	0	0					
otal		0	0	0					
			CED						
	Vaccination	CED injected	wasted in	Total					
	Team	into animals	field	Used					
Number <u>used:</u>	1	0	0	0					
	2	0	0	0					
	3	0	0	0					
	4	0	0	0					
Total	1	0	0	0 Dotumo	d to otoro				
	Issued	Used	Discarded	Whole	d to store Opened	Difference			
Summary	issueu	USEU	Discalucu	Bottles	Bottles	Dillerence			
	0	0	0	0	0	0			
				Doses					
Amount of stock in		to carry	0	in Open	0				
over to next week:				Bottles:					
				Dotties.					

Place identifi	your DPI logo here cation	for easy	CONTROL CENTRE: ADDRESS: PHONE: FAX:
		FACSIMIL	E MESSAGE
To:	[AHA officer]	FAX No. 02 6232 5511	Location: Animal Health Australia
From			Date:

		ak [ <i>month/ year</i> ]	
	AHA for authoris	sation to Return Unu	sed Vaccine
Request No.			File
1.Person making reques	st		
Name		Contact no.	
Location		Signature:	
2. Request details			
volumes of vaccine, from vaccination centre. Pleas form has been faxed thro	vaccination centres <u>cold-centres</u> e contact [AHA officer] (02 ugh to Animal Health Aust		egory has NOT left the arrangements, once this
Bar Code (or bar code range)	Batch No.	Barcode (or bar code range)	Batch No.
Pick up at:	Contact person:	Opening hours for pick up:	Approximate pick up date:
	Phone:		

3. AHA USE ONLY		
Acknowledged		Date
[Name AHA officer]	Manager Animal Health Standards	Signature:

	your DPI logo here ication	for easy		CONTROL CENTRE: ADDRESS: PHONE: FAX:								
	FACSIMILE MESSAGE											
To:	[AHA officer]	FAX No. 02	6232 5511	Location: Animal Health Australia								
From												

T					
			k [month/year]	• "	
	est to AHA for	r authorisa	ation to return	• —	ne
Request No.				File	
1.Person making re	equest				
Name			Contact no.		
Location			Signature:		
2. Request details					
volumes (<200 dose 6203 5522) to comp	s), or bottles (200m lete arrangements,	l), with <u>cold cha</u> once this form	]. This form is intende ain not maintained. Ple has been faxed throug	ease contact [AHA h to Animal Healt	officer] (02 h Australia.
Estimate of CED doses with same barcode (max 200)	Barcode	Batch No.	Estimate of CED doses with same barcode (max 200)	Barcode	Batch No.
Deliver to:			Opening hours for de	elivery:	Approximate delivery date:

3. AHA USE ONLY			
Acknowledged		Date	
[Name AHA officer]	Manager Animal Health Standards	Signature:	

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