Supplement 6 Voluntary Preparedness Components of the Secure Egg Supply Plan

This supplement to the *Secure Egg Supply (SES) Plan* describes the Voluntary Preparedness Components of the *SES Plan*.

CONTENTS

Supplement 6 Voluntary Preparedness Components of the Secure	
Egg Supply Plan	. S6-1
S6.1 Introduction	S6-1
S6.1.1 Preparedness Components	S6-1
S6.2 BIOSECURITY CHECKLIST FOR EGG PRODUCTION PREMISES AND AUDITORS	S6-3
S6.3 LOCATION VERIFICATION OF PREMISES FOR THE VOLUNTARY PREPAREDNESS COMPONENTS OF THE SES PLAN USING GPS COORDINATES	S6-5
S6.4 EPIDEMIOLOGY QUESTIONNAIRE AND FLOCK DATA	S6-5
S6.5 ACTIVE SURVEILLANCE PROGRAM (RRT-PCR TESTING)	S6-5
S6.6 SECURE EGG SUPPLY DATA PORTAL	S6-6
S6.7 Publications	S6-6
S6.8 EPIDEMIOLOGY QUESTIONNAIRE	S6-7

S6.1 Introduction

S6.1.1 Preparedness Components

The Voluntary Preparedness Components of the *SES Plan* were the result of a cooperative agreement between faculty at Iowa State University and USDA-APHIS. Developed by the Center for Food Security and Public Health at Iowa State University in collaboration with the Center for Animal Health and Food Safety at the University of Minnesota, the egg industry, poultry veterinarians, and USDA-APHIS-VS, the Voluntary Preparedness Components of the *SES Plan* facilitate business continuity by allowing movement of eggs and egg industry products from non-infected premises within an avian influenza Control Area. The Voluntary Preparedness Components of the *SES Plan* were previously known as the

Federal and State Transport Plan for Eggs (FAST Eggs Plan). The objectives of the Voluntary Preparedness Components of the SES Plan are as follows:

- ◆ Minimize the risk of exposure of poultry flocks to HPAI and thereby limit the spread of HPAI during an outbreak.
- ◆ Provide a high degree of confidence that whole shell eggs entering market channels for human consumption are free of HPAI virus.

During a response to an HPAI outbreak, animal health regulatory officials will need time to evaluate premises' biosecurity practices, determine exposure to dangerous contacts with Infected Premises, and conduct daily surveillance of flocks in the Control Area. Egg producers can voluntarily participate in the Voluntary Preparedness Components of the SES Plan. Participation will reduce the time expected to meet the criteria for moving eggs and egg products into market channels. The Voluntary Preparedness Components of the SES Plan has four components for an egg premises that chooses to enroll voluntarily prior to an outbreak:

- ◆ Compliance with the biosecurity checklist for egg production premises and completion of audits: 45 measures that can be implemented prior to or during an outbreak that would reduce the risk of introducing HPAI virus onto production premises.
- ◆ Location verification using GPS coordinates
- Training on completion of the epidemiological questionnaire and entry of flock data into the secure SES data portal
- ◆ Training on procedures to collect and submit samples for the active surveillance program using RRT-PCR.

An SES data portal is also available for use during an HPAI outbreak by State and Federal regulatory officials to collect mortality data, monitor production parameters, record the results of the epidemiologic questionnaire, and record RRT-PCR results from *all* egg farms in a Control Area (with or without prior enrollment in the Voluntary Preparedness Components of the *SES Plan*).

By enrolling prior to an outbreak, premises can get preapproval from the SAHO or Assistant District Director (formerly Area Veterinarian in Charge) for their biosecurity practices. The specific biosecurity practices can be audited and premises-specific GPS location data collected. Farm personnel can be trained to collect oropharyngeal samples and have an opportunity to complete at least one trial exercise to determine the time required to collect samples on the farm and to travel to a veterinary diagnostic laboratory. Farm managers can have prepositioned resources, including an instructional DVD and written materials describing oropharyngeal sample collection, BHI tubes, sampling swabs, veterinary diagnostic

laboratory submission forms, directions to the veterinary diagnostic laboratory, and an SES data portal account where they can enter daily production data.

Egg producers can enroll through their State coordinator. Until a State coordinator is identified in each State with interested egg producers, the biosecurity checklist and an oropharyngeal swabbing video can be viewed at www.sesdataportal.org to enhance preparedness efforts.

S6.2 BIOSECURITY CHECKLIST FOR EGG PRODUCTION PREMISES AND AUDITORS

The Voluntary Preparedness Components of the *SES Plan* "Biosecurity Checklist for Egg Production Premises and Auditors" contains 45 important biosecurity measures that, if fully implemented, help reduce the risk of introducing HPAI virus onto egg production premises (see www.sesdataportal.org). These biosecurity measures were based upon the input of a panel of poultry veterinarians (with expertise in egg production and avian influenza), as well as State and Federal epidemiologists, egg producers, universities, and regulatory agencies.

Implementation of these biosecurity measures prior to an outbreak will significantly reduce the likelihood that the HPAI virus will be introduced onto egg production premises:

- ◆ Voluntarily participating egg producers will provide "Yes" or "No" responses to biosecurity statements on the checklist. "Yes" means that the biosecurity measure is part of a farm's written biosecurity plan and the policy is enforced. "No" means that the biosecurity measure is not a company policy, and the premises do not qualify for the Voluntary Preparedness Components of the SES Plan until the deficiency is corrected. To participate in the Voluntary Preparedness Components of the SES Plan, egg production premises must utilize all biosecurity measures on the checklist.
- ◆ An *auditor* will be assigned to participating egg premises by the SAHO after consultation with the Assistant District Director. An official auditor must be a State or Federal animal health official (or another individual) deemed qualified by the SAHO and Assistant District Director.
- ◆ Auditors confirm the validity of biosecurity statements checked "Yes" and submit a written report of their findings to the SAHO, Assistant District Director, and manager of the egg premises. The SAHO and Assistant District Director use this information to determine whether the level of biosecurity is sufficient to qualify the premises for participation in the Voluntary Preparedness Components of the SES Plan.

- ◆ An approved *audit, no more than 6 months old*, must be on file with the SAHO and Assistant District Director for egg premises to participate in the Voluntary Preparedness Components of the *SES Plan*. The SAHO and Assistant District Director must decide whether the biosecurity level of egg production premises is sufficient to qualify the premises for participation in the Voluntary Preparedness Components of the *SES Plan* (pass) or not (fail). If premises fail a biosecurity audit, the reasons for failure will be provided in writing to the farm manager. Farm managers then have the option of taking corrective action and requesting another audit.
- ◆ When possible, the *same auditor will visit the same egg production premises* on subsequent visits so that, over time, the auditor will become familiar with the egg operation and the farm manager will become familiar with the auditor.
- ◆ The *initial audit* will require an *on-site visit* to the egg production premises by the auditor. To protect the biosecurity of the egg operations, *auditors* will survey the outside areas on the premises and egg processing areas but will not enter the chicken houses. Subsequent audits will consist of a meeting between the auditor and the farm manager at an off-site location to review records followed by a visual inspection of the outside areas of the premises by the auditor, who will remain inside a vehicle owned by the egg farm.
- ◆ Audits are premises specific. Premises vary in size, from a single, standalone chicken house to multiple chicken houses and out buildings at a modern in-line egg production complex. If a business produces eggs at multiple locations, each participating location must have a separate audit.
- ◆ GPS location. The longitude and latitude for each participating egg operation will be determined by a State or Federal employee currently trained to use a GPS receiver. A Premises Identification Number (PIN) may be assigned by the State in which the egg premises are located. Premises registration forms are available on each state's department of agriculture website.
- ◆ At least one animal health official from each State with participating egg producers will be expected to attend annual training sessions at a USDA-approved training program for egg premises auditors to (1) review the clinical signs and lesions associated with avian influenza; (2) discuss interpretation of data pertaining to feed consumption, water consumption, and egg production; and (3) promote uniformity of audits for the nation's egg industry.

S6.3 LOCATION VERIFICATION OF PREMISES FOR THE VOLUNTARY PREPAREDNESS COMPONENTS OF THE SES PLAN USING GPS COORDINATES

Egg production premises participating in the Voluntary Preparedness Components of the *SES Plan* will register with the State coordinator. The longitude and latitude for each participating egg operation will be determined by a State or Federal employee trained to use a GPS receiver. Participants may opt to register their premises in the Voluntary Preparedness Components of the *SES Plan* online or by mailing or faxing forms to their State coordinator.

S6.4 EPIDEMIOLOGY QUESTIONNAIRE AND FLOCK DATA

In the event of an outbreak of HPAI, an epidemiology questionnaire, previously provided to managers of participating egg operations, will provide information that will allow foreign animal disease investigators to determine whether the premises enrolled in the Voluntary Preparedness Components of the *SES Plan* have been exposed directly or indirectly to birds and other animals, products, materials, people, or aerosol from the IP. A proposed version of the epidemiology questionnaire is available at the end of this chapter and at www.sesdataportal.com.

At the start of an incident, in addition to the epidemiology questionnaire, participating facilities will submit daily information on mortality and egg production for the preceding 7 days for each chicken house on the premises. Participating premises managers will report significant unexplained changes in feed consumption, water consumption, or behavior. This data will be submitted directly to the data portal daily and will be available to the Incident Commander while the premises enrolled in the Voluntary Preparedness Components of the *SES Plan* are in a Control Area.

S6.5 ACTIVE SURVEILLANCE PROGRAM (RRT-PCR TESTING)

Potential presence of H5 or H7 avian influenza virus infection on premises enrolled in the Voluntary Preparedness Components of the *SES Plan* will be monitored by requiring chickens from each house on the farm to be tested prior to product movement and found to be negative by the RRT-PCR test. In addition, chickens in these flocks must be free of clinical signs of disease and the flocks must have no unexplained increase in mortality or decline in egg production or feed consumption. See Chapter 1 of the *SES Plan* for more surveillance information.

S6.6 SECURE EGG SUPPLY DATA PORTAL

Data from the biosecurity checklist, audits, and GPS coordinates can be entered into the database prior to the event. The responses to the epidemiology question-naire flock production data, and daily RRT-PCR test results are only entered at time of outbreak. This information will be stored in a database administered by each participating State with support from Iowa State University's CFSPH. All registered egg producers will have a unique login and password to access the data portal. In the event of an outbreak, the egg producer should complete the online epidemiology questionnaire and enter their premises-specific flock production data. ICs will be able to access this information in the event of an HPAI outbreak to help determine issuance of movement permits.

S6.7 Publications

A review of scientific literature addressing avian influenza in chicken eggs is available in the following paper: Spickler, A. R., D. W. Trampel, and J. A. Roth (2008), "The onset of virus shedding and clinical signs in chickens infected with high pathogenicity and low pathogenicity avian influenza viruses," *Avian Pathology* 37:555-577.

A summary of the need for the measures in the Voluntary Preparedness Components of the *SES Plan* is available in Trampel, D. W., J. T. Zack, T. Clouse, D. Bickett-Weddle, G. B. Brown, V. Rao, H. S. Hurd, G. I. Garris, and J. A. Roth (2009), "A federal and state transport plan for movement of eggs and egg products from commercial egg production premises in a high-pathogenicity avian influenza control area," *Journal of the American Veterinary Medical Association* 235:1412-1419.

On the basis of the science provided by the draft *Interagency Risk Assessment for the Public Health Impact of Highly Pathogenic Avian Influenza Virus in Poultry, Shell Eggs, and Egg Products* compiled by FSIS in 2008 and the daily RRT-PCR testing required as surveillance within an HPAI Control Area, the Egg Sector Working Group deemed the Geospatial Risk Estimate (GRE) described in the above publication unnecessary as a permitting decision tool.

S6.8 EPIDEMIOLOGY QUESTIONNAIRE

SECURE EGG SUPPLY PLAN HPAI EPIDEMIOLOGY QUESTIONNAIRE

Date:
Business/farm name:
Primary contact:
Business address:
Business telephone number:
Cell telephone number:
Fax number:
Home telephone number:
E-mail address:
Secondary contact:
Business address:
Business telephone number:
Cell telephone number:
Fax number:
Home telephone number:
E-mail address:
Farm Address (911 and Animal Location):
City: Zip code:
County:
Township:
Range:
Section:
GPS coordinates (decimal degrees):
Premises identification number:

The purpose of this epidemiological questionnaire is to help the Incident Management Team determine a premises' classification: Contact Premises, At-Risk Premises, or Monitored Premises. Additional information will be considered (e.g., daily PCR testing and production data) when decisions regarding movement permits are made.

Employee Risk Factors

1.	oth	any of your personnel work at other poultry premises or have they visited er poultry premises, hatcheries, processing plants, or poultry slaughtering facilithin the past 21 days?	ies □ Yes	□ No
	a)	If Yes, what premises?		
2.		any of your workers live with someone who works at another poultry farm, hatcheessing plant, slaughter facility or rendering plant?	hery, □ Yes	□ No
3.	Ha	ve you hired new personnel during the past 21 days?	□ Yes	□ No
	a)	If Yes, did they work for another poultry premises before you hired them?	☐ Yes	□ No
	b)	If Yes, where did they work prior to coming to your premises?		
4.		s an employee from this premises visited a rendering plant hin the past 21 days?	□ Yes	□ No
	a)	If Yes, what plant?		
	b)	If Yes, did the person clean and disinfect his/her vehicle before returning to your premises?	□ Yes	□ No
	c)	If Yes, did the person change outer clothes before returning to your premises?	□ Yes	□ No
	d)	If Yes, did the person disinfect footwear or change into footwear dedicated to this premises upon return?	☐ Yes	□ No
Biose	cui	rity Risk Factors		
5.	Are	e you enrolled in the Voluntary Preparedness Components of the SES Plan?	□ Yes	□ No
	a)	If Yes, date of last audit		
6.		ve migratory waterfowl been seen on the ground or water within 0.62 m (1 km) os containing chickens in the last 21 days?	of your bo □ Yes	
	a)	If Yes, please describe:		
7.	Ha	ve free flying birds been observed in the chicken houses in the past 21 days?	□ Yes	□ No
8.		eed protected from exposure to feces from wild birds, waterfowl, lents and/or wild mammals?	□ Yes	□ No
9.		water protected from exposure to feces from wild birds, waterfowl, lents and/or wild mammals?	□ Yes	□ No

10.			e following on the following of the foll	describes t	his farm's u	isual carcas	ss (daily mortality) dis	sposal meth	od′	?
		Renderi Compos Burial Incinera Other (s	sting	[[[□ on-farm		n n n			
11.	Do	you disp	ose of dead	d birds fron	n other farm	ıs?		ПΥ	es	□ No
	a)	If Yes, p	olease provi	ide more d	etails:					
12.	Hav	/e you in	troduced ch	nicks onto	this farm in	the last 21	days?	П Υ	es	□ No
	a)	Was the	breeding f	lock serolo	gically test	ed for aviar	influenza?	□ Y	es	□ No
13.	farr	ners' ma	rket, fair) in	the past 2	?1 days?		arm (e.g., markets, sh	ПΥ	es	□ No
Trace			rmation							
In the la	ist 2 e inf	1 days, of	did the follo	e for each	unique sou		occur? If yes, please in add more rows by			
14.	Egg	gs (e.g., s	sideloading)			☐ Yes □	□No □□	on'	t know
Sou	rce/	name	Truck an ment C& entering?		ment C8	d equip- &D when (Yes/No)	Personnel entered chicken house? (Yes/No)	Entered tor (Yes	logʻ	?
Ado	litior	nal Comr	ments:							

15. Live Bird	ds (incl	luding re	placement pu	llets or backfillir	ng pullet	s)	☐ Yes ☐ No	□ Don't knov
Source/ name	equi C&D ente	ck and pment before ering? es/No)	Truck and equipment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entere visit log (Yes/	or ?	tested for av	kens RRT-PCR ian influenza ing onto your Yes/No)
Additional C	omme	nts:						
16. Feed tru	cks						☐ Yes ☐ No	Don't knov
Source/nan	1e	ment (and equip- C&D before g? (Yes/No)	Truck and e ment C&D v leaving? (Ye	vhen	_	rsonnel enter rd housing? (Yes/No)	Entered in visitor log? (Yes/No)
Additional C	omme	nts:						
Fresh litter/b	edding	9					☐ Yes ☐ No	Don't knov
Source/nam	е	ment C	and equip- &D before g? (Yes/No)	Truck and ed ment C&D w leaving? (Yes	hen		rsonnel enter ird housing/ (Yes/No)	Entered in visitor log? (Yes/No)

					☐ Yes □	□ No	☐ Don't know
Source/name	mer	ck and equip- nt C&D before ring? (Yes/No)	Truck and ment C& leaving? (D when	Personnel ent bird housing (Yes/No)	-	Entered in visitor log? (Yes/No)
Additional Comm	ents: _						
19. Catch/vaccin	ation/b	eak trim crews			☐ Yes □	□No	☐ Don't know
Source/name		Truck and eq C&D before e (Yes/N	ntering?	C&D w	nd equipment hen leaving? Yes/No)		ered in visitor g? (Yes/No)
Additional Comm	ents: _						
20. Off-site Rend	lerer				□ Yes [□ No	☐ Don't knov
	Tru	ck and equip- nt C&D before ring? (Yes/No)	Truck and ment C& leaving? (D when	Personnel ent bird housing (Yes/No)	er	☐ Don't know Entered in visitor log? (Yes/No)
20. Off-site Rend	Tru	nt C&D before	ment C&	D when	Personnel ent	er	visitor log?
Source/name	Tru mei ente	nt C&D before	ment C& leaving? (D when Yes/No)	Personnel ent bird housing (Yes/No)	ter ?	Entered in visitor log? (Yes/No)
Source/name a) Did the d	Tru mei ente	nt C&D before ring? (Yes/No)	ment C& leaving? (D when Yes/No) premises?	Personnel ent bird housing (Yes/No)	er ?	Entered in visitor log? (Yes/No)
a) Did the d b) If Yes, when the did to the	Tru mei ente	nt C&D before ring? (Yes/No)	ment C& leaving? (while on this s did he or s	D when Yes/No) premises? he enter?	Personnel ent bird housing (Yes/No)	ter ?	Entered in visitor log? (Yes/No)

21. Company ve	eterinarian/service techni	cian	☐ Yes ☐ No	□ Don't know
Source/name	Truck and equip- ment C&D before entering? (Yes/No)	Truck and equip- ment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entered in visitor log? (Yes/No)
Additional Comn	nents:			
22 Non-compar	ny veterinarian/consultar	nt	П Yes П No	o □ Don't kno
	Truck and equip-	Truck and equip-	Personnel enter	Entered in
Source/name	ment C&D before entering? (Yes/No)	ment C&D when leaving? (Yes/No)	bird housing? (Yes/No)	visitor log? (Yes/No)
Additional Comn	nents:			
23. Service pers	sonnel (e.g., construction	ı, gas, plumbing, pest c	control) 🗆 Yes 🔲 No	☐ Don't knov
Source/name	Truck and equip- ment C&D before entering? (Yes/No)	Truck and equip- ment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entered in visitor log? (Yes/No)
				,
	1			
Additional Comp	nents:			

24. Customer/bu	uyer/dealer		☐ Yes ☐ No	☐ Don't know
Source/name	Truck and equip- ment C&D before entering? (Yes/No)	Truck and equip- ment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entered in visitor log? (Yes/No)
Additional Comn	nents:			
25. Other poultry	y producer		☐ Yes ☐ No	☐ Don't knov
Source/name	Truck and equip- ment C&D before entering? (Yes/No)	Truck and equip- ment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entered in visitor log? (Yes/No)
Additional Comn	nents:			
26. Any other vi	sitor (friend/neighbor)		□ Yes □ No	□ Don't know
Source/name	Truck and equip- ment C&D before entering? (Yes/No)	Truck and equip- ment C&D when leaving? (Yes/No)	Personnel enter bird housing? (Yes/No)	Entered in visitor log? (Yes/No)
A 1 1777				
Additional Comn	nents:			

Trace Forward Information

In the last 21 days, did the following movements **OFF** the farm occur? If yes, please provide as much accurate information as possible for each unique off-farm location. You can add more rows by 'right clicking' in the box and selecting "Insert > Insert Rows Below".

27. Eggs					Yes □ No □	☐ Don't know
Destination/ name		C&D when leaving? C&I		ruck and equipment C&D before return- ing? (Yes/No)		I enter bird ? (Yes/No)
Additional Comm	nents:					
	_					
28. Live Birds know					Yes □ No [□ Don't
Off-farm location	on/	Truck and equipm leaving? (d equipment (turning? (Yes	
Additional Comm	nents: _					
This question	n does	ul feed originating on not refer to feed truck previously covered in	s that bring feed on question 15).	onto your pr	emises from of	ther off-farm
Off-farm location/		k and equipment O when leaving? (Yes/No)	Truck and equ C&D before ret (Yes/No	urning?	Personnel e	
		,	`			,
Additional Comm	nents:					

30. Farm person off farm local	nel or equipment used to tions.	haul manure/used lit		Yes ☐ No ☐ Don't know	
Off-farm location/ name	Truck and equipment C&D when leaving? (Yes/No)	when leaving? C&D before return		Personnel enter your bird housing? (Yes/No)	
Additional Comm	nents:				
31. Farm person at off-farm lo	nel or equipment used fo cations.	r catch/vaccination/bo		Yes □ No □ Don't know	
Off-farm location		ipment C&D when ? (Yes/No)	Truck and equipment C&D before returning? (Yes/No)		
Additional Comm	nents:				
32. Farm person carcass disp	nel or equipment used fo	r off-farm		Yes □ No □ Don't kno	
Off-farm location/ name	Truck and equipment C&D when leaving? (Yes/No)	Truck and equ C&D before ret (Yes/No	urning?	Personnel enter your bird housing? (Yes/No)	
Additional Comm	nents:				