Annex A

RELEVANT EXTRACTS FROM PROJECT LICENCE MINUTE SHEET

06,02.03

Application is well justified but 19b procedures require clarification, particularly with respect to end points. Meeting arranged for

20,02.03

Revised application received - all of the comments discussed have been addressed. PPI. Abstract and assessment completed and placed on file. (Docket 4&5).

Rec:

- 1. Grant licence for five years.
- 2. Add standard condition [PPL 8] allowing continued use from PPL

05.04.06

My experience of the work of this group using pigs has shown high standards of care

Annex C

RELEVANT INFORMATION FROM THE ASPI VISIT (INSPECTION) REPORTS

23 June 2005

"Testicular biopsy of a pig carried out by This pig had been treated with busulphan per os for 2 wks, and would continue and have a second biopsy in 2-4 weeks. 1 of a group of 3, one already done was recovering well. Surgery was competently performed. Licence authorities checked ""

5 July 2005

"Pig operated on 2 weeks ago (see VR 23/6/05) appeared to be doing very well, no adverse effects of surgery observed."

30 June 2006

"
Inspected pigs on Busulfan treatment
""

6 July 2006

"Met with... and the team working on production of Tg pigs with a view to modifying organs for transplant research.

Advised that I am concerned that they appear to be planning to continue the current (licensed) pilot study to investigate the new method of producing Tg pigs into a breeding programme (not licensed). Advised that this would not be considered as an amendment to the current PPL but would have to be a new PPL application, but, I would consider an amendment to the current PPL to extend the survival times of the currently used pigs if a new application to use them for breeding was intended within the foreseeable future. This would avoid having to repeat the current procedure.

Also advised that any new application should give specific scientific benefits of doing this work in pigs: future use in xenotransplantation alone might not be an acceptable benefit

28 July 2006

"Pigs undergoing gene transfection and having been biopsied 1 week ago were doing well ""

P	PPL ABS	IKAC	TIKOL							7	
					70 FE 30		\$16.7 \$ 0.6				
A CONTRACTOR OF THE PARTY OF TH		W. V. P. OVC.		1300	4					٦	
PPL Number		<u> </u>					F	A	E N		
	NSE	Q	UEN	CE	S	$\frac{0}{2}$		P	G		
Title (1) T H E C O	1112	- 	ANT	I		T	I H	<u> </u>			
Title (1) T H E T R A	N S P						- 6 10 6 7	3. N. V. W. W. W.	N	7	
ALELLI		and the Colorest		V(27)			1 3 3 A	<u> </u>	<u> </u>		
Section		14 A 1	Section of the Contract of the	alaki kanah					NECKS IN	73)	
PODE (Y or N) (13)	<u> </u>			V SWW.	- 20 Y	141				1273	
	orimary nut	pose; 2	_ seconda	rry pur	pose) (thair e	ffects i	n man,	. \ 1	1	
Pode (Y or N) (13) Permissible purposes (enter: 1 – 1 Prevention, diagnosis or treatments of the prevention of the pre	of disea	se ill-t	nealth or al	onorma	auty or	men c	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_		_	
Prevention, diagnosis or treatment animals or plants A Ssessment, detection, regulation	ent of discu	,					mon	animals or	-	1	
onimals or plants	- 4:	fication	of physio	logical	condit	ions u	ı man,	411111111111111111111111111111111111111			
Aggement detection, regulation	on or moun	11Cation	10- F					- animale	-		
Assessment, detection, regulation plants Protection of the natural environment of the plants Protection of the natural environment of the properties of th			acts of the	health	or wel	fare of	man, c	or ammais			
plants	onment in the	ne inter	ests 01 the	iences							
Protection of the natural environment of knowledge in Advancement of knowledge in a therwise	biological	or beha	avioural so	mr scho	ools						
D Advancement of knowledge in E Education or training otherwis	e than in pr	imary o	or seconda	Ty SCIR							
E Education or training other will											
F Forensic enquiries G Breeding of animals for exper	imontal or o	other so	cientific us	<u>e</u>							
G Breeding of animals for exper	Illicitat C.					লেক্ট্রন্ত	12 N 1 1 5 1 8 1				
0 10.00		Fav. S					(7) y - 1, <u>a</u>		T .		
5. Referral (tick box)	* 1	<u> </u>		<u> </u>							
	Cosme										
APC	Tobaco	co									
	Micros	surgery									
	Wild-o	caught	primates								
	YY	noidea									
	Subete	antial p	rocedures	in prin	Hominoidea Substantial procedures in primates						
	Suosu	WILLIAM F									
1	Other									N	
Internal/second opinion External assessor 6. Brief overview of project (2 s	Other Sentences m		n giving c	ontext	and sta	iting w	thy the	work is wort	h doing)	N	
6. Brief overview of project (2 s In view of the tremendous short	sentences m tfall in the	aximur supply	n, giving c of organs address the	ontext for tra	and sta	v for	transpl	work is wort opropriate to creome before antation is	h doing)	N	
6. Brief overview of project (2 s In view of the tremendous short	sentences m tfall in the	aximur supply	n, giving c of organs address the	ontext for tra	and sta	v for	transpl	work is wort oppropriate to creame before antation is	h doing)	N e the	
6. Brief overview of project (2 s In view of the tremendous short	sentences m tfall in the	aximur supply	n, giving c of organs address the	ontext for tra	and sta	v for	transpl	antation is	th doing) examine this case so acute	e the in be that	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this project rejection.	aximur supply	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for ne prob	transpl	antation is Endanger	h doing) examine re this ca so acute	e the in be that	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this project rejection.	aximur supply	n, giving c of organs address the	ontext for tra	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is	h doing) examine re this ca so acute ed A	e the in be that	
6. Brief overview of project (2 s In view of the tremendous short	sentences m tfall in the this project rejection.	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for ne prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this project rejection.	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this project rejection.	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this projector rejection. est chance of	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be	sentences m tfall in the this projector rejection. est chance of	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the beautiful project (2 s 7. Species justification (tick both project (2 s) Availability of background data are actived by regulatory authority.	sentences m tfall in the this projector, est chance co ox) (18)	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the beauty of the project (2 s 7. Species justification (tick beauty) and the project (2 s Availability of background data Required by regulatory authority).	sentences m tfall in the this projector e rejection. est chance constant of the constant of th	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the beauty of the project (2 s 7. Species justification (tick beauty) and the project (2 s Availability of background data Required by regulatory authority).	sentences m tfall in the this projector e rejection. est chance constant of the constant of th	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp	sentences m tfall in the this projector e rejection. est chance constant of the constant of th	aximur supply ct will: The of an ea	n, giving c of organs address the crisis in rly radical	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed Ar	e the in be that mimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify)	sentences m tfall in the this project rejection. est chance co ox) (18)	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution Equi	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	e the in be that nimal aken from	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify)	sentences m tfall in the this project rejection. est chance co ox) (18)	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution Equi	and sta ansplan les that supply on to th	y for te prob	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	e the in be that mimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify)	sentences m tfall in the this project rejection. est chance co ox) (18)	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for ne prob Prin OW	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	e the in be that mimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for the prob Prin OW	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	e the in be that nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th	y for the prob Prin OW	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	e the in be that nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify)	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	y for the prob Prin OW	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	n be that nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	Prin OW ntial rate	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	n be that nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	Prin OW ntial rate	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	Prin OW ntial rate	transplolem.	antation is Endanger	h doing) examine re this ca so acute ed A	n be that nimal aken from wild	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	Prin OW ntial rate	transplolem.	Endanger species	h doing) examine re this ca so acute ed A	N e the in be that nimal aken from wild N	
6. Brief overview of project (2 s In view of the tremendous short potential use of pigs as donors; achieved – notably hyperacute xenotransplantation offers the be 7. Species justification (tick be Availability of background data Required by regulatory authori Best model for human response Condition studied is species sp Other (specify) 8. Use of neuromuscular block	sentences m tfall in the this project rejection. est chance co (0x) (18) a ity les pecific king agents	aximun supply tt will: The of an ea	n, giving coordinates the crisis in	ontext for tra e hurdl organ solution	and sta ansplan les that supply on to th idae	Prin OW ntial rate	transplolem.	Endanger species	h doing) examine re this ca so acute ed A	N e the in be that nimal aken from wild N	

	PPL	ASSE	SSMENT PROFORMA
	a production of the	TO MOST THE STATE OF THE	
	1.010.1		
		e de la se	
UK resident		Y	1 minut
visited of this area o	f work	Y	is an experienced personal and project
Experience of this area o	f work	Y	licence holder.
Training modules (or	1, 2, 5		
	3, 4	N	The work will be funded by a grant
Experience as PIL-H		1	THE WORK WAR
Senior member of works	group	Y	
Experience as PPL-H		Y	
Access to resources/fund	ding	Y	
Commitment to 3Rs		Y	
Commitment to manage	project	Y	Reason
			Acassis halder has
Take of delegate	(i alea or "or"	Y	is an experienced personal licence holder. has
Experience of delegate	d alea of work	Y	been the surgeon for all of the procedures under the current
Training modules (or	1, 2, 3	N	licence.
equiv)	4	N	The state of the s
	5	Y	4
Experience as PIL-H		$\frac{Y}{Y}$	
Comior member of Wor	kgroup	Y	Reason
The state of the s	-n:	2.10.1	
1-1-0 of delegati	en alca or work		is an experienced personal
Experience of delegate	ed area of work	-	licensee and has a veterinary qualification.
Training modules (or	1, 2, 3		Hoomso was
equiv)	4		
	5		
Experience as PIL-H			
Senior member of Wo	rkgroup	-	Reason Carthin type of work
primary avaitability (((a)	Y/N	Reason Both the staff and facilities are satisfactory for this type of work.
Suitability of facilitie	S	Y	Both the same
Switchility of staffing		I	Roason
Carondary availabilii	yu 1124-01 :	25 FALL	Breas.
Suitability of facilities	es		
Suitability of staffing	3	X 5/4	Payson
protein availability i	3) - 3	Y (Y/)	Y Reason
A dequate description	n of location		
Identified 19b proto	cols at PODE	'Y/	N Reason
Duration (16)			
Less than 5 years		$\frac{5}{Y}$	
Appropriate		Y	
Background (47)			
Account of	Full	7	In view of the tremendous shortian in the supply of transplantation it is appropriate to examine the potential use of transplantation it is appropriate to examine the potential use of
current state of	7 1 1		transplantation it is appropriate to examine the petersians of the pigs as donors. This project will address the hurdles that must be pigs as donors. This project will address the hurdles that must be pigs as donors.
knowledge,	Balanced		pigs as donors. This project will address the hardest are very overcome before this can be achieved – notably hyperacute
products or	Up-to-date		Y rejection.
services	Up-10-date		
G -1 -i	Clear		Y
General aims	Olou.		
	Valid		Y
	1		
Basis for	Clear		Y
objective(s) eg			
working	Valid		Y
hypothesis			
пурощозь			

7 5				To test a strategy for the prevention of hyperacute rejection by the
bjedister (fartis).			Y	To test a strategy for the prevention of hyperactic regions of coagulation mechanisms using novel genetic inhibition of coagulation mechanisms using novel genetic inhibition of coagulation mechanisms using novel genetic inhibition of coagulation mechanisms.
pecific			Y	inhibition of coagulation incentarisms constructs introduced into allograft endothelial cells;
Vell-defined	2000	a	1	constructs introduced into allograft endotherial certs, To develop and appraise a non-invasive method for visualising
or permissible pur	pose	b	-	To develop and appraise a normal blood flow; endothelial cell activation and renal blood flow;
	-	c	-	endothelial cell activation and renal blood how, To assess the contribution in vivo of phagocyte recognition of
	<u> </u>	d	-	To assess the contribution in the or part rejection:
	ŀ	e	_	xenogeneic tissue to graft rejection; To determine, in principle, the possibility of rendering porcine To determine, in principle, the possibility of rendering porcine
	}	f	-	To determine, in principle, the possibility spermatozoa transgenic by introducing DNA into the testis.
	}		_	spermatozoa transgente by introducing
		g	Ý/N	Reason is so acute that
Potential frenchit (11	dofined	Y	
Outputs of program	nme weii-	dernica	Y	xenotransplantation offers the best chance of the
Use of outputs of p	programm	e	1	solution to the problem.
explained			Y	
Significance of ou	tputs of		1	
programme credib	le		V/N	Reason
Plan of work (18)	(1) 数字。子	A-10-15-	Y	
Overview of	Clear		Y	
Suaver	Valid		$\frac{1}{Y}$	
Special	Clear		Y	
justifications	Valid		Y	
	Clear			I is it is a fundament horothe spellinguate a diagram
	Valid		Y	The possibility of fendering potents operated. the injection f DNA into the testis will also be investigated.
Design of	Clear		Y	the my ever-
protocols	Valid	Toron Asia Handa	Y	
Special justificati	ons (18)	7 4	1 Y/N	Reason
Additional	Designate	ea	-	
availability	establish	nent		
avanuo	PODE			
By species	Cat			
By species	Dog			
	Equidae			
	Primate			
	Endange	red species	3 -	
D-s aminim	Schedule		-	
By origin .	Cat		-	
	Dog		-	
	Primate			
	Wild		-	
	Continu	ad use		
By history		ed use		
	Re-use	TN ATP A		
By procedure	Use of 1			
	Release	to the wild	1 -	
	OW pri	mate in	-	
	toxicol			
Design of plan	7101		Y	N Reason
Design of plan	Replica	tion	Y	- determined by statistical
System		nisation	7	The same fire and titteen nick will be necessary to
mechanics or	Local			in order to achieve statistically
operation				each experimental group in order significant results, depending on the experimental end-point.
Group number	Factors			Y
'	Levels	analizaia		Y
Group size		analysis_		Y
	Other	United States	A. 18. 18.	
	,			
Description of	Proces			
biologicals	Efficie			-
production		oroduct		
	t by effici			

ECD, ICH guideline or similar												
roup size set from guideline	-											
ther (state)	-											
atisfactory method for group size	-					******	a servicina	o vestile	e e e e e e e e e e e e e e e e e e e	7 MARCH	- 124 I	Z.
		W. Dura	1	2	3	4.	5	6		8		·V
describe) Design of Protoccis (18,21) To reasonably practicable alternative	to use of living	animal	Y	Y		Y	Y	Y	Y	Y	Y	
lo reasonably practicable alternative	enits		Y	Y	Y	Y	Y		Y	Y	Y	
Most likely to produce satisfactory re	Jauro		Y	i	Y	Y	Y		Y	Y	Y Y	
Minimum number of animals owest degree of neurophysiologica	sensitivity		Y		Y	Y	Y	Y	Y		Y	
east pain, suffering distress or lastic	ng harm		Y			Y	Y	Y	Y		Y	
Schedule 2A compliant			Y	Y	Y	Y	Y	Y 6				0
Specification of Protogols (19)	14. Television		4		3	4		o Y	Y		Y	
Short title suitable			Y	Y	Y Y	Y Y	Y Y	Y	$\frac{1}{Y}$		Y	-
21 11 14 14 16 16			Y	Y	$\frac{\mathbf{Y}}{\mathbf{Y}}$	Y	Y	Y	$\frac{1}{Y}$	1	Y	
of dayslanment and the	umber/year adeq	uately specified	Y	4	Y	Y	Y	Y			Ŷ	\vdash
DDI details for animals bred or used	under licence ac	lequately specified	Y		Y	Y	Y	Y	Y		Y	\vdash
p lated procedures adequately sp	ecified		$\frac{Y}{Y}$		Y	Y	Y	Y			Y	
ac 1 lilealer mandence	anemiaiciv sucu	itied			Y	Ÿ	Y	Y	Y		-	
Methods of prevention or control of	Schedule 1 ki	idequatery specified	Y			Ÿ	Y	Y	Y	Y	Y	
Fate adequately specified	Non-schedule		Y			Y	Y	Y	Y	Y	N	
	For continued		N			N	N	N				
	7 (+ N	N	N	N	N	N	N	N	N	
Estimated numbers by severity him	710) Telediso H	24 V.U/C	Ŋ	lild∗		M	ode	rate		Sub	stan	tia
Birds, fish, reptiles, rabbits, rodents	(MA)	-										
Farm animals				6			21	<u> </u>	_			
									- 1			
					_				+			
Cats, dogs, equidae									+			
Cats, dogs, equidae Primates												
Cats, dogs, equidae Primates CITES species					NATION AND ADDRESS OF THE PARTY.						394	4.4
Cats, dogs, equidae Primates CITES species Other	Seneffis .	that you tro	en lant	ation	n of	fers	the	bes	st c	hano	e o	f a
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trait	ispianiation is so	acute that xenotrar	nsplant	ation	n off	ers	the	bes	st cl	hano	ce o	f a
Cats, dogs, equidae Primates CITES species Other	ispianiation is so	acute that xenotrar	ısplant	ation	n of	fers	the	bes	st cl	hano	ce o	f a
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trait	ispianiation is so	acute that xenotrar	nsplant	ation	n off	fers	the	bes	st cl	hano		
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for traiterly radical solution to the problem	nspiantation is so	actic that renorms	nsplant	ation	n off	fers	the	bes	et cl	hano	Y	/N
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tratearly radical solution to the problet	nspiantation is so	actic that renorms	nsplant	ation	n off	fers	the	bes	st cl	hand	¥	/N Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trainearly radical solution to the probler Pactors taken onto account. Pactors taken onto account.	n.	actic that renorms	ısplant	ation	n off	fers	the	bes	st cl	hand	Y	/N Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tratearly radical solution to the problem Pactors taken onto account Potential benefits Likelihood of production of satisfa	n.	actic that renorms	nsplant	ation	n off	fers	the	bes	st cl	hanc	Y	/N Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Pactors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant	ctory results	, acute that Achteur						hris.			Y	N Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trainearly radical solution to the probler Pactors taken onto account. Potential benefits Likelihood of production of satisfa. Suitability of applicant Comments on likely severity.	ctory results	acute that Konona	sidered	1 for	clin	ica	l us	. T		nini	Y	/N Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for transly radical solution to the probler Pactors taken only account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely severity It is essential to use the pig as a n	ctory results	ne species being con	sidered	1 for	clin	nica	l use	e. T	To t	nini	Y miso	/N Y Y Y e th
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tracearly radical solution to the probler Pactors taken ento account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments or likely seventy. It is essential to use the pig as a number of animals required and	ctory results andel as this is the invasiveness	he species being cons of the procedure,	sidered before	1 for	clir	nica otin	l use	e. T	To r	nini insp	wise lanta	/N Y Y Y e thatic
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Pactors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant Comments of likely severity. It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic as	ctory results andel as this is the invasiveness	he species being cons of the procedure,	sidered before	1 for	clir	nica otin	l use	e. T	To r	nini insp	wise lanta	/N Y Y Y e thatic
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tracearly radical solution to the probler Pactors taken onto account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments or likely seventy It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic a procedure will also be reduced.	ctory results andel as this is the invasiveness	he species being cons of the procedure,	sidered before	1 for	clir	nica otin	l use	e. T	To r	nini insp	misc lanta echn	/N Y Y Y e th atic iqu
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Pactors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely severity. It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic as	ctory results andel as this is the invasiveness	ne species being cons of the procedure, ed in the carotid arteralar injection, the nu	sidered beforery. By	1 for e at y atte	clir temp empi nima	nica otin	l use	e. T	To r	nini insp	mise lanta echn sss o	Y Y Y Y e th atic iqu f th
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Factors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely seventy It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic aprocedure will also be reduced. Factors taken mic account	ctory results andel as this is the invasiveness	ne species being cons of the procedure, ed in the carotid arterular injection, the null Neurophysiologica	sidered beforences beforences before	of articity	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echn ss o	YYYYY thatic iqu f th
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tracearly radical solution to the probler Pactors taken outo account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely seventy It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic a procedure will also be reduced.	ctory results andel as this is the invasiveness	ne species being cons of the procedure, ed in the carotid arterial injection, the number of the carotid proportion of animals.	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	misc lanta echn	Y Y Y Y Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Pactors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely severty. It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic approcedure will also be reduced. Pactors taken into account. Severity of protocols	ctory results model as this is the invasivenession will be studinimals by testicu	ne species being cons of the procedure, ed in the carotid arterular injection, the null Neurophysiologica	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echnoss o	Y Y Y Y Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for transcript radical solution to the probler Pactors taken onto account Potential benefits Likelihood of production of satisfas Suitability of applicant Comments on likely severity It is essential to use the pig as an number of animals required and experiments, the question of reject for the production of transgenic as procedure will also be reduced. Factors taken into account Severity of protocols	ctory results model as this is the invasivenession will be studinimals by testicu	ne species being cons of the procedure, ed in the carotid arterial injection, the number of the carotid proportion of animals.	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echn	Y Y Y Y Y Y Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for trarearly radical solution to the probler Factors taken onto account. Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely seventy It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic aprocedure will also be reduced. Factors taken mic account	ctory results model as this is the invasivenession will be studinimals by testicu	ne species being cons of the procedure, ed in the carotid arterial injection, the number of the carotid proportion of animals.	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echn	Y Y Y Y Y Y Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for transcript radical solution to the problet Pactors taken onto account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments of likely severity It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic a procedure will also be reduced. Factors taken into account Severity of protocols	ctory results model as this is the invasivenession will be studinimals by testicu	ne species being cons of the procedure, ed in the carotid arterial injection, the number of the carotid proportion of animals.	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echn	Y Y Y Y Y Y Y Y Y
Cats, dogs, equidae Primates CITES species Other Comments on assessment of likely. The crisis in organ supply for tracearly radical solution to the probler Pactors taken onto account Potential benefits Likelihood of production of satisfa Suitability of applicant Comments on likely saventy It is essential to use the pig as a number of animals required and experiments, the question of reject for the production of transgenic a procedure will also be reduced. Pactors taken into account Severity of protocols Weighting of protocol by number	ctory results model as this is the invasivenession will be studinimals by testicu	ne species being cons of the procedure, ed in the carotid arterial injection, the number of the carotid proportion of animals.	sidered beforery. By imber	1 for e at y atte of an attivity sever	clir temp nima	nica oting	l use	e. T	To r	nini insp	mise lanta echn	Y Y Y Y Y Y Y Y Y

Comments or salaries of the type of and the is as In my opinion, the potential benefits outweigh the c	ost to the animals and this project should be granted.
Balance of likely benefit and likely severity (tick)	Positive - Uncertain
	Negative
Recommendation 7/8 Deta	

	recombes with	。 第二章
The Property of the Control of the C	Y/N.	Therails
3.00	N	
	N	
annlication	Y	
application	Y	
	 	
Mild		
Moderate	Y	
Substantial	-	C DDI
itions	Y	Continued use from PPL
	3447	
		20 608 2003.
	Substantial itions	N application Y Unclassified - Mild - Moderate Y Substantial - itions Y