forestry, fisheries         & the environment         Department:         Forestry, Fisheries and the Environment         REPUBLIC OF SOUTH AFRICA		CA AS RE ON GE Co Cla	APE VULTURES SESSMENT AN QUIREMENTS I CAPE VULTUI ENERATION FAC omment: 28 July osing date for co	PROTOCOL FOR THE SPECIALIST ID MINIMUM REPORT CONTENT FOR ENVIRONMENTAL IMPACTS RES BY ONSHORE WIND ENERGY CILITIES 2023 mments: 28 August 2023
Circulation: Public	Public Comment: External	Compiled by	r: R Kubayi & D Fischer	Chief Directorate: Appeals & Strategic Environmental Instruments
Disclaimer: Organisations/Peo and will be included on the De	ple whose comments are below partments website as part of the	vare that their names/or of the commenting pro	ganisation name will be aligned to their comments cess.	
BA – basic assessment			EWT – Endangered Wildlife Trust	
CA – competent authority		NEMA – the National Environmental Management Act, 1998 (Act No. 107 of 1998)		
DFFE – Department of Forestry, Fisheries and the Environment			BLSA – BirdLife South Africa	
EA – environmental authorisation			REDZs – renewable energy development zones	
EAP – environmental assessment practitioner			Screening tool – the r	national web based environmental screening tool
EIA Regulations – Environmental Impact Assessment Regulations, 2014			SEA - strategic environmental assessment	
EMI – environmental managen	ent inspector		WEF – wind energy facility	
EMPr – environmental management programme				

## **COMMENTS AND RESPONSE REPORT**

No.	STAKEHOLDER	COMMENT	RECOMMENDATION	RESPONSE		
	GENERAL COMMENTS					
0.1.1	Andre van der Spuy	It is a fact that wind energy facilities (WEF) located in vulture habitat are incompatible with vulture preservation and conservation. It is also a fact that planned wind farms always have the option to be located outside of vulture habitat, or not to be developed at all, while utilized and historical vulture habitat is immovable. Simply put wind Farm development located within vulture habitat which is still utilized is therefore anti-conservation and does not constitute environmentally sustainable development. It is a fact also that acceptable environmental practice, as prescribed under NEMA too, advocates a "risk averse and cautious approach" when development is considered so as to ensure that such development is truly environmentally sustainable.		The comment is noted but not supported. It is possible that the identified site is not posing a risk to Cape Vultures, only through monitoring can this be determined. In addition there is a tremendous body of knowledge being generated around mitigation measures which are proving to be very successful. It is only through assessment that this can be determined. For wind energy projects, the wind resource is obviously the main driver of success of the project, unfortunately the best wind resources are found in elevated areas where vultures also roost and breed. Therefore it is not entirely true to say that wind farms can be located outside of vulture habitat. If, considering the point you make " their habitat encompasses probably the majority of the country." wind energy cannot be a technology considered in South Africa, but is considered in mostly		

		Unfortunately, the intentional violation of both of the above principles is endorsed and facilitated by the "Proposed protocol for the assessment and minimum report content requirements for determining impacts on Cape Vultures (CV) associated with the development of onshore wind energy generation facilities which require environmental authorization", 28 July 2023 (the protocol). The protocol is therefore anti- conservation and must correctly be considered to be a direct threat to the conservation of the Cape Vulture, an Endangered species. The danger of the protocol is that it pretends to be a tool that serves to protect the National Cape Vulture population whereas it actually facilitates and endorses wind farm development within vulture habitat. It is anti- conservation		<ul> <li>every country in the world. This does not seem to be a balanced approach.</li> <li>The protocol has been developed to enable the generation of additional site specific information that can assist developers, scientists and the decision makers to determine the extent of risk posed, and it is additional to the current requirements.</li> <li>The comment and view is noted but not supported.</li> </ul>
	<u> </u>		SCOPE	
1.1.1	Andre van der Spuy	The protocol specifies that where the DFFE screening tool identifies a location being considered for WEF development as being designated as "High" or "Very high" in terms of Cape Vulture sensitivity then a CV specialist who is inter alia familiar with vulture characteristics and issues must verify		The specialist's work will be undertaken to determine if the site is fatally flawed or not and if the site can in fact be submitted for consideration of an EA. Compliance to the protocol is part of the assessment process for the development which includes identifying the preferred site. The nature of an EIA process is that the

the	designated sensitivity rating before	impacts and in the case of Cape Vultures,
the	WEF can be considered further.	the collision risk potential, will be
		determined before and after mitigation
The	first obvious flaw with this approach	measures have been applied to determine
is the	hat the identification of "High" or	if the risk can be mitigated to an acceptable
"Ver	ry High" sensitivity CV habitat is a	level. In the case of Cape Vultures, this
misr	nomer as its correct designation	does not mean that any deaths will be
shou	uld be "No go" area for total	tolerated, it will be up to the specialist to
excl	usion of WEF development.	make the argument for a fatality number if
Mor	eover, given the precarious	this has been found to be acceptable to the
cons	servation status of the national CV	national, regional and international
pop	ulation, and vultures in general,	population. Given the conservation status
ever	n lesser sensitivity areas ("Medium"	of the Cape Vulture it is unlikely that such a
and	"Low") should be designated as "No	death rate will be found to be acceptable,
go"	areas if they are known or found to	but these are all aspects, including
cons	stitute CV habitat. Tracking data for	mitigation measures that are considered on
CVs	s suggest therefore that most of	a site level basis and is the objective of the
Sou	th Africa (and much of the sub-	EIA process. No go areas where no
cont	tinent) is unsuitable for WEF	development can take place outside of
deve	elopment. This is merely a hard fact	proclaimed conservation areas have not
that	any genuine conservationist must	been identified or gazetted to date as there
com	e to terms with even if they	are always site specific considerations that
subs	scribe to the ideology of renewable	may not apply over the entire area.
ener	rgy or climate change. In terms of	
(inte	er alia) CV conservation there are	It is acknowledged that there are other
man	ny more CV-friendly energy	energy generation technologies, however
gene	eration options available for	no technology has been prohibited to date,
cons	sideration.	therefore all technologies are provided the
		opportunity to determine impacts, and
The	second obvious flaw is that the	propose mitigation measures.
Dep	artmental screening tool	
desi	ignation of "High" and "Very high"	
sens	sitivity areas is seemingly based	
upor	n the recent CV utilization	It is noted that the model has been
distr	ribution model that has been	published in a peer reviewed publication
proc	duced by Cervantes et al. (2023) but	and as such has been subjected to a review

which is a fundamentally flawed and	of scienti	fic peers who found the model and
incomplete model (even by its own	methodol	logy sound, and allowed the paper
partial admission). The model, for	to be pub	blished.
instance, has a "hole" in its CV		
utilization distribution map of SA based	There is	no data deficiency specifically
on, supposedly, a data deficiency but	identified	in the paper, however if the
which "hole" happens to coincide with	reference	e is to the colony and roost
the Cookhouse Renewable Energy	informatio	on in the vicinity of the central
Development Zone (REDZ3) which is	Eastern (	Cape region, which was identified
where the greatest density of WEF	as being	low or having no Cape Vulture
development in the country exists - and	count ev	ven though there was a high
where the greatest CV mortalities	presence	e of observed vulture activity in the
through turbine collision has occurred	area, th	nis was compensated for by
and continues to occur (this despite the	allocating	g colony size equal to the overall
culprit WEFs having supposedly been	median	colony size. The information
adequately mitigated for negative CV	collected	was extrapolated in the model so
impacts). Of concern is that the	there cal	n be no "holes" experienced. A
corporate funders of the CV utilization	view of	the Cape Vulture risk map also
distribution model have their own WEFs	identifies	that the Cookhouse REDZs has
located within the REDZ3 and within the	more or	less a risk rating of half high and
data "hole". The model applies gross	half low e	environmental sensitivity.
averaging assumptions which ultimately		
results in the REDZ3 being very	Scientists	s have ethical and professional
significantly understated in terms CV	integrity	to not distort research facts.
utilization distribution when compared	Documer	nts are also peer reviewed.
with real-life data, and thus too its		
importance as CV habitat is drastically		
understated. As a result, the collision	The m	nodel has not dramatically
potential of the REDZ3 is likewise	understat	ted the risk profile for Cape
dramatically understated compared to	Vultures	in the Cookhouse REDZs as
the real and current record of turbine	identified	above.
collision mortalities from operating wind		
farms in the REDZ3 and recorded		
observations. Naturally the DFFE and	These au	uthorisations have been finalised
Minister carry direct responsibility for	before th	e implementation of this protocol,
authorizing the unsustainable WEFs of	therefore	it is possible that the additional

	the RED73 which continue to kill $\Omega/c$	monitoring and assessment requirements
	and other birds and bats on an oncoing	could improve on the situation which is the
		could improve on the studion which is the
	pasis in unacceptable and	
	unsustainable numbers.	
		Of the total number of authorisations
	Given the history of CV mortality	issued, the majority of wind energy facilities
	through turbine collision in the REDZ3	have been authorised in the Western Cape.
	(which should have surely generated	
	the largest dataset of usable CV	So there is no gap over the REDZs, the risk
	mortality data in South Africa?) and the	map indicates that a portion of the area has
	large number of WEF EIAs undertaken	a high risk rating and the remaining portion
i	in the area, it is disingenuous to allocate	a low risk rating.
	the REDZ3 area as being equivalent to	-
	the lowest level of potential turbine	The DFFE cannot comment on conspiracy
	collision risk available in the model.	theory.
	Accordingly, one struggles to avoid	,
	arriving at the logical conclusion that the	
	corporate funders have not been	Please see the response to the discussion
	prevented from baying undue and	on the incompleteness of the model
	significant influence on the model on	
	account of their own damning wind farm	
	impacts on CVs in the PED73 In	
	summary the CV utilisation distribution	
	summary the CV utilisation distribution	Creativity must be registered through the
	anniaction in incomplete	Specialists must be registered through the
	application is incomplete,	relevant registration authority. This
	unrepresentative and unreliable and	registration requires specific qualifications,
	thus the spatial extent of the interpreted	experience and continued learning. The
	"High" and "Very high" CV sensitivity	protocols are also intended to provide a
	designations of the screening tool are	level of guidance on the aspects to be
	presumably too (being significantly	considered in the assessment and the
	understated). The verification of these	report content. If a specialist is unethical,
	sensitivity designations becomes of	they can be reported and face
	crucial importance but here too the	consequences, which could include not
	protocol is deficient as explained below.	being able to work in the field going
	-	forward. This is not novel to the Cape
		Vulture Protocol but applies to all specialist

Thirdly, the protocol relies significantly	assessments, therefore the Cape Vulture
upon CV-specialist expertise to	Protocol does not change any current
generate reliable verifications of	procedure or registration.
screening results and CV impact ratings	1 5
vet experience of more than a decade	
has shown that the avifaunal experts	It is not supported that the protocol is vague
typically involved in WEF development	on the level of qualification, the specialist
EIAs are variously insufficiently or	would need to demonstrate their
inappropriately qualified, incompetent,	experience in dealing with Cape Vultures.
lack appropriate or any suitable	
experience or / and are unethical and	
compromised through ideology and/ or	
personal business interests The	
biology of the many species under	
Class Aves is diverse in all respects and	
there are very few genuine vulture	
specialists practicing in the field of FIAs	
in South Africa Vet it is critically	
important that the required impact study	
under the protocol be undertaken by a	
vulture specialist or at least an	
ornithologist as opposed to a general	
avifaunal specialist or ecologist	
However the protocol is vague in its	
definition and specifications of what	
qualifications a suitable CV specialist	
must hold and is sufficiently vague	
(noint 2.1 refers) as to the lovel of	
qualification such CV specialist should	
have. This inherent weekness of the	You will note that Vulnra is sited in the
nave. This innerent weakness of the	Fou will note that vulpto is clied in the
protocol will most certainly be to the	the paper and has provided data and input
significant detininent of the CV	ine paper and has provided data and input
population, as it has been to date in	
wer development in SA. This critically	
important specialist role and associated	
tasks should be left to only credible and	

		<ul> <li>specific vulture specialists associated with independent organizations such as Vulpro or perhaps other vulture specialists whose credibility they are willing to endorse.</li> <li>2. SITE SENSITIVITY VERIFICATION A</li> </ul>	AND MINIMUM CONTENT REPORT REQI	JIREMENTS
2.1.1	Albert Froneman	22(a)(iv) "Continuously monitor wind speed and other weather data "Is this practical and does this responsibility then become that of the specialist if the developer has not installed wind masts on the <b>preferred</b> site??	Perhaps it would be better worded as: If available wind speed and other weather data (that could influence Cape Vulture activity on the preferred site) should be integrated into the survey data analysis.	Wind speeds are consistently monitored by the developer for a period of two years as part of the requirements for the Independent Power Producers Procurement Process. It would be possible to use this data, or alternatively the purchasing of an anemometer is not pricy. It is important to know what the wind speed and direction is to understand the movement of birds and specifically vultures over the site. It is felt that the requirement is not impractical.
2.1 2	Albert Froneman	2.2 (b) - vantage point monitoring by two people at the same time for a duration of at least 72 hours per vantage point, once per month for the 12 month period, in order to determine the level of Cape Vulture flight activity on the preferred site and the height of flight;	Suggested amendment to be: "bi- monthly for the 12 month period, "to align with the current BLSA vulture guidelines.	The intention of this protocol is to ensure that additional monitoring is undertaken as the areas that are subject to the protocol is identified as being of high or very high risk. The BLSA guidelines would be adequate for medium and low risk. An amendment was made in the protocol on the number of monitoring events. It was not intended that monitoring would be needed to be undertaken each month for 12 months. The input has been amended to indicate that 8 events per year and 14 hour per event with 2 observers being used at each point. So, each observer could be used for 7 hours for the event to allow for eating and resting during the monitoring event. A new

				footnote 7 has been added to provide further clarity. Paragraph 2.2(b) should furthermore be read with paragraph 2, which clarifies that 8 site visits are required within the 12-month period.
2.1.3	Albert Froneman	Where the site sensitivity verification has confirmed the site as being of a "medium" or "low" sensitivity for collision risk to Cape Vultures, the site sensitivity verification report must be included in the assessment report required to be submitted in accordance with the requirements of the Environmental Impact Assessment Regulations.	More guidance and clarity is required on how the sensitivity thresholds are defined and triggered. See below for more detail.	The sensitivity ratings were prepared by the FitzPatrick Institute of African Ornithology of the University of Cape Town and HawkWatch International. The screening tool sensitivity ratings levels were developed with input from BLSA and other relevant experts in Cape Vultures conservation. The layer on the screening tool also contains meta data which indicates how the
2.1.4	Kate Webster	"The potential collision of Cape Vultures with wind turbines is to be confirmed by undertaking a site sensitivity verification for a period of at least 12 months, with surveys timed to account for as much seasonal variation as possible. A minimum of 6 site visits must be conducted within the 12-month period." The above is not sufficient in length of time for surveys. No consideration of prevailing climatic conditions (drought or extreme wet seasons) are taken into consideration. Cape Vultures can cover tremendous distances especially prior to becoming breeding pairs and food availability plays a very dominant role in determining where they will forage.		layer has been prepared. The concern is noted. The vantage point monitoring events have been increased to 8 events over the year. For each vantage point 2 observers are required to monitor the point for 14 hours in total per monitoring event. This now exceeds what is required by the BLSA guideline and the initial requirements of the protocol. The additional events are intended to be able to consider the variations in climatic conditions.

2.1.5	Kate Webster	The site sensitivity verification must be	The 10 km radius as well as the 30 km	The risk layer has considered tracking data
		undertaken through the use of:	radius is a ridiculous assumption that	from 68 Cape Vultures collected over the
		"(a) site inspections to-	Cape Vultures that fly or are seen	last 20 years as well as the location of birds
		i. identify the land use in the	beyond this area are not going to fly or	and the number of birds, from data
		surrounding areas within a 10 km	forage inside this radius! This should at	collected through a number of protocols,
		radius of the preferred	least be beyond 100km radius as Cape	including from direct observation and
		site with specific reference to the	Vultures can cover in excess of this on a	helicopter surveys. This data has been
		possible location of vulture	single day. (consult VulPro tracking data	used to develop a behavioural model based
		restaurants or land uses which	to confirm this).	on habitat preference and movement
		could result in carcass availability;		patterns. This model has been used to
		ii. identify any specific topographical		estimate the movement around breeding
		features on the site which could		colonies and roosts and to map the
		attract or pose a risk to Cape		utilisation distribution. These results were
		Vultures including existing power		then scaled by the size of the local
		lines within a 10 km radius of the		populations determined by bird counts at
		preterred site;		breeding colonies and roosts. The outcome
		III. Verify the size and status of known		was then mapped to express the expected
		breeding sites and roosts within a		spatial distribution of Cape vultures at a
		30 km radius of the proposed		colony or roost at a given time. (Cervants et
		preferred site that have not been		al. 2023).
		within the past 5 years:		The manning has therefore considered the
		within the past 5 years,		distribution of Cape Vultures and identified
		The 10 km radius as well as the 30 km		the high risk areas for collision Other
		radius is a ridiculous assumption that		factors have also been included
		Cape Vultures that fly or are seen		
		beyond this area are not going to fly or		The increased monitoring required by this
		forage inside this radius! This should at		protocol is therefore intended to confirm the
		least be beyond 100km radius as Cape		movement of Cape Vultures over the site as
		Vultures can cover in excess of this on		their presence would already be anticipated
		a single day. (consult VulPro tracking		and to specifically identify their behaviour.
		data to confirm this).		
2.1.6	Kate Webster	There must be some sort of evidence		Paragraph 2.3(b) requires that the site
-		and proof that this consultation has		sensitivity verification report which is
		taken place with not only ONE of the		generated must be corroborated by

		NGOs but multiple this is not		evidence and input from any NGO's of
		happening at present.		either the verified or different risk mapping.
		The outcome of the site sensitivity		This would include a record of the
		verification		consultation. The CA will assess the
				evidence and come to a decision, therefore
				it would be to the advantage of the
				developer to include inputs from as many
				NGOs as would be relevant based on the
				motivation being submitted. The specialist
				report is also reviewed by stakeholders
				which would include NGOs, therefore if
				some information is left out or incorrect they
				would be able to identify this through the
				consultation process. It is not the intention
				of the Department to tell the professional
				specialists how to undertake their work. It is
				assumed that they have professional
				expertise and are working to ensure that
				the information provided would facilitate
0.4.7		Drive to concern the state of the state		decision making.
<b>Z</b> .1. <i>1</i>	SAWEA	Prior to commencing with the Cape	will a minimum of 6 of 12 site visits be	An amendment has been made in this
		vulture specialist assessment, and in	Verification study?	section to reliect that a minimum of a site
		and pro application avifaunal	vernication study?	visits being required as part of the site
		monitoring plan required in terms of the	Will the Cane Vulture and Wind Farms:	be undertaken over the 12-month period
		Protocol on Avifaunal Species the	Guidelines for impact assessment	be undertaken over the 12-month period.
		collision risk notential for Cane Vultures	monitoring and mitigation (July 2018)	The Protocol does not include a reference
		on the preferred site as identified by the	remain valid?	to the Cape Vulture and Wind Farms
		screening tool must be confirmed		Guidelines The intention is to reference the
			We understand this to mean that prior to	guidance for vantage point monitoring
		The potential collision of Cape Vultures	undertaking the Cape Vulture Specialist	which is included in the BirdLife South
		with wind turbines is to be confirmed by	Assessment for sites containing	Africa Guideline for impact assessment,
		undertaking a site sensitivity verification	sections of high or very high sensitivity	monitoring and mitigation. See footnote 5 of
		for a period of at least 12 months, with	sites for 1 year, wind Developers are	the Protocol.
		surveys timed to account for as much	required to first conduct 1 year of	
		seasonal variation as possible. A	avifaunal pre-construction monitoring	The site visits that are required through the

minimum of 6 site visits must be	and concurrently undertake a Cape	protocol will be different as the site on
conducted within the 12 month period	Vulture Site Sensitivity Verification study	which this protocol would be utilised would
	to verify the sensitivity in the Vulture	have been identified as having a very high
	Screening Tool Theme	or high risk for potential Cape Vulture
	Screening roor meme.	ollinion
	In other words, recording a of the Multure	
	In other words, regardless of the vulture	The manifestructure of the Asifestructure
	Screening 1001 Theme sensitivity, all	The requirements of the Avitaunal
	sites require 12 months for the Cape	Specialist assessment protocol remain in
	Vulture Site Sensitivity Verification study	place for a site which falls within areas of
	(e.g. to verify the sensitivity even if it is	"very high" and "high" sensitivity for Cape
	low in the Vulture Theme Screening Tool	Vultures in the screening tool. Therefore,
	classification).	the developer would have an avifaunal
		specialist already doing vantage point
	Therefore, prior to considering a	sampling and will prepare an avifaunal
	Scoping and EIA Process, the	specialist assessment. What is new is that
	Developers will need incur costs for (1)	the avifaunal specialist appointed should
	1-year of avifaunal pre-construction	have specific expertise in Cape Vultures
	monitoring, (2) 1-year of Cape Vulture	and an extra 2 visits will be required to each
	site sensitivity verification, and (3) 1-year	vantage point. Other visits can follow the
	of bat monitoring before potentially	monitoring regime identified for other bird
	commencing with an additional 1-year of	species. At the end of the first year, the
	Cape Vulture specialist assessment.	Cape Vulture specific monitoring would
	The formal assessment process for an	have determined if there was a specific risk
	identified site will therefore take up to 3	to Cape Vultures. If the site has been
	vears.	confirmed as medium or low environmental
	<b>y</b> = = =	sensitivity, then the specialist will include all
	The current Draft Cape Vulture Gazette	the findings including the findings from the
	is only applicable to one vulture species	Cape Vulture specific monitoring into the
	and only to one of many priority species	Avifaunal Specialist assessment.
	in South Africa, and vet it will	· · · · · · · · · · · · · · · · · · ·
	significantly increase the assessment	If the site sensitivity monitoring identifies
	costs for wind energy facilities. If similar	that the site is very high or high risk then for
	species-specific protocols are	the next year, the Cape Vulture Specialist
	envisioned, the development of wind	Assessment would consider the possible
	energy facilities in South Africa could	mitigation measures.
	soon become unfeasible to Developers	, , , , , , , , , , , , , , , , , , ,

				The additional work would need to be undertaken and based on the outcome of the mitigation proposal, either the site will be found to be acceptable to consider or must be abandoned. Noting that Cape Vultures are endangered in South Africa, regionally extinct in the Kingdom of Eswatini and Critically Endangered in Namibia, and further noting that the site
				being considered has been identified to probably pose a high or very high risk to collision with wind turbines, it is felt to be acceptable to afford these birds additional protection, the developer more certainty regarding the long term viability of their investment and the decision maker more data on which to make important developmental decisions which could negatively impact on an endangered species
		3 SPECIALIST ASSESSMENT AND	MINIMUM REPORT CONTENT REQUIR	EMENTS
3.1.1	Albert Froneman	On what basis is an area or site classified as medium and on what basis does a medium risk area as per the risk map (based on data collected) become high risk, and what triggers a high risk area to become very high risk. High and very high risk areas trigger the requirement of an additional year of monitoring and standardization is required on when that is required.	The footnote (6) provides an explanation of low but what is critical and must be included in the protocol is guidance on when a site is classified as high, very high or medium.	The sensitivity ratings have been provided by the FitzPatrick Institute of African Ornithology of the University of Cape Town and HawkWatch International, based on specific tracking data and the preparation of a utilisation distribution model. Please also review the meta data provided for the layer which can be accessed on the left hand side of the screening tool under the Layers (i.e. in the Vulture Species Species Theme Combined Sensitivity theme).

3.1.2	Albert	2.2.6 - Does ESKOM have the	Additional wording has been inserted, to
	Froneman	information and capacity to provide	indicate that the information can also be
		such information for all the projects?	gathered through a site inspection. This
		Perhaps better to reword to read:	could be a drive by and taking a photograph
		ESKOM/EWT partnership?	of the pylon construction to determine if the
		p	line could accommodate nesting by
			Vultures Engagement with Eskom would
			be a last resort if the specialist was not able
			to identify the pylon type and then
			determine what the possible risk could be
			The developer could also discuss with
			FWT However they are more involved
			with collision mapping
3.1.3	Albert	The location of existing power lines	The wording has been amended as
	Froneman	indicating any risk areas and proposed	suggested. Information on bird collision
		power lines as identified in paragraph	with powerlines can be obtained through
		2.2.2 - This information is not readily	either EWT or Eskom who collaborate on
		available - recommend that "proposed"	the updating of a central incident register of
		wording be removed.	bird death along power lines.
		5	51
		Unless it refers to only powerlines of the	
		proposed project - if so it should be	
		stated accordingly i.e.: proposed power	
		lines for the site.	
3.1.4	Kate Webster	As stated above why are developments	Your views and conclusions are noted.
		being authorized/applied for where	
		there is a definitely infringement in the	It is acknowledged that a protocol will not
		Cape Vulture (and African White-back)	solve the problem of bird collisions with
		environment.	turbines or on its own conserve Cape
			Vultures, however the protocol does
		Importantly there is no complete data	provide additional guidance and extends
		base available of how many Cape	the monitoring that must be undertaken
		vultures (and others) have already been	prior to considering the site as being the
		detrimentally affected by this type of	final site. It is possible that in some cases
		development.	even in areas identified as being of very
			high or high risk for Cape Vulture collision,

		What is the point of setting up all these protocols (of which some are not really tested and others have limited data input) and expecting that this will 'solve' the vulture collision issue. Sadly it seems that DFFE is quite happy to 'spend' some vulture bodies for the sake of this type of development however, their mandate really is to sustainably look after the environment for all (including our endemic and near endemic species!). The first priority prior to publishing another set of regulations, is to obtain a data base of what has actually happened with regards to cape vultures (and others) already with this type of		that due to some site anomaly there is no Cape Vulture activity over the site. In these cases development can be allowed. Similarly, it is possible that with the application of certain mitigation measures, the risk to Cape Vultures can be avoided and development can be allowed. The assessment that will need to be undertaken if the Cape Vulture activity is identified on the site, must consider the possible impact of the predicted fatality rate on the regional and national Cape Vulture population with or without mitigation and depending on the outcome the specialist must make the recommendation if this is acceptable or not. It would be difficult for
3.1.5	SAWEA	development. Lastly despite all the protocols before this proposed one, there is a clear indication from present development taking place, that previous protocols have not been taken into consideration and what will guarantee that this additional protocol will assist our endemic Cape Vulture? Nothing!	The pool of avifauna specialists	the decision maker to ignore the input of the specialist. The efforts of NGOs such as BirdLife Africa and Vulpro who regularly monitor and keep data on birds in general and vultures, as well as other conservation agencies and academics conducting research in the field, are acknowledged and supported. Further it is the intention to finalise the implementation of the national bird monitoring database where all the data collected by developer and other interested groups will be populated to improve our understanding of avifaunal species in general. The rules of SACNASP allow for a
J. I.J	JAWLA	undertaken by a specialist registered in	specialising in Cape Vultures is limited.	specialist who meets the requirements of a

the field of zoological or ecological science with the South African Council for Natural Scientific Professions (SACNASP) with demonstrated expertise in Cape Vulture observation and research.	Thus, resource availability is a large concern and will impact finding a specialist to work on the proposed Cape Vulture Specialist Assessment Reports. The SACNASP field should also cover Environmental and Animal themes, provided the specialist has relevant expertise and experience. This is applicable throughout the Protocols where "zoological or ecological" fields are mentioned.	specialist field to register in that field, therefore it is possible for a specialist registered in the animal or environmental theme who meets the requirements, either through their field of study or through past experience to register as a zoological or ecological scientist.
	A significant portion of the new wind farm projects being developed, with decent wind resource and available grid evacuation capacity, are located within high and very high Cape Vulture sensitivity areas. It is therefore crucial that these requirements do not create a bottleneck for the undertaking of such assessments by wind developers.	The comment is noted, however the mandate of the department is to ensure sustainable development and ensuring the correct expertise of specialists undertaking these assessment is necessary to ensure the quality of such assessments.
	As such, can DFFE please indicate how many specialists in South Africa currently meet the requirements specified above and also have experience in undertaking specialist assessments in terms of Appendix 6 of the National Environmental Manage Act (Act No. 107 of 1998, as amended) Environmental Impact Assessment Regulations (2014, as amended) as well as the relevant specialist assessment protocols?	This information can be obtained from SACNASP. Over the past 15 years, the DFFE has approved over 548 wind applications. Of the 548 authorisations only approximately 65 to 70 have received preferred bidder status and have been constructed. There are currently many applications for authorisation being submitted which have no intention of being constructed. Developers should consider the need for the submission of applications and their intention to develop them as they put strain on the system, including the

			And of these specialists which meet the requirements, how many currently have capacity to undertake such assessments? What are the criteria required for a specialist to demonstrate that they have "expertise in Cape Vulture observation and research"? Please share a list of the specialists who meet these requirements.	number of specialists that are available to do the necessary assessments, by submitting applications that there is no need for or commitment to construct. It is the duty of the applicant to appoint suitably qualified specialists, however the need for research in Cape Vultures has been removed.
			May the same Avifaunal Specialist team appointed to undertake the Avifaunal Pre-Construction Monitoring also undertake the Cape Vulture Site Sensitivity Verification study?	If the specialist doing the avifaunal specialist assessment meets the requirements of the Cape Vulture specialist assessment, there are no restrictions.
3.1.6	SAWEA	The site sensitivity verification must be undertaken through the use of: (a) site inspections to: i) identify the land use in the surrounding areas within a 10 km radius of the preferred site with specific reference to the possible location of vulture restaurants or land uses which could result in carcass availability;	Would land uses that could result in carcass availability include livestock farming, wildlife grazing and hunting, roads with the potential for roadkill, etc.? A broad range of land uses may result in carcass availability. Once clarity is provided on the query above, please confirm if desktop data, such as the DFFE SA National Landcover Data (SANLC), can be used to identify and/or supplement land use in the surrounding areas.	The land uses highlighted do have the potential to result in wildlife carcasses, however this would be opportunistic deaths not a site which would encourage Cape Vulture activity on a regular basis and which would create a flight path. It would be possible for the developer as part of their conditions to form agreements with surrounding farmers etc. to agree on carcass management strategies. The use of land cover data or other desktop information that may be used to identify or confirm land-uses are encouraged.
3.1.7	SAWEA	Identify any specific topographical	Why would it become the responsibility	Powerline data can be obtainable in the
		or pose a risk to Capo Vulturos	or wind developers to identify existing	intention here is to get a sonse of
		including existing power lines within a	Cape Vulture? These nowerlines are	cumulative impacts and overall risk of
		10 km radius of the preferred site;	owned and operated by Eskom and are	electrocution or collision of Cape vultures

			not the responsibility of the wind developer, unless this becomes part of the Project's offset plans (but this should be a pre-EIA requirement). As one can imagine with large wind farm sites, this requirement will be extremely costly for Developers, which will hinder new wind developments in high and very high sensitivity areas. Furthermore, not all landowners allow specialists to access their properties, and this may render it impossible to fully achieve this	by powerlines. This information is pertinent in the assessment of that risk. One would not necessarily need to visit adjacent landowners to get information on powerlines but can use desktop information for this.
3.1.8	SAWEA	Verify the size and status of known breeding sites and roosts within a 30 km radius of the proposed preferred site that have not been monitored by any scientific body within the past 5 years.	As per a previous question, will BirdLife South Africa, VulPro, and the Endangered Wildlife Trust be required to share all relevant Cape Vulture data for the site and the surrounding 30km radius during the required consultation process? Will the spatial data of all known breeding sites and roosts be made publicly available as well as the associated monitoring data, where available?	The entities mentioned have indicated their desire to share the relevant data at their disposal as part of their commitment to the development of this protocol. Data is also available on the screening tool. Breeding sites for Cape Vultures are not obscure. Many birds congregate on exposed cliff faces. It would therefore be possible using the information provided on the screening tool on the wind methodology, avifaunal layer, and the expertise of the specialist to locate these sites.

3.1.9	SAWEA	Continuously monitor wind speed and other weather data that could influence Cape Vulture activity on the preferred site throughout the site sensitivity verification period	It should be acknowledged that developing a wind project within an area that poses a potential high or very high risk to Cape Vultures poses a significant risk to the project as the site could be deemed to be fatally flawed. In such instance, the developer may not have erected the met mast or commenced with the wind measurement campaign as the first priority would be to ensure that the project site is not fatally flawed before commissioning the wind measurement campaign and commencing with the application for environmental authorisation	Any site which is being put forward for an environmental authorisation should have adequate and commercially viable wind resources. Without continuous monitoring of wind speed and other weather data that could influence Cape Vulture activity, it would not be able to identify whether the site would be suitable for development. In addition, anemometers are inexpensive to purchase and the specialist should have expertise in utilising this technology.
			It is requested that this required be removed or restated to allow for the use of other online sources of weather data that could be available for an area. This requirement should be based on publicly available weather data, rather than the weather data captured by Developer's met masts. Or alternatively, only the conclusions drawn by the appointed specialist, based on the Developer's wind data shared with the appointed specialist, should be included in the publicly available Site Sensitivity Verification Report, i.e., not specific wind speed figures and other confidential data captured by the met mast. Also see query for clarification under Section 3 regarding this requirement.	Publicly available data would not provide the necessary detail that would be required to determine the flight patterns and behaviours of Cape Vultures which is the objective of requiring the information. In terms of the confidentiality of the information, collated and aggregated information can be provided in the reports. The actual daily or hourly wind speed is not necessary to be reported on, it is the impact of the wind information that would provide the necessary information that would be required for bird behaviour and flight pattern analysis.

	It should be clarified that the wind speed and weather data specifically refers to specialist observations taken by the specialist on site and at the time of any vulture observations, as well as a record of any particular weather conditions that occurred at the time (for example, a weather report for the day that indicated average maximum and minimum temperatures, wind speeds, etc.).	Please see the response above.
	<ul> <li>continuously monitor wind speed and other weather data that could influence Cape Vulture activity on the preferred site throughout the site sensitivity verification period; " The practicality of this is in question - this could be possible if a met mast has already been installed on the preferred site, however if not, what is the expectation then for how the developer or specialist will obtain this data?</li> <li>Is this requirement referring to the wind data collected by the Developer? If so, would Developers be required to share their wind data with the appointed specialist for inclusion in their Site Sensitivity Verification Reports? The Site Sensitivity Verification Report will be a public document, and sharing this information publicly is not acceptable to Developers.</li> </ul>	The developer would be the applicant and it would be to their benefit to provide the information to support the EA application. In terms of the confidentially please refer to the response provided above. It is aggregated information which would be required and this data has a specific purpose and therefore does not need to be information which would be valuable as commercial information.

3.1.10	SAWEA	Vantage point monitoring by two people at the same time for a duration of at least 72 hours per vantage point, once per month for the 12 month period, in order to determine the level of Cape Vulture flight activity on the preferred site and the height of flight;	This contradicts with the statement that requires a minimum of 6 site visits to be conducted within the 12 month period. Please clarify. Will a minimum of 6 or 12 site visits be required for the Site Sensitivity Verification study? Will the Cape Vulture and Wind Farms: Guidelines for impact assessment, monitoring and mitigation (July 2018) remain valid?	Please refer to 2.2(b) of the protocol, the section has been corrected. With two people visiting each vantage point, this should allow more time per vantage point as well as the option of the monitors staggering the visits to ensure they don't miss anything on site. While this may result in more time spent on each vantage point, it must be borne in mind that these are high risk areas for Cape Vultures, and this can only benefit conservation efforts for the species.
3.1.11	SAWEA	If an average preferred site requires seven vantage points, this requirement will result in the following: 72 hours X 12 months = 864 hours (36 days) per vantage point per person [requirement is for two people at a vantage point which has not been factored into this calculation] 864 hours X 7 vantage points = 6 048 hours (252 days) per person for all vantage points [requirement is for two people at a vantage point which has not been factored into this calculation]	This requirement is unreasonable in terms of cost to the Developers and capacity of Avifaunal Specialists. Suitably qualified and experienced Avifaunal Specialists, and their monitoring teams, already lack capacity to take on work which is being conducted in accordance with the current protocol and guidelines. "vantage point monitoring by two people at the same time for a duration of at least 72 hours per vantage point, once per month for the 12 month period, in order to determine the level of Cape Vulture flight activity on the preferred site and the height of flight;" It is recommended that this align with the BLSA vulture guidelines which requires bi-monthly visits	An amendment has been made and there are now 8 visits required, for a site which has been identified as being of high or very high risk of Cape Vulture collision. There would be no point to providing the additional guidance if the status quo is what would be achieved. It is intended, due to the sensitivity rating, that additional monitoring is required on the site.
3.1.12	Andre van der Spuy	The protocol furthers its anti- conservation approach towards CVs by tolerating CV mortality by WEFs at what		The comment is noted but not supported. The mortality rate must be determined to identify the impact on the regional and

it deen	ns to be "acceptable" levels.	national population, this is part of the
Given	that the vulture is the most	assessment process. It would be up to the
turbine-	vulnerable bird group, and	specialist to determine if this would be
which c	ould quickly and easily be tipped	acceptable and to motivate if it is. The
back int	o the "Endangered" category, it	competent authority will then consider the
begs b	pelief that the DFFE could	outcome of the assessment and make a
conside	r there actually exists a level at	call. It is noted that the Biodiversity and
which C	V mortality is acceptable. The	Conservation Branch do comment
level o	f acceptability is left to the	internally on EIA documents and would
discretio	on of the CV specialist which is	comment on any Cape Vulture
a notio	n fraught with threat to CV	assessment. Any decision would be taken
conserv	ation given the wide scope of	with this Branch. It is therefore not a given
allowan	ce permitted for the	that the bird fatality rate will be accepted.
gualifica	tions of such a person. Indeed,	, i
it is av	vifaunal specialists who have	
directly	facilitated the ongoing,	Mitigation is a valid concept in
unacce	otable CV mortalities being	environmental impact management, it
experie	nced at operating WEFs in SA.	could be that through mitigation, the risk is
This has	s usually been achieved through	reduced to 0. For example, shut down on
a toler	ant approach towards high	demand of any turbine which would pose a
negative	e impacts (WEF-friendly) in	collision risk to a Cape Vulture, should such
which	the avifaunal specialist has	vulture activity be observed. This would
conside	red impact mitigation to be	avoid any contact with a Cape Vulture. By
sufficier	tly effective to permit WEF	ensuring that the risk are known it is
develop	ment in CV habitat. This	possible for a developer to identify if they
unwarra	inted emphasis on the	would be able to initiate shut down on
applicat	ion of mitigation measures so as	demand. The need to consider such drastic
to facili	tate WEF development in CV	measures are identified in the protocol, see
habitat	has failed tragically in SA and	paragraph 2.9.1.
the CV	population is suffering because	
of it. T	he evidence (suppressed but	Mitigation is possible. Mitigation measures
known)	clearly shows that mitigation of	have been applied all over the world which
collision	impact is impossible, except for	have proven to be effective, albeit
WEF re	-location and application of the	expensive. For example shut down of
WEF "r	no go" option (refusal of the	turbines as birds approach. This protocol
environ	mental application). The	identifies that these expensive measures

		currently favoured "offset" approach	may need to be applied to ensure that the
		now being employed via the Vulture	developer is aware of the extent of
		Safe Zone program and associated CV	expected mitigation before proposing the
		spatial utilization distribution model of	site. Offsets is not currently the favoured
		Cervantes et al. is being actively	approach to WEF as this would entail the
		promoted and incorporated by WEF	death of an endangered species. Offsets
		development companies, especially	are applicable to land impacts not bird
		those (like Biotherm and Windlab)	impacts. The model on which the Cape
		whose operating and supposedly	Vulture risk model is based is not based on
		vulture-mitigated wind farms are	Safe Zones, but rather identifying risk of
		nonetheless still actively killing vultures.	where Cape Vultures are likely to be active.
		The protocol therefore merely adds	The monitoring will determine if the risk of
		support to this anti-conservation	collision is confirmed to be high or very
		practice by the industry which tolerates	high, and the protocol will provide further
		CV turbines collisions and which is also	guidance on what the assessment should
		an approach tolerated by the DFFE.	needs to cover. The assessment would
		Much media fanfare accompanies the	identify the levels of risk as well as identify
		offsetting efforts, which are presented in	any mitigation measures. The assessment
		the media as proactive and	would then again determine the risk once
		magnanimous conservation	the mitigation measures have been
		contributions by the WEF companies	considered. If the risk assessment
		and even the associated conservation	identifies that the risks are still too high, the
		organisations, so as to divert attention	site would be identified as being not
		away from the real problem of those	acceptable for consideration, and the
		corporates WEFs still killing CVs (and	developer will need to consider an
		white-backed vultures).	alternative site.
			Offections is not an enprepriete mitigation
			Onsetting is not an appropriate mitigation
			ineasure for bird strikes related to an
2112	Andro von dor	The protocol requires that a CV	The commont is noted but not supported
5.1.15	Shuv	specialist assessment be undertaken	Please refer to the response provided in
	opuy	where a site is verified to be a "high" or	
		Very High" sensitivity CV site This	π1.1.1.
		approach is again anti-CV conservation	
		since such confirmation of sensitivity	
		since such communation of sensitivity	

		should immediately designate the proposed site as a "no go" site (and area) for WEF development. For the protocol to even consider WEF further is a violation of the "risk averse and cautious approach" advocated under NEMA.	
3.1.14	Andre van der Spuy	Point 2.2.1. of the protocol should rather include the requirement that all intended, planned, approved and built developments of any type which are located within at least 80km of the proposed WEF site, and as specified by recognized vulture conservation organizations such as Vulpro, be considered. The consideration of only WEFs within 30km radius reflects an ignorance towards the spatial extent of CV habitat and movements and is entirely inadequate. Furthermore, it will fall short of the requirements for a cumulative impact assessment as provided for under NEMA. Same applies to point 2.7.3.	The screening tool Cape Vulture risk layer identifies areas in which Cape Vulture activity is expected, therefore the spatial extent has been factored into the risk layer. The site specific monitoring will then determine the level of activity over the actual site. It is therefore not necessary to consider such a large area for vulture activity. Merely having vultures in the 100km areas does not mean more in terms of risk. If you have vultures using flight paths over the identified site the risk is very high. The 30km radius is for powerlines when considering cumulative effects.
3.1.15	Andre van der Spuy	The further numerously stated general specification of 30km radius around the proposed WEDF site given in the protocol for consideration of CV related features is entirely inadequate. There is no appropriate radius given the extent of CV habits but, as a crude application of the "risk averse and cautious approach" required under NEMA, it is suggested that the specification should	Please see the response to #3.1.14 above.

		be at least a 100km radius around the	
		targeted site.	
3.1.16	Andre van der	Points 2.8.10 and 2.8.11 where, for	This does not identify a tolerance for bird
	Spuy	instance, the specialist is required to	fatalities. It is required in order to
		indicate the "potential annual fatality	understand the risk associated with the
		rate" of CVs, indicates the tolerance of	death of one bird on the national and
		the protocol towards accommodating	regional population. Only through a full
		predicted CV losses from a proposed	understanding of the risks can a decision-
		WEF within a high or very high	maker make an informed decision. Please
		sensitivity area. The wide scope of	also refer to the response provided in
		discernment allowed to the DFFE	#3.1.14.
		competent authority and the CV	
		specialist in the protocol raises	
		significant concern in regard to the	
		demoging WEE development (it clearly	
		doos not sook to provent it)	
3 1 17	Andre van der	Under point 29 extensive scope is	The acceptable number of fatalities could
•••••	Spuy	given to the application of mitigation	be 0 this would depend on the impact on
		measures and Point 2.9.4. even refers	the population size.
		to the "acceptable number of fatalities"!	
		The fact is that CV fatalities from WEFs	
		cannot be effectively mitigated and the	In terms of mitigation, please note that
		consideration of mitigation and the	mitigation is possible through micro siting
		acceptance of fatalities simply provides	and curtailment of the functioning of the
		substantial scope for speculative and	turbine. Success has also been identified in
		over-optimistic impact predictions by	the changing of the cut in speed of the
		unscrupulous operators and officials to	turbine.
		the detriment of real CV conservation. If	
		CV fatalities are predicted at any level,	
		then the WEF application must be	The impact on the population will determine
		refused irrespective of impact mitigation	an acceptance of any fatality, it is unlikely
		proposals (which are inevitably	for an endangered species that any fatality
			rate would be found to be acceptable.

		speculative and exaggerated in their	
		level of effectiveness by the specialists).	
3.1.18	Andre van der	Points 2.12 and 2.13 are concerning in	It is not to say that because it is required
	Spuy	that their specifications regarding post-	that the developer monitor fatalities that
		construction monitoring and record of	one would be expecting them. Monitoring is
		CV fatalities indicates a continuing	required to ensure the ongoing
		direct accommodation in the electricity	acceptability of mitigation measures, which
		generation plan for SA of CV-killing	is a principle in integrated environmental
		WEFs and which is surely a violation of	management. If you are expecting 0
		NEMA and the Convention on	fatalities and fatalities are recorded then
		Biodiversity.	additional mitigation must be applied or the
			responsible turbine shut down. If you were
		CVs range extensively over the three-	not monitoring these events, additional
		dimensional landscape and their habitat	mitigation could not be applied.
		encompasses probably the majority of	
		the country. This is a fact that the DFFE	
		needs to honestly accept and plan for	
		accordingly. The implication is that any	Please see the response to #1.1.1.
		WEF located within SA is very likely to	
		be located within CV (and other vulture)	
		habitat and to thus amount to	
		unsustainable development. No amount	
		of "micro-siting" or inter-site planning	
		will be of any real effect in mitigating	
		such given the relative scale of such	
		insignificant changes.	
3.1.19	Andre van der	It is a fact that other vulture species, not	The WEF's referred to have been
	Spuy	only CVs, are being killed by WEFs in	authorised and constructed without the
		SA. An Enel WEF near Copperton has	benefit of the further guidance that this
		recorded numerous tatalities of White-	Protocol is intended to provide to the
		backed vultures, an Endangered bird,	developer, specialist and decision maker.
		address this important app (it does not	
		intend to)	

In summary, the Protocol threatens to	The view is noted but not supported, the
do more harm than good in terms of CV	protocol provides additional protection
conservation. It is overly lenient in its	through the requirement for additional
tolerance of CV-damaging WEFs	monitoring, more stringent assessment
located in CV habitat. Any potential	requirements and more specific post
WEF location in which vultures are	construction monitoring.
observed or known to occur, even if just	
occasionally, is unsuitable for WEF	
development. More potentially	
environmentally sustainable energy	
generation options can then be	
considered such as possibly solar PV.	