# **Economic Commission for Europe**

**Inland Transport Committee** 

**Working Party on the Transport of Dangerous Goods** 

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods Bern, 13–17 March 2017 Item 2 of the provisional agenda Tanks

**20 February 2017** 

# Tanks: Informal Working Group on the inspection and certification of tanks

## Transmitted by the Government of the United Kingdom

# **Summary**

- 1. ECE/TRANS/WP.15/AC.1/2017/22, the report of the informal working group on the inspection and certification of tanks, gave notice of the Group's intention to submit an information paper presenting the results from a questionnaire. It was used to gather information on how contracting states/parties authorise bodies or approve experts for tank inspection and certification purposes, the controls placed on their activities and how their activities are monitored.
- 2. The informal working group is grateful to all of the competent authorities who were able to complete the questionnaire. They were sufficient in number to demonstrate that Contracting Parties and States do not yet have a common approach in these areas. Some commentary is provided against the numerical results in the following pages.
- 3. Subject to the Joint Meeting agreeing that a more common approach to tank inspection and certification is desirable, the informal working group will continue with its attempts to improve the situation.

# QUESTIONNAIRE ON TANK INSPECTION

RID/ADR requires that tanks are constructed to an approved design. They must be inspected and tested before entering service for the first time and at intervals thereafter, by an expert approved by the competent authority or its authorised body. Following a decision of the RID/ADR informal working group on the inspection and certification of tanks, this survey has been prepared by the competent authority of the United Kingdom in order to gather information on how contracting states/parties authorise bodies or approve experts for this purpose, what controls are placed on their activities and how they are monitored.

The following questions concern the arrangements that exist in participating countries for examining and certifying just those tanks covered by RID/ADR Chapter 6.8, EXCLUDING battery wagons, battery vehicles, MEGCs and TPED tanks. The questionnaire does not concern the inspection of tanks constructed in accordance with Chapters 6.7, 6.9 or 6.10, nor the vehicles which tanks are mounted on.

Those familiar with the questionnaire will have noted that certain explanatory text such as additional remarks, have been excluded from the analysis where it might be used to identify individual countries.

- 1. Name of person responding:
- 2. Email:
- 3. Responding on behalf of the competent authority of (country):
- 4. Which government department or agency is your national competent authority responsible for inspecting and certifying chapter 6.8 tanks or approving bodies to inspect and certify them under?
  - a ADR
  - b RID

#### **PART 1. - INSPECTION**

- 5. Who is permitted to assess the conformity of tanks in your country?
  - a) The national competent authority or another government agency

Yes 4 No 9 No reply 4

b) Inspection bodies approved by the national competent authority

Yes 15 No 2 No reply 0

c) Inspection bodies approved by the competent authority of another country

Yes 4 No 8 No reply 5

d) Some other body

Yes 1 n/a 1 No reply 15

#### **Commentary**

Few national competent authorities perform conformity assessment themselves and in most cases it is delegated to inspection bodies (IBs) the competent authority has itself approved. Almost half the respondees do not permit conformity assessment to be done in their country by IBs approved only by another country but a small number do recognise such IBs, perhaps because no suitable nationally approved body is available. For some this recognition is confined to the assessment of Rail Wagons.

6. Who is permitted to perform the initial inspection of new tanks in your country?

	a)	The national competent authority or another government agency											
			Yes	3	No	10	No rep	oly	4				
	b)	Inspection be	odies a	pproved	by the	nation	al comp	etent a	authorit	y			
			Yes	16	No	1							
	c)	Inspection bo	odies a	pproved	l by the	compe	etent aut	hority	of anot	her country			
	d)	Some other b	Yes& oody	:No	1	Yes	4	No	8	No reply	4		
			Yes	1	No re	ply	16						
Com	ment	ary:											
nation	al comved by	tion is almost petent authorianother count	ty. As	mall nu almost l	mber o	f count hose re	ries allo espondir	ow this ng do r	task to not do th	be done by II			
7.		is permitted t	-	_		-				•			
	a)	The national	•	tent aut	•		her gove	ernmei	nt agenc	су			
			Yes	3	No	12	No rep	. •	2				
	b)	Inspection bo	odies a	pproved	l by the	nation	al comp	etent a	authorit	y			
			Yes	16	No	1							
	c)	Inspection bo	odies a	pproved	l by the	compe	etent aut	hority	of anot	her country			
	d)	Some other b	Yes& oody (p		1 ovide o	Yes details	3 below)	No	11	No reply	2		
			Yes	2	n/a	1	No rep	oly	14				
8.	Who	is permitted t	o perf	orm int	ermed	iate ins	spection	is of ta	anks in	your country	y?		
	a)	The national	compe	tent aut	hority	or anot	her gove	ernmei	nt agenc	cy			
			Yes	3	No	10	No rep	oly	4				
	b)	Inspection bo	odies a <sub>l</sub>	pproved	by the	nation	al comp	etent a	authorit	y			
			Yes	15	No	1	No rep	oly	1				
	c)	Inspection bo	odies a <sub>l</sub>	pproved	by the	compe	etent aut	hority	of anot	her country			
			Yes&	:No	1	Yes	3	No	9	No reply	4		
	d)	Some other b	ody										
	u)	Some other t	Yes	2	n/a	1	No rep	alv.	14				
9.		Who is nor					•			ks to in you	ır		
count	ry?	who is per	mnueu	to per	101111	ехсери	ionai Ci	HECKS	on tan	iks to in you	11		
		The national	compa	tent aut	hority (	or anot	her gove	ernmei	nt ageno	ev			
	a)	The national	compc	tone aa			0			. 5			
	a)	The national	Yes	5	No	9	No rep		3				
	<ul><li>a)</li><li>b)</li></ul>	Inspection bo	Yes	5	No	9	No rep	oly	3				

c)

d)

**Commentary:** 

**Commentary:** 

10.			_	_			_	-	meet in order	to
be ap	a)	d by your con  Must have a	-		•	-	•	ir cou	ntry:	
	a)	wiust nave a	•	14	•	1	No reply	2		
	b)	Must be acc						2		
	U)	widst be acc	Yes&		1	Yes	10 No	2	No reply	4
	c)	Must be aud						2	No Tepty	4
			Yes	7	No	5	No reply	5		
	D9	Must meet s	ome oth	er req	uireme	nt				
		[Exc]	luded fo	r the p	urpose	this an	alysis only]			
Com	ment	tary:								
The m	najority ement al com et tank	s of that standa petent authori s.	t authori ard; othe ties seer	ties re ers aud n to in	quire II lit IBs t npose n	B's to b hemsel o form	e accredited t ves to assess of supervision	o ISO their con on bo	17020 or at lead ompetence. A stodies they have	ast meet the b few do both. e approved to
The mare required Several inspectation 11.	najority ement al com et tank  Do y	y of competents of that stands petent authories.  ou publish a	t authoriard; other ties seen	ties re ers aud n to in	quire II lit IBs t npose n	B's to b hemsel o form	e accredited t ves to assess of supervision	o ISO their con on bo	17020 or at lea	ast meet the b few do both. e approved to
The mare required Several inspectation 11.	najority ement al com et tank  Do y	y of competents of that stands petent authoriss.	t authoriard; other ties seen	ties re ers aud n to in	quire II lit IBs t npose n	B's to b hemsel o form	e accredited t ves to assess of supervision	o ISO their con on bo	17020 or at lead ompetence. A stodies they have	ast meet the befew do both. e approved to
The m requirement Several inspection of the control	najority ement al com et tank  Do y y tank  If yo	y of competents of that stands petent authories. ou publish ass in your cou	t authoriand; other ties seen list of to the try? Yes ist of in	ties reers aud m to in he ins	equire II dit IBs to a pose in the pection of the p	B's to be themsels to form bodie	e accredited to ves to assess to assess to assess to of supervisions who are ap	o ISO cheir co n on bo	17020 or at lead ompetence. A stodies they have	ast meet the befew do both. e approved to

With one exception, lists of approved inspection bodies are published on the internet.

Inspection bodies approved by the competent authority of another country

Yes

4

16

No

No reply

3

1

No reply

Yes&No

Yes 1

Some other body

# PART 2. ISSUING CERTIFICATES

13.

Who issues certificates of type approval in your country?

	a)	The national	compe	tent aut	hority	or anotl	ner gov	ernmer	nt agenc	y	
	b)	Inspection bo	Yes& odies ap		1 I by the	Yes nation	3 al comp	No etent a	8 authority	No reply	5
			Yes	15	No	2					
	c)	Some other b	ody (p	lease p	rovide o	details b	pelow)				
Com	menta	ary:									
bodie: certifi	s. In se	es the issue of everal countrie competent author	s, proc	edures	differ	depend	ing on	tank ty	ype, e.g	tank-vehic	les
14.	Who	issues certific	ates of	initial	inspec	tion in	your co	ountry	?		
	a)	The national	compe	tent aut	hority	or anotl	ner gov	ernmer	nt agenc	y	
			Yes	2	No	10	No rep	oly	5		
	b)	Inspection bo	dies ap	proved	l by the	nation	al comp	etent a	uthority	y	
			Yes	16	No re	ply	1				
	c)	Some other b	ody (p	lease pi	rovide o	details b	pelow)				
15.	Who	issues certific	ates of	period	lic insp	ection	in your	count	ry?		
	a)	The national	compe	tent aut	hority	or anoth	ner gov	ernmer	nt agenc	y	
			Yes	1	No	10	No rep	oly	6		
	b)	Inspection bo	dies ap	proved	l by the	nation	al comp	etent a	uthority	y	
			Yes	16	No	1					
	c)	Some other b	ody (p	lease p	rovide o	details b	pelow)				
			Yes	1	n.a;	2	No rep	oly	14		
16.	Who	issues certifica	ates of	intern	ediate	inspec	tion in	your c	ountry	?	
	a)	The national	compe	tent aut	hority	or anoth	ner gove	ernmer	it agenc	У	
			Yes	2	No	10	No rep	oly	5		
	b)	Inspection bo	dies ap	proved	l by the	nation	al comp	etent a	uthority	y	
			Yes	16	No re	ply	1				
	c)	Some other b	ody (p	lease pi	rovide o	details b	pelow)				
			Yes	1	n.a:	2	No rep	oly	14		
17.	Who	issues certifica	ates fo	llowing	g an exc	ception	al chec	k in yo	our cou	ntry?	
	a)	The national	compe	tent aut	hority	or anoth	ner gove	ernmer	it agenc	у	
			Yes	2	No	10	No rep	oly	5		

	b)	Inspection b	odies a	pprove	ed by the	natio	nal con	npetent	author	ity	
			Yes	16	No rep	oly	1				
	c)	Some other	body (p	lease j	provide d	letails	below	)			
			Yes:	1	No rep	oly	16				
Con	ımen	tary:									
excep differ conta inspe- by the	otional deper iners t ct tank e forei	one case, cer checks are issu- nding on tank by IBs. Severa s in their coun- gn competent a	ied by a type, o al comp try will authorit	pprove e.g. ta etent issue	ed inspec nk-vehic authoritic their owr	tion be les ce es whe natio	odies. I rtified o allov nal cei	In severaby conversely to the several	al cour npeten an insp s, base	ntries, proced t authority, pection bodie	lures tank es to
PAR	RT 3.	- STATIST	ICS								
18. issued	d in tl	you gather sta ne name of yo									
boun	.5•		Yes&	ιNo	1	Yes	6	No	8	No reply	
If the	answ	<del>er to Questio</del> i	n 18 is l	VO. sk	<del>cin to O</del> u	estio	<del>1 21</del>				
19.		are your stat			_						
	a)	Data is reco				ase wł	neneve	r a certi	ficate i	is issued	
	b)	Annroyad is	Yes	3 on bodi	No	5 lo stat	No r		9 mpoto	nt authority:	
	U)		Yes	5	No	2	No r	eply	10	•	
		If the answe			is yes, ho nonths	w ofte	en is th No r		rovide 12	ed	
	c)	Data is gath	ered by	anoth		d (plea	ase pro	vide de	tails)	]	
Con	ımen	tary:									
under annua that d time o	their al repo lata is	ew countries a authority. Of t at made by eac only kept by the se of inspections.	hose the h inspect neir app	at do, ction b roved	the most ody. Sev bodies. T	comn eral o hree	non me f the co	eans of pompeten auth	gatheri t autho norities	ing data is vi orities have n s maintain a	a an oted real-
20. opera		roximately ho inder your ap			ificates <sub>]</sub>	per ye	ar are	issued	by yo	u and by bo	dies
	a)	ADR type a	pproval					RID	type a <sub>l</sub>	pproval	
	b)	ADR initial	inspect	ion				RID	initial	inspection	
	c)	ADR intern	11					D.I.D.		ediate inspec	

d) ADR periodic inspection

RID periodic inspection

e) ADR exceptional check

RID exceptional check

#### **Commentary:**

Only 6 countries were able to indicate the number of certificates issued under their authority. Total numbers range between a few hundred and many thousands. Some data appears unreliable, e.g. one country claims to issue over 10,000 RID initial inspection certificates a year.

- 21. How many people are authorised to operate as tank inspectors under the approval of your national competent authorities:
  - a) for ADR tanks?
  - b) for RID tanks?

#### **Commentary:**

Responses to this question indicate that a significant number of competent authorities do not know how many persons are inspecting tanks under their authority. Several responses suggest that only the number of approved bodies is known, and consequently it is not possible to estimate whether resourcing is reasonable for the number of tanks inspected. Where the number of inspectors has been given, it can, in most cases, be reconciled with the number of tanks inspected. However, in one case, the data provided suggests that each inspector would need to examine more than 10 tanks per week which some would consider unlikely.

22. Are any of these inspectors allowed to inspect tanks at locations beyond your national borders?

Yes 10 No 3 No reply 4

#### **Commentary:**

A significant number of countries allow their inspectors to operate beyond national borders despite the lack of information about them. One competent authority will permit inspection beyond their national border only of tanks that are registered in their country.

#### **PART 4. - RECOGNITION**

- 23. If a NEW Chapter 6.8 tank is constructed in another country and mounted on a road vehicle that is to be registered and operated in your country, what would you accept as evidence of its type approval and initial inspection?
  - a) Certificates issued by your national competent authority or a body approved by them
    Yes 12 No 2 No reply 3
  - b) Certificates issued by or on behalf of the competent authority of the country the tank was built in, providing it is an EU or EEA member state

Yes 10 No 4 No reply 3

c) Certificates issued by or on behalf of the competent authority of the country the tank was built in, if it is an ADR contracting party, even if it is not an EU or EEA member state.

Yes 10 No 3 No reply 4

d)

	e)	Certificates is					ADR compete	ent authority even if it was not the
		etent authority						
	-			5	No	7	No reply	5
Com	menta	ary:						
behalf party. small countr tank is	of the Three on number y in what construction a third	country in who countries will r of countries nich the tank is nucted in a nor	only ac accept s constr n-ADR	e tank i ecept ce t certifi ructed ( country	s const ertificated icates it a third y. It is	ructed, es issue ssued t party) a assume	providing it in the providing it is and the provided and this is like and that the countries is the countries in the countrie	ficates issued by or on s an ADR contracting hey have approved. A ountry other than the ly to happen when the untries who would not r own approved bodies
	other c		be imp	orted	and re	gistere	d your coun	ch has been in service try, what would you
	a) by the		ssued b	y your	nation	al comp	etent authorit	ty or a body approved
			Yes	11	No	2	No reply	4
	b) the tan	Certificates is ak was built in		-			-	thority of the country te
			Yes	12	No	3	No reply	2
				-			-	athority of the country it is not an EU or EEA
			Yes	10	No	3	No reply	4
								athority of the country a if it is not a formally
			Yes	1	No	10	No reply	6
	e) was no	Certificates is of the compete						ent authority even if it ill in
			Yes	5	No	6	No reply	6
Com	menta	ary:						
CD1	,	C .1	1.	*11			. 11 /1	

Certificates issued by or on behalf of the competent authority of the country the tank was

built in, if it is known to be applying ADR, even if it is not a formally contracting party

## Coı

The majority of those responding will accept certificates issued by the country in which the tank had previously been in service providing it is an ADR contracting party. Two countries require imported used tanks to be certified by a body approved by them, although in one case, certification may be based upon an existing foreign certificate.

count	ry?								
	a)	Certificates is	ssued b	y your i	nationa	l comp	etent authority	or a bo	dy approved by them
			Yes	14	No	1	No reply	2	
	b) built ii	Certificates is n, providing it		-			•	nority of	the country the tank was
			Yes	4	No	8	No reply	5	
	c) built ii								The country the tank was A member state.
			Yes	4	No	8	No reply	5	
	d) built ii								the country the tank was contracting party
			Yes	0	No	12	No reply	5	
	e)	Certificates is	ssued by	y or on	behalf	of any	ADR compete	nt autho	ority
			Yes	3	No	9	No reply	5	
Most countrissued	y to be by an	e responding certified by a	body ap contract	pproved	d by the	em. A s	small number vaccept certific	will acce	stered in their ept certificates sued by non-
26.							ce of the perio wagons based		intermediate r country?
	a)	Certificates is	ssued by	y your i	nationa	l comp	etent authority	or a bo	dy approved by them
			Yes	11	No		No rep	oly	6
	b) built ii	Certificates is n, providing it		-			•	nority of	the country the tank was
			Yes	8	No	1	No reply	8	
	c) built ii								the country the tank was member state.
			Yes	8	No	1	No reply	8	
	d) built ii								the country the tank was ontracting party
			Yes	1	No	7	No reply	9	
	e)	Certificates is	ssued by	y or on	behalf	of any	RID competer	nt author	rity
			Yes	5	No	3	No reply	9	

Which of the following do you accept as evidence of the periodic and intermediate

inspection of Chapter 6.8 tanks that are mounted on road vehicles registered in your

25.

## **Commentary:**

if:

For the in-service inspection of rail tanks, there is a wider recognition of certificates issued by or on behalf of another RID contracting state. One country will also accept certificates issued by countries who are not RID contracting states but are known to be applying ADR.

27. Can an inspection body that has been approved by another competent authority, but not your national competent authority, examine and certify tanks in your country

#### PART 5. OPERATION BEYOND NATIONAL BOUNDRIES

	Yes&No	1	Yes	3	No 1	1 No reply	2
b) Т	The tanks are to be	expor	ted to the	e cour	ntry that app	proved the inspe	ction bod
	Yes	9	No	5	No repl	y 3	
	The tanks are ADF not the country t					•	e. a coun
	Yes	7	No	6	No reply	y 4	
	The tanks are RID s not the country t				-	•	e. a coun
	***	_		_	No repl	0	

## **Commentary:**

Most competent authorities would not accept foreign approved IBs examining and certifying tanks based or registered in their country. Several have commented that there is no legal basis for permitting this. There appears to be greater acceptance where the foreign IB inspects new tanks that are to be exported and when that happens competent authorities would not normally be aware of it.

28. Does your national competent authority approval allow an inspection body to examine and certify the following tanks in another RID/ADR country?

a)	ADR Chapter 6.8 road tanks?										
	Yes	11	No	3	No reply	3					
b)	RID Chapter 6.8 ra	il tank	s?								
	Yes	7	No	4	No reply	6					

## **Commentary:**

Most countries who allow this apply certain restrictions, e.g. only for nationally registered tanks, or only when certification is issued and signed in the home country. Several countries neither specifically permit nor forbid their approved bodies from operating beyond national boundaries and it is assumed in those cases that no rules apply to such bodies.

	a)	ADR Chapter	6.8 roa	ad tank	s?						
				8	No	4	No rep	oly	5		
	b)	RID Chapter									
			Yes	4	No	4	No rep	oly	9		
Com	menta	ary:									
in non-	-RID/A	from the respo DR countries or service in a	as this v	vould a	ppear t	o be neo	cessary	when to		-	
30. perfor by:	-	r national co al inspection	_		-				_	-	
	a) countr	Inspectors emy where inspec				ed bod	y and b	ased in	your c	country, who	travel to the
			Yes	11	No	1	No rep	oly	5		
	b) inspec	Inspectors ention takes plac		directl	y by th	e appro	oved bo	dy and	based i	n the country	where
			Yes	8	No	2	No rep	oly	7		
	c) wholly	An inspection owned subside	-			-	vhere ir	nspection	on take	s place, which	h is a branch or
			Yes	5	No	5	No rep	oly	7		
	d) same g	An inspection group as the ap								s place and is	part of the
			Yes	4	No	6	No rep	oly	7		
	e) compe	An inspection tent authority	•						-	ut is approved	d by the
			Yes&N	No	1	Yes	3	No	6	No reply	7
	f) approv	A tank manuf red body?	acturer'	's in-ho	ouse ins	pection	service	e if they	y are co	onsidered con	npetent by the
			Yes	1	No	9	No rep	oly	7		
31. perfor done k	m initi	r national co al inspection									
	a) countr	Inspectors emy where inspec	ction tal	kes pla	ce?	_	-			ountry, who	travel to the
	b) inspect	Inspectors em		9 directl	No y by th	2 e appro	No repoved boo		6 based i	n the country	where
	c)	•	Yes body b				No rep where ir	•	6 on take	s place, which	h is a branch or

 $29.\,\,$  Does your national competent authority approval allow an inspection body to examine and certify the following tanks in a NON - RID/ADR country?

			Yes	3	No	8	No reply	J	6		
	d)	An inspection								ace and is na	art of the
		group as the a								ice una is pe	ar or the
	same g	group as the t	Yes	a coaj	No	11	No reply		6		
	e)	An inspection		which						approved b	v the
		tent authority								пррточес о	<i>j</i> 1110
	P	•	Yes		No	11	No reply	_	6		
	f)	A tank manu		er's in-h						dered compo	etent by the
		ved body?				· F			,	г	
	TI		Yes		No	11	No reply	<i>y</i>	6		
Com	menta	ary:									
Tri			1	•	4 1	1.111.1	1: CC	1			
		s to this and the									
		inspection be	•							_	
		ployed by the									
		where inspe									
		ency based in									
_	_	spection in th					_				
		sidiary of the									
		acting which	comp	etent au	ıthoritie	es are	content to	o allo	ow when i	nspections	
undert	taken in	their name.									
32.	What	steps would	d von	avnact	an an	nrovo	d increcti	ion h	ody choul	d take to	
		competence									
		ction takes p			_			-		-	
		question, eve									
		question, eve tion bodies)	en n yo	ou uo n	ot pern	ու арұ	proved bo	uies	to use the s	services of	
iocai	mspec										
	a)	The local bo	ody mus	st be acc	credited	to ISC			type of tan	k to be insp	ected
			Yes	13	No		No reply	y	4		
	b)	The local bo	dy mus	st be acc	credited	to ISC	17025				
			Yes	6	No	5	No reply	/	6		
	c)	The local bo	dy mus	st be au	dited an	nually	by the nat	tional	accreditati	on body as	part of the
	approv	ed inspection	n body'	s accre	ditation	proces	SS				
		_	Yes	11	No	2	No reply	7	4		
	d)	Local body	must be	e audite	d annua	lly by			spection bo	ody	
	,	J	Yes	10	No	, ,	No reply		7	,	
	e)	By another i	method	(please	provide	e detai					
	-/		n/a	1	No rep		16				
			11/4	-	11010	P-7	10				
~											
Com	menta	ary:									
		ntries believe									
		e number tha					-				
countr	y (Q.10	)). A substan	tial nur	nber of	countri	es beli	eve the lo	cal bo	ody should	be audited	
1 41	4:	al agamaditati	1	l	£ 41.		arrad inama		hodry's so		

## Co

Thi mor cou by the national accreditation body as part of the approved inspection body's accreditation process, which is the practice currently required under 1.8.6.4.1, but only for tanks carrying substances for which Special Provisions TA4 and TT9 of Chapter 6.8 apply.

If the local body is accredited to ISO 17020, do you believe the cross-border accreditation rules should apply?

> Yes 13 No No reply

# **Commentary:**

Cross border accreditation rules are in many cases necessary by virtue of the mutual recognition agreements between various national accreditation bodies

Note:

1. n/a means not applicable