



# Technical Circular

No.: 023/2015

Date: 5<sup>th</sup> August 2015

**To Whomsoever it may concern**

**Subject: IRS performance under PSC MOUs**

IRS publishes the annual Port State Control (PSC) report every year, which summarizes the deficiencies identified during Port State Control inspections carried out in the previous year in various countries around the world, which are members of the various MOUs.

The objective of the Annual report is to provide awareness of the state of Port State Control inspections, as well as, improve further maintenance and surveys based upon the analysis of the data.

Performance of the Classification Society, as a Recognized Organization (RO), is measured and published by each MOU, which is considered as one of the many parameters, for deciding future inspections of the vessels / frequency of inspections when the vessel visits in the region of the particular MOU to conduct Port State Control inspections.

During the calendar year 2015, total number of 11 vessels classed with us have been detained till date under Tokyo, Paris and USCG and other MOUs, compared to 9 vessels detained last year (2014), which is a cause of concern.

IRS safety performance, as published by USCG, Tokyo and Paris MOU has been detailed in Annual Report and is also mentioned below for your immediate reference :

**SAFETY COMPLIANCE OF IRS UNDER USCG**

Period Year	Distinct Vessel Arrivals	RO RELATED DETENTIONS	RATIO *	Points / Priority assigned to IRS
2010-2012	73	0	0.00%	0
2011-2013	75	0	0.00%	0
2012-2014	xx	0	0.00%	0

\*Detention rate of less than 0.5% indicates 0 points.



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. While we have taken utmost care to be as factual as possible, readers/ users are advised to verify the exact text and content of the Regulation from the original source/ issuing Authority.

All IACS societies including IRS have a detention ratio of less than 0.5% and have been placed under zero point Category for the periods 2010-2012 and 2011-2013. {copy attached as Annex 1(a) and Annex 1(b)}. The data for the period 2012-2014 is yet to be published; however, IRS has zero detentions during this period.

**PERFORMANCE OF IRS UNDER TOKYO MOU**

<b>Period Year</b>	<b>No. of overall inspecti ons</b>	<b>No. of RO responsible detentions</b>	<b>Low/m edium Limit</b>	<b>Medium/high Limit</b>	<b>Excess factor</b>	<b>IRS Performance</b>
<b>2010-2012</b>	340	0	12	2	-0.95	<b>High</b>
<b>2011-2013</b>	324	0	11	2	-0.90	<b>High</b>
<b>2012-2014</b>	283	0	10	1	-0.75	<b>High</b>

Except CRS, all IACS societies including IRS have been listed as “High” performance for the period 2010-2012, 2011-2013 and 2012-2014. It may be noted that IRS has Zero RO related detentions for the periods 2010-2012, 2011-2013 and 2012-2014, whereas other societies have RO related detentions for this period. {copy attached as Annex 2(a), Annex 2(b) and Annex 2(c)}.

It may be noted that though the other societies have RO related detentions compared to IRS, which has zero RO related detentions, but still they are rated under High Performance list, which is due to the fact that number of vessels visiting in the Tokyo MOU Region are high and thus the number of inspections also, as referred in the standard formula specified by Tokyo MOU stated below, when calculating the performance.

$$u_{\text{low to medium}} = N.p + 0.5 + z\sqrt{(N.p.(1 - p))}$$

$$u_{\text{medium to high}} = N.p - 0.5 - z\sqrt{(N.p.(1 - p))}$$

In the above formula :

- 1) “N” is the number of inspections,
- 2) “p” is the allowable detention limit (yardstick), set to 2% by the Tokyo MoU Port State Control Committee,
- 3) “z” is the significance requested (z=1.645 for a statistically acceptable certainty level of 95%).
- 4) The result “u” is the allowed number of detentions for either the low or high list.

## PERFORMANCE OF IRS UNDER PARIS MOU

Period	Inspections	Detentions	Low/Medium limit	Medium/High limit	Excess Factor	IRS Performance
2010-2012	109	0	5	0	0.12	Medium
2011-2013	99	0	5	0	0.15	Medium
2012-2014	73	0	4	0	0.20	Medium

All IACS societies, except CRS and IRS, have been rated in the high performance list. CRS and IRS have been listed as Medium performance list for the period 2010-2012, 2011-2013 and 2012-2014. {copy attached as Annex 3(a), Annex 3(b) and Annex 3(c)}.

Paris MOU and Tokyo MOU use the same formula to determine the performance of ROs. Paris MOU calculates the performance using standard formula stated below for statistical calculations in which certain values have been fixed in accordance with agreed Paris MoU policy. The calculation methodology is based on central limit theorem and is therefore only accurate if the number of inspection (N) is sufficiently large. For relatively small N the calculation does not work well.

$$u_{\text{low to medium}} = N.p + 0.5 + z\sqrt{(N.p.(1-p))}$$

$$u_{\text{medium to high}} = N.p - 0.5 - z\sqrt{(N.p.(1-p))}$$

In the above formula :

“N” is the number of inspections,

“p” is the allowable detention limit (yardstick), set to 2% by the Paris MoU Port State Control Committee,

“z” is the significance requested (z=1.645 for a statistically acceptable certainty level of 95%).

The result “u” is the allowed number of detentions for either the low or high list.

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For example :

Calculation for R.O (Indian Register of shipping) performance shown as Medium in PARIS MOU for 3 years block period 2012-2014:

N=Number of Inspections=73

P=allowable detention limit (yard stick)=0.02

Z=significance requested (for a statistically acceptability certainty level of 95%) = 1.645

U= allowable number of detentions for either the low or high limit

Detentions= 0

$$1) U_{\text{low to medium}} = N.p + 0.5 + z. (\text{SQRT}[N.p.(1-p)])$$

$$U_{\text{low to medium}} = (73).(0.02) + 0.5 + (1.645).(SQRT[(73).(0.02).(1-0.02)])$$

$$U_{\text{low to medium}} = 3.9276$$

$$2) U_{\text{medium to high}} = N.p - 0.5 - z. (\text{SQRT}[N.p.(1-p)])$$

$$U_{\text{medium to high}} = (73).(0.02) - 0.5 - (1.645).(SQRT[(73).(0.02).(1-0.02)])$$

$$U_{\text{medium to high}} = -1.0076$$

3) To determine the excess factor the following formula is used:

$$EF = (\text{Detentions} - \text{high to medium limit}) / (\text{medium to low limit} - \text{high to medium limit})$$

$$EF = (0 - (-1.0076)) / (3.9276 - (-1.0076)) = 0.2$$

The excess factor (EF) concept is introduced to compare the performance between ROs. An RO with EF = 0 & below, is placed on the High Performance while EF=1 & higher, is placed on the Low Performance. ROs having EF between 0 & 1 have been listed on the Medium Performance.

For block year 2010-12 number of total inspection under IRS Class is 109 with excess factor of 0.12, similarly for block year 2011-13 number of total inspections have been 99 with excess factor of 0.15 and for block year 2012-14 number of inspections have been 73 with excess factor of 0.20. As can be seen the excess factor is increasing when the number of total inspections have reduced over 3 block periods with number of detentions as well as RO related detentions remaining “zero” for all cases.

Thus even with “zero” detention, possibility of getting into “High” performance grade depends on excess factor dipping below “zero” which can only be possible if the number of PSC inspections under Paris MOU for IRS vessels becoming sufficiently large, which is not under the control of IRS.

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Thus technically IRS performance has been satisfactory; the grading “Medium” is only based on the formula used.

In this regard, it is noteworthy that all Recognized Organizations, whose performance level is rated “High” have had total number of inspections exceeding 450 each year. In such scenario, even if there are detentions, these Recognized Organizations continue to remain under “High” rating.

It was felt that the formula for statistical calculations adopted by Paris MOU needs to be reworked, in order to give realistic rating of IRS performance. The matter has been taken up by IRS and is being continuously persuaded with Paris MOU authorities for reconsideration and Paris MOU Advisory Board (MAB) have responded positively stating that time has come to evaluate the progress made since the introduction of New Inspection Regime in 2011 to seek areas of improvement and adjust same where necessary.

IRS considers Port State detentions of IRS classed ships as serious deficiency of our service, especially when it involves items related to statutory certificates issued and endorsed on behalf of flag administration. All such cases of detentions are followed up for necessary corrective and preventive actions.

PSC inspection procedures have been improved over a period of time to cover not only ships hardware or documents; but also operational requirements of the relevant conventions or shipboard maintenance under ISM Code and Seafarers working and living conditions under MLC.

Also because new conventions such as MLC have come into force, the extents of PSC inspections have been further increased.

In the light of this background and due to increased number of detentions during the year 2015, IRS intends to conduct a Seminar in the month of August 2015 to make Shipowners/Managers/Seafarers aware of actions to be taken so as to prevent future detentions of our classed ships.

**Enclosure:**

- 1) Annex 1.
- 2) Annex 2.
- 3) Annex 3.

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## Recognized Organization Safety Compliance Performance

The following guidelines explain point assignment (Points Column below) as they relate to detention ratios:

A detention ratio less than 0.5%	<b>0 points</b>
A detention ratio equal to 0.5% or less than 1%	<b>3 points</b>
A detention ratio equal to 1% or less than 2%	<b>5 points</b>
A detention ratio equal to or greater than 2%	<b>Priority 1</b>

Recognized Organization (RO)	Abbreviation	Distinct Vessel Arrivals				RO-Related Detentions				Ratio
		2010	2011	2012	Total	2010	2011	2012	Total	
American Bureau of Shipping	ABS	1,433	1,708	1,682	4,823	-	-	-	0	0.00%
Bulgarian Register of Shipping	BKR	3	1	1	5	-	-	-	0	0.00%
Bureau Veritas	BV	784	1,098	1,079	2,961	-	-	-	0	0.00%
China Classification Society	CCS	253	284	307	844	-	-	-	0	0.00%
China Corporation Register of Shipping	CR	5	9	3	17	-	-	-	0	0.00%
Croatian Register of Shipping	CRS	20	29	26	75	-	-	-	0	0.00%
Det Norske Veritas	DNV	1,679	2,175	2,298	6,152	-	-	-	0	0.00%
Germanischer Lloyd	GL	1,112	1,561	1,587	4,258	-	-	-	0	0.00%
Hellenic Register of Shipping	HRS	31	55	35	121	-	-	-	0	0.00%
Indian Register of Shipping	IRS	19	32	22	73	-	-	-	0	0.00%
International Register of Shipping	IROS	4	8	8	20	-	-	-	0	0.00%
Korean Register of Shipping	KRS	306	263	283	852	-	-	-	0	0.00%
Lloyd's Register	LR	1,626	2,275	2,295	6,196	1	-	-	1	0.02%
Nippon Kaiji Kyokai	NKK	2,195	2,009	2,537	6,741	1	-	-	1	0.01%
Panama Bureau of Shipping	PBS	3	8	8	19	-	-	-	0	0.00%
Panama Maritime Survey and Certification	PMSCS	-	1	-	1	-	-	-	0	0.00%
Panama Maritime Surveyors Bureau	PMS	1	-	1	2	-	-	-	0	0.00%
Panama Register Corporation	PRC	1	4	3	8	-	-	-	0	0.00%
Polski Rejestr Statkow	PRS	24	24	15	63	-	-	-	0	0.00%
Registro Italiano Navale	RINA	212	243	226	681	-	-	-	0	0.00%
Rinava Portuguesa	RP	-	4	3	7	-	-	-	0	0.00%
Russian Maritime Register of Shipping	RS	110	89	73	272	-	-	-	0	0.00%
Turk Loydu	TL	1	-	-	1	-	-	-	0	0.00%
Vietnam Register	VR	4	6	3	13	-	-	-	0	0.00%
Panama Maritime Documentation Service	PMDS	18	23	26	67	-	-	1	0	1.49%
Compania Nacional de Registro y Inspecciones de Naves	CNRIN	2	4	2	8	1	1	-	2	25.00%
Dromon Bureau of Shipping	DBS	-	1	-	1	-	1	-	1	100.00%
Horizon International Naval Survey and Inspection Bureau	HNS	8	3	9	20	-	-	1	1	5.00%
Intermaritime Certification Services	IMC	6	16	15	37	1	-	-	1	2.70%
International Naval Surveys Bureau	INSB	2	4	2	8	1	-	-	1	12.50%
Isthmus Bureau of Shipping	IBS	12	12	12	36	1	-	-	1	2.78%
National Shipping Adjusters Inc	NASHA	-	1	-	1	-	1	-	1	100.00%
Tsunami Marine Limited	TML	7	-	-	7	2	-	-	2	28.57%
Universal Shipping Bureau	USB	1	5	3	9	1	-	-	1	11.11%
VG Register of Shipping	VGRS	1	4	4	9	1	1	-	2	22.22%

## Recognized Organization Safety Compliance Performance

The following guidelines explain point assignment (Points Column below) as they relate to detention ratios:

A detention ratio less than 0.5%	<b>0 points</b>
A detention ratio equal to 0.5% or less than 1%	<b>3 points</b>
A detention ratio equal to 1% or less than 2%	<b>5 points</b>
A detention ratio equal to or greater than 2%	<b>Priority 1</b>

Recognized Organization (RO)	Abbreviation	Vessel Examinations <sup>1</sup>				RO-Related Detentions				
		2011	2012	2013	Total	2011	2012	2013	Total	Ratio
American Bureau of Shipping	ABS	1,908	1,816	1,833	5,557	-	-	-	0	0.00%
Bulgarian Register of Shipping	BKR		1		1	-	-	-	0	0.00%
Bureau Veritas	BV	1,337	1,229	1,331	3,897	-	-	-	0	0.00%
China Classification Society	CCS	280	281	278	839	-	-	-	0	0.00%
China Corporation Register of Shipping	CR	10	2	3	15	-	-	-	0	0.00%
Croatian Register of Shipping	CRS	38	35	17	90	-	-	-	0	0.00%
Det Norske Veritas	DNV	2,536	2,507	2,510	7,553	-	-	-	0	0.00%
Germanischer Lloyd	GL	1,845	1,767	1,538	5,150	-	-	-	0	0.00%
Hellenic Register of Shipping	HRS	55	41	5	101	-	-	-	0	0.00%
Indian Register of Shipping	IRS	37	22	16	75	-	-	-	0	0.00%
International Naval Surveys Bureau	INSB	8	10	18	36	-	-	-	0	0.00%
International Register of Shipping	IROS	19	10	14	43	-	-	-	0	0.00%
Isthmus Bureau of Shipping	IBS	9	16	17	42	-	-	-	0	0.00%
Korean Register of Shipping	KRS	300	300	353	953	-	-	-	0	0.00%
Lloyd's Register	LR	2,742	2,566	2,539	7,847	-	-	-	0	0.00%
Nippon Kaiji Kyokai	NKK	2,128	2,575	2,580	7,283	-	-	1	1	0.01%
Panama Bureau of Shipping	PBS	10	9	7	26	-	-	-	0	0.00%
Panama Maritime Survey and Certification	PMSCS	3			3	-	-	-	0	0.00%
Panama Maritime Surveyors Bureau	PMS		2	4	6	-	-	-	0	0.00%
Panama Register Corporation	PRC	7	3	4	14	-	-	-	0	0.00%
Polski Rejestr Statkow	PRS	26	18	29	73	-	-	-	0	0.00%
Registro Italiano Navale	RINA	290	256	313	859	-	-	-	0	0.00%
Rinava Portuguesa	RP	5	2		7	-	-	-	0	0.00%
Russian Maritime Register of Shipping	RS	118	99	80	297	-	-	-	0	0.00%
Universal Shipping Bureau	USB	6	2	13	21	-	-	-	0	0.00%
Vietnam Register	VR	4	2	2	8	-	-	-	0	0.00%
Panama Maritime Documentation Service	PMDS	79	101	64	244	-	1	-	0	0.41%
Intermaritime Certification Services	IMC	36	35	46	117	-	-	1	1	0.85%
Compania Nacional de Registro y Inspecciones de Naves	CNRIN	8	4	3	15	1	-	1	2	13.33%
Dromon Bureau of Shipping	DBS	3			3	1	-	-	1	33.33%
Horizon International Naval Survey and Inspection Bureau	HNS	9	15	4	28	-	1	-	1	3.57%
National Shipping Adjusters Inc	NASHA	4		32	36	1	-	1	2	5.56%
Tsunami Marine Limited	TML			13	13	-	-	1	1	7.69%
VG Register of Shipping	VGRS	13	13		26	1	-	-	1	3.85%

## MEMORANDUM OF UNDERSTANDING ON PORT STATE CONTROL IN THE ASIA-PACIFIC REGION

Table 12: PERFORMANCE OF RECOGNIZED ORGANIZATION

Recognized organization (RO)	No. of overall inspections 2010-2012	No. of RO responsible detentions 2010-2012	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
Union Bureau of Shipping	3,304	71	80	52	0.68	Medium
Croatian Register of Shipping	111	2	5	0	0.46	
International Ship Classification	917	15	26	11	0.28	
International Register of Shipping	1,203	20	33	16	0.26	
Global Marine Bureau	1,427	24	38	19	0.25	
Universal Maritime Bureau	1,006	16	28	12	0.24	
Maritime Technical Systems and Services	147	1	6	0	0.21	
Panama Bureau of Shipping	152	1	6	0	0.19	
Biro Klasifikasi Indonesia	296	3	10	1	0.17	
International Naval Surveys Bureau	179	1	7	0	0.14	
Panama Maritime Surveyors Bureau Inc	186	1	7	0	0.13	
Universal Shipping Bureau	260	2	9	1	0.12	
Korea Classification Society (former Joson Classification Society)	519	6	16	5	0.12	
Isthmus Bureau of Shipping	1,495	22	39	20	0.08	
INCLAMAR (Inspection y Classification Maritime, S. de. R.L.)	255	1	9	1	0.01	
Panama Shipping Registrar Inc.	514	4	16	5	-0.15	High
Overseas Marine Certification Services	871	9	25	10	-0.17	
Intermaritime Certification Services, S.A.	1,119	10	31	14	-0.47	
Vietnam Register	2,315	22	58	35	-0.64	
Panama Maritime Documentation Services	1,191	8	32	15	-0.77	
Indian Register of Shipping	340	0	12	2	-0.95	
China Corporation Register of Shipping	972	2	27	12	-1.46	
Russian Maritime Register of Shipping	1,572	4	41	22	-1.51	
Bureau Veritas	8,570	18	193	150	-1.74	
Germanischer Lloyd	9,036	19	203	158	-1.74	
American Bureau of Shipping	8,173	15	185	142	-1.77	
Nippon Kaiji Kyokai	26,000	52	558	482	-1.78	
Lloyd's Register	10,316	16	230	182	-1.81	
Det Norske Veritas	9,455	11	212	166	-1.85	



Recognized organization (RO)	No. of overall inspections 2010-2012	No. of RO responsible detentions 2010-2012	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
Registro Italiano Navale	1,951	1	50	28	-1.88	
China Classification Society	7,363	3	168	127	-1.94	
Korean Register of Shipping	7,531	3	171	130	-1.94	

- Note: 1) In this table, only recognized organizations (RO) that had more than 60 inspections are taken into account. The formula used is identical to the one used for the Black-Grey-White List. However, the values for P and Q are adjusted to P=2% and Q=1%.
- 2) ROs involving 60-179 inspections with zero detention are not included in this table.

Table 12: PERFORMANCE OF RECOGNIZED ORGANIZATION

Recognized organization (RO)	No. of overall inspections 2011-2013	No. of RO responsible detentions 2011-2013	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
SingClass International Pte Ltd	89	2	4	0	0.54	Medium
Sing-Lloyd	153	3	6	0	0.49	
Croatian Register of Shipping	110	1	5	0	0.29	
Panama Bureau of Shipping	110	1	5	0	0.29	
International Register of Shipping	1,048	17	29	13	0.25	
Korea Classification Society (former Josen Classification Society)	625	9	19	6	0.22	
International Ship Classification	854	13	24	10	0.22	
International Naval Surveys Bureau	153	1	6	0	0.19	
Universal Shipping Bureau	227	2	9	1	0.18	
Union Bureau of Shipping	3,132	52	76	49	0.10	
Biro Klasifikasi Indonesia	276	2	10	1	0.09	
Global Marine Bureau	1,370	20	36	18	0.09	
Universal Maritime Bureau	945	12	26	11	0.04	
Panama Shipping Registrar Inc.	411	3	13	3	-0.02	
Isthmus Bureau of Shipping	1,492	17	39	20	-0.28	
Overseas Marine Certification Services	911	8	26	11	-0.39	
Intermaritime Certification Services, S.A.	1,211	8	33	16	-0.79	
Indian Register of Shipping	324	0	11	2	-0.90	
Vietnam Register	2,438	15	61	37	-1.05	
Panama Maritime Documentation Services	1,340	5	36	18	-1.26	
China Corporation Register of Shipping	953	2	27	11	-1.44	
Russian Maritime Register of Shipping	1,462	2	39	20	-1.70	
Germanischer Lloyd	9,489	20	213	167	-1.74	
American Bureau of Shipping	9,118	14	205	160	-1.81	
Nippon Kaiji Kyokai	28,105	46	601	523	-1.82	
Bureau Veritas	9,417	13	211	165	-1.83	
Lloyd's Register	11,311	11	251	201	-1.88	
Det Norske Veritas	10,524	10	235	186	-1.88	
Registro Italiano Navale	2,239	1	56	33	-1.90	
Korean Register of Shipping	8,115	1	184	141	-1.98	

Recognized organization (RO)	No. of overall inspections 2011-2013	No. of RO responsible detentions 2011-2013	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
China Classification Society	8,126	1	184	141	-1.98	

- Note: 1) In this table, only recognized organizations (RO) that had more than 60 inspections are taken into account. The formula used is identical to the one used for the Black-Grey-White List. However, the values for P and Q are adjusted to P=2% and Q=1%.
- 2) ROs involving 60-179 inspections with zero detention are not included in this table.

*Note: The above table has been amended in June 2014.*

## MEMORANDUM OF UNDERSTANDING ON PORT STATE CONTROL IN THE ASIA-PACIFIC REGION

Table 12: PERFORMANCE OF RECOGNIZED ORGANIZATION

Recognized organization (RO)	No. of overall inspections 2012-2014	No. of RO responsible detentions 2012-2014	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
SingClass International Pte Ltd	171	4	7	0	0.58	Medium
Polski Rejestr Statkow	82	1	4	0	0.38	
Croatian Register of Shipping	103	1	5	0	0.31	
Sing-Lloyd	292	4	10	1	0.29	
Korea Classification Society (former Josen Classification Society)	688	11	20	7	0.29	
Universal Maritime Bureau	872	14	25	10	0.26	
International Naval Surveys Bureau	122	1	5	0	0.26	
Universal Shipping Bureau	156	1	6	0	0.19	
International Ship Classification	905	13	26	11	0.16	
Union Bureau of Shipping	2,864	48	70	44	0.14	
Biro Klasifikasi Indonesia	283	2	10	1	0.08	
Panama Shipping Registrar Inc.	332	2	11	2	0.01	
International Register of Shipping	863	10	25	10	0	
Global Marine Bureau	1,131	14	31	14	-0.04	
Overseas Marine Certification Services	1,037	8	29	13	-0.59	
Intermaritime Certification Services, S.A.	1,320	11	35	18	-0.61	
Isthmus Bureau of Shipping	1,477	12	39	20	-0.67	
Indian Register of Shipping	283	0	10	1	-0.75	
Panama Maritime Documentation Services	1,336	6	36	18	-1.12	
DNV GL AS	994	3	28	12	-1.27	
Vietnam Register	2,404	7	60	36	-1.53	
CR Classification Society	930	1	26	11	-1.65	
Russian Maritime Register of Shipping	1,338	2	36	18	-1.66	
Germanischer Lloyd	9,419	18	211	166	-1.76	
Bureau Veritas	9,967	17	223	176	-1.79	
American Bureau of Shipping	9,630	15	216	170	-1.81	
Nippon Kaiji Kyokai	29,280	38	626	546	-1.85	
Det Norske Veritas	10,849	9	241	192	-1.90	
Lloyd's Register	11,992	10	266	214	-1.90	
Korean Register of Shipping	8,582	3	193	150	-1.95	

Recognized organization (RO)	No. of overall inspections 2012-2014	No. of RO responsible detentions 2012-2014	Low/medium Limit	Medium/high Limit	Excess factor	Performance level
China Classification Society	8,428	2	190	147	-1.96	High
Registro Italiano Navale	2,410	0	60	36	-1.97	

- Note: 1) In this table, only recognized organizations (RO) that had more than 60 inspections are taken into account. The formula used is identical to the one used for the Black-Grey-White List. However, the values for P and Q are adjusted to P=2% and Q=1%.
- 2) ROs involving 60-179 inspections with zero detention are not included in this table.

# Recognized Organization performance table 2010-2012

Recognized Organization *		Inspections	Detentions	Low/medium limit	Medium / high limit	Excess Factor	Performance level
American Bureau of Shipping (USA)	ABS	5,690	3	132	96	-1.92	HIGH
Det Norske Veritas	DNV	11,602	8	257	207	-1.91	
Lloyd's Register (UK)	LR	12,636	9	279	226	-1.91	
China Classification Society	CCS	816	0	23	9	-1.86	
Korean Register of Shipping (Korea, Rep. of)	KRS	815	0	23	9	-1.86	
Registro Italiano Navale	RINA	3,036	4	74	48	-1.79	
Nippon Kaiji Kyokai (Japan)	NKK	6,726	13	154	115	-1.75	
Germanischer Lloyd	GL	14,495	37	318	262	-1.70	
Bureau Veritas (France)	BV	12,455	32	275	223	-1.69	
Turkish Lloyd	TL	1,219	3	33	16	-1.46	
Russian Maritime Register of Shipping	RMRS	5,151	21	120	86	-1.46	MEDIUM
Polski Rejestr Statkow	PRS	648	4	19	7	-0.54	
Croatian Register of Shipping	CRS	198	1	8	0	0.10	
Indian Register of Shipping	IRS	109	0	5	0	0.12	
Hellenic Register of Shipping (Greece)	HRS	212	2	8	0	0.21	
International Naval Surveys Bureau (Greece)	INSB	782	12	23	9	0.24	
Panama Register Corporation	PRC	125	1	6	0	0.26	
Isthmus Bureau of Shipping (Panama)	IBS	229	3	9	1	0.30	
Dromon Bureau of Shipping	DBS	198	3	8	0	0.37	
Maritime Lloyd -Georgia	MLG	90	2	4	0	0.54	
Universal Shipping Bureau Inc. (Panama)	USB	171	4	7	0	0.58	LOW
Intermaritime Certification Service, S.A. (Panama)	ICS	61	2	4	0	0.67	
Global Marine Bureau Inc.	GMB	100	3	5	0	0.68	
Panama Maritime Documentation Services	PMDS	100	3	5	0	0.68	
Shipping Register of Ukraine	SRU	744	19	22	8	0.80	
International Register of Shipping (USA)	IS	757	21	22	8	0.93	
Bulgarski Koraben Registar	BRS	337	15	11	2	1.82	
Register of Shipping (Albania)	RSA	160	10	7	0	2.54	
INCLAMAR (Cyprus)	INCLAMAR	93	7	5	0	2.75	
Phoenix Register of Shipping (Greece)	PHRS	138	10	6	0	3.11	

\* Where a country is shown after a Recognized Organization this indicates its location and not necessarily any connection with the maritime administration of that country.

# Recognized Organization performance table 2011-2013

Recognized Organization		Inspections	Detentions	Low/medium limit	Medium / high limit	Excess Factor	Performance level
Lloyd's Register	LR	11,405	10	253	203	-1.89	HIGH
American Bureau of Shipping	ABS	5,323	4	124	89	-1.89	
Det Norske Veritas	DNV	10,382	9	232	184	-1.89	
China Classification Society	CCS	746	-	22	8	-1.83	
Nippon Kaiji Kyokai	NKK	6,584	18	151	112	-1.65	
Registro Italiano Navale	RINA	2,895	7	71	45	-1.63	
Bureau Veritas	BV	11,217	35	249	199	-1.63	
Germanischer Lloyd	GL	12,850	45	284	230	-1.59	
Korean Register of Shipping	KRS	825	1	24	9	-1.58	
Russian Maritime Register of Shipping	RMRS	4,338	18	102	71	-1.43	
Turkish Lloyd	TL	933	3	26	11	-1.19	
Polski Rejestr Statkow (Polish Register of Shipping)	PRS	513	3	16	5	-0.43	
Croatian Register of Shipping	CRS	173	-	7	-	0.01	
Indian Register of Shipping	IRS	99	-	5	-	0.15	
ASIA Classification Society	ASIA	64	-	4	-	0.23	
Isthmus Bureau of Shipping, S.A.	IBS	185	2	7	0	0.27	
Panama Register Corporation	PRC	108	1	5	-	0.30	
Other	OTHER	315	5	11	2	0.36	
Shipping Register of Ukraine	SRU	670	13	20	7	0.47	
Hellenic Register of Shipping	HRS	90	2	4	-	0.54	
Maritime Bureau of Shipping	MBS	81	2	4	-	0.57	
Intermaritime Certification Services, ICS Class	ICS	70	2	4	-	0.62	
Phoenix Register of Shipping	PHRS	152	4	6	-	0.64	
Macosnar Corporation	MC	62	2	4	-	0.66	
Maritime Lloyd - Georgia	MLG	143	4	6	-	0.68	
Venezuelan Register of Shipping	VRS	98	3	5	-	0.69	
Global Marine Bureau Inc.	GMB	139	4	6	-	0.69	
International Naval Surveys Bureau	INSB	694	17	20	7	0.74	
Panama Maritime Documentation Services	PMDS	85	3	4	-	0.75	
Dromon Bureau of Shipping	DBS	362	10	12	2	0.78	
Register of Shipping (Albania)	RSA	118	5	5	-	0.94	
Overseas Marine Certification Services	OMCS	80	4	4	-	0.97	
International Register of Shipping	IS	472	16	15	4	1.18	LOW
Global Shipping Bureau Inc	GSB	69	4	4	-	1.19	
Universal Shipping Bureau Inc.	USB	157	7	7	-	1.22	
Bulgarian Register of Shipping	BRS	270	11	10	1	1.37	
Inspeccion y Clasificacion Maritima (INCLAMAR)	INCLAMAR	78	7	4	-	3.48	VERY LOW

In this table only Recognized Organizations that had 60 or more inspections in a 3-year period are taken into account. The formula is identical to the one used for the White, Grey and Black list. However, the values for P and Q are adjusted to P=0.02 and Q=0.01.

# Recognized Organization performance table 2012-2014

Recognized Organization		Inspections	Detentions	Low/medium limit	Medium / high limit	Excess Factor	Performance level
DNV GL AS	DNVGL	1718	0	44	24	-1.95	HIGH
Det Norske Veritas	DNV	10,219	7	228	181	-1.91	
Lloyd's Register	LR	11,485	10	255	205	-1.89	
American Bureau of Shipping	ABS	5,327	4	124	89	-1.89	
China Classification Society	CCS	769	0	22	8	-1.84	
Registro Italiano Navale	RINA	3,072	6	75	48	-1.70	
Korean Register of Shipping	KRS	936	1	26	11	-1.66	
Bureau Veritas	BV	11,239	37	250	200	-1.61	
Germanischer Lloyd	GL	12,674	47	280	227	-1.56	
Nippon Kaiji Kyokai	NKK	6,894	24	158	118	-1.56	
Turkish Lloyd	TL	776	2	22	9	-1.22	
Russian Maritime Register of Shipping	RMRS	4,011	23	95	65	-1.21	
Polski Rejestr Statkow (Polish Register of Shipping)	PRS	471	3	15	4	-0.28	
Croatian Register of Shipping	CRS	169	0	7	0	0.02	
Indian Register of Shipping	IRS	73	0	4	0	0.20	
Hellenic Register of Shipping	HRS	61	0	4	0	0.23	MEDIUM
Other	OTHER	437	7	14	3	0.34	
Register of Shipping (Albania)	RSA	93	1	5	0	0.34	
Isthmus Bureau of Shipping, S.A.	IBS	186	3	7	0	0.40	
Macosnar Corporation	MC	73	1	4	0	0.41	
Shipping Register of Ukraine	SRU	594	12	18	6	0.51	
Dromon Bureau of Shipping	DBS	484	10	15	4	0.53	
International Naval Surveys Bureau	INSB	667	14	20	7	0.55	
Intermaritime Certification Services, ICS Class	ICS	79	2	4	0	0.58	
Maritime Lloyd - Georgia	MLG	164	4	7	0	0.60	
Panama Register Corporation	PRC	111	3	5	0	0.63	
Maritime Bureau of Shipping	MBS	101	3	5	0	0.67	
Venezuelan Register of Shipping	VRS	175	5	7	0	0.71	
Global Marine Bureau Inc.	GMB	125	4	6	0	0.74	
Panama Maritime Documentation Services	PMDS	81	3	4	0	0.77	
Overseas Marine Certification Services	OMCS	98	4	5	0	0.87	
Phoenix Register of Shipping	PHRS	171	6	7	0	0.87	
Universal Shipping Bureau Inc.	USB	129	5	6	0	0.89	
Global Shipping Bureau Inc	GSB	78	4	4	0	0.98	
Bulgarian Register of Shipping	BRS	256	10	9	1	1.21	LOW
International Register of Shipping	IS	390	16	13	3	1.64	
Inspeccion y Clasificacion Maritima (INCLAMAR)	INCLAMAR	65	7	4	0	4.40	VERY LOW

In this table only Recognized Organizations that had 60 or more inspections in a 3-year period are taken into account.

The formula is identical to the one used for the White, Grey and Black list. However, the values for P and Q are adjusted to P=0.02 and Q=0.01.