



***Minsk (BLR) / Lausanne (SUI)***

**To: All Member Federations**

We are pleased to present the FIG/WTC full Technical report from the

- 2015 Artistic Gymnastics World Championships
  - *Evaluation of Participation*
  - *Performance Statistics*
  - *Judging Activities*
  - *Remarks, Conclusion*
- WAG Code of Points updates including
  - *New elements*
  - *Symbol charts*

*We ask that you kindly distribute this information to your WTC chairperson, national team coaches and FIG Brevet judges*

For the FIG WTC and with best wishes,

**Nellie KIM**

***President of the Women's Technical Committee***



## 2015 World Championships – Glasgow, GBR – WAG General Report

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### Participation and the results

This World Championships was qualification for the first 8 teams and the apparatus medalists to the XXXI Olympic Games in Rio de Janeiro (BRA).

Qualified Teams and medalists:

- Teams: USA, RUS, GBR, CHN, ITA, JPN, CAN and NED.
- Medalists: HONG Un Jong PRK (VT) and SCHAEFER Pauline GER (BB)\*

The remaining 4 teams' positions and AA-around gymnasts will be qualified at 2016 Test event which will be held in Rio de Janeiro April 2016.

Compared to the 2014 World Championships in Nanning (CHN) there were more gymnasts registered at the 2015 World Championships in Glasgow (GBR). An increase from 250 gymnasts to 285 gymnasts. This sets a new record in participation numbers at World Championships.

### Judges Review Session, Judges' Draw and JE

There were **94** judges (including 8 D-Panel Judges and 8 Reference Judges) representing **67** countries.

The judges' Instruction was very informative, focusing only on critical updates.

The draw for the R and E - Panel judges was clearly presented and carried out step-by-step according to the presented procedures.

The list with the judges' assignments for the competition phases were immediately posted on the screen throughout the draw process, then subsequently printed and forwarded to Longines.

For the first time the judges were sitting on the podium right underneath the first row of spectators and outside the FOP.

The results of the evaluation of the judges' work will be announced after the next WTC meeting and then conveyed to the judges and their federations.

### Longines and Ircos Video Systems

At this time the Longines and Ircos system worked very well. Following the podium training, small adjustments were made in the layout of the D-judges' entry pad. The E and R judges in general were very happy with the new layout and system of the pad. During C-I there were only 2 mistakes in the deduction entries which were corrected immediately.

Following the decision of the FIG/EC the rule regarding "blocking" the D panels' score was applied (the system automatically blocked the score, when the D judges' score was higher than the D score of the AS).

The WTC members are very grateful to the "Longines" and "IRCOS" teams for their help and support.



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A suggestion for the future competition is to have a “moving” camera on Vault, in order to produce better videos including the running and the best view of the vault itself.

### Apparatus

The apparatus supplied by Gymnova was safely installed and well maintained throughout the competition.

New construction allowed the raising of the Uneven bars to be done very quickly and without hassle.

One gymnast also made the bars distance closer than 180 cm.

For the first time in the training halls, warm up hall, and during podium training the gymnast had the possibility to use an additional 10 cm soft mat on FX, and a 30 cm “crash mat” on VT.

The gymnasts were very appreciative of the allowance of additional matting. The WTC received feedback that the VT “crash mat” was too hard, and instead would recommend an extra 10cm mat for VT be provided in the future.

The WTC would like to express their gratitude to the Gymnova technical team for their constant availability and help.

The presence of Ludwig Schweizer was very important and the WTC would like to thank him for his cooperation.

### Proposals

**C-I and C-IV Format:** It will be necessary to review and clarify the FIG TR regarding the substitution of injured gymnast. It should be possible to substitute an injured gymnast from 7 and not 6 gymnasts (no need to follow the order in the start list for substitute).

**C-IV:** Instead of a rotation between two teams, it might be a good idea to rotate gymnasts (e.g if there are two teams AUS and JPN then the rotation should be AUS/JPN/AUS/JPN and so on). In this case two warm ups would not be needed and the competitions might be more interesting.

### Facilities, Organization, and Competition Management

The Competition Hall was very well presented. The Mega Wall, the special podium for gymnasts' presentations and medal ceremonies made a significant impact on the presentation of the entire competitions compared to the previous World Championships. The new innovative ideas were very welcome.

The WTC was grateful to the LOC for enabling their request for the positioning of judges off the Field of Play.

The judges were seated at a location and distance from the apparatus which permitted an unobstructed view of the total performance and which permitted them to fulfill in the best way all of their evaluation duties.

It was the 1<sup>st</sup> time the gymnasts had the possibility to train in the “Warm up” Hall from the beginning to the end of the competitions' period.

Installation of the Podium in the “Warm up” Hall helped the gymnasts a greatly in the preparation to the competitions.



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The location of the Hotels, Competition and Training Halls, was the best. There was almost no need for transportation during the competition. Participants could chose to ride on a bus or to walk to/from the competition venue.

### Conclusion and thanks

On behalf of the WTC, I extend our heartfelt thanks and warm appreciation to Mr. Alan Sommerville OBE, Chairman of British Gymnastics Association, Mrs. Jane Allen, CEO of British Gymnastics Association, Mr. Colin Hartley, Championships Director, Mr. Matthew Greenwood, Competition manager and all LOC staff members, for providing first-rate protocol and hospitality, for great and innovative competitions.

The volunteers fulfilled their responsibilities in a very friendly and professional manner.

We would like to extend a warm thanks to the Government of the Glasgow City for their contribution to a successful staging of the WC'15 and for the excellent preparation and organization.

In addition to their participation in the competitions, the gymnasts and officials also had the chance to visit cultural and historical places in the Glasgow City, to experience a little bit of the Scottish folklore.

It was a pleasure to work with Ms. Karen Hofen, Mrs. Maria McLoughlin and Ms. Glynis Tovey, WTC and judges attaché, who arranged the hospitality for the WTC and the Judges extremely well.

Our gratitude is also conveyed to the FIG Office, especially Mr. Nicolas Buompane, Ms. Céline Cachemaille, Ms. Terhi Toivanen for their assistance, confidence and support.

We are very grateful to FIG President Prof. Bruno Grandi and the Secretary General Mr. André Gueisbuhler, to the members of the FIG Authorities, in particular Mr. Michel Léglise and Mr. Peter Vidmar (WAG Jury of Appeal), for their support and help during all competition's phases.

I warmly thank the WAG judges and WTC colleagues for their conscientious cooperation and team work during the competitions.



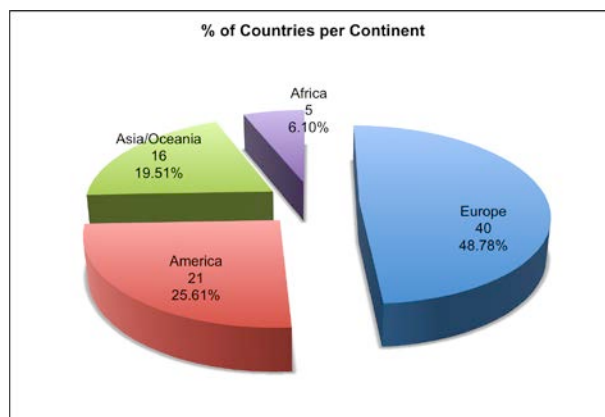
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### Appendix to the report

#### 1. PARTICIPATION IN C-I (Qualification)

The program consisted of Competition I, IV, II and III. The participation can be summarized as follows:

| Continent    | Countries | %          |
|--------------|-----------|------------|
| Europe       | 40        | 49         |
| America      | 21        | 26         |
| Asia/Oceania | 14/2      | 19         |
| Africa       | 5         | 6          |
| <b>Total</b> | <b>82</b> | <b>100</b> |



#### Remarks:

The required format for a full team was as follows: 5 gymnasts competed and 4 scores counted. From the **82** competing countries,

- **24** were registered with full teams.
- **58** countries were registered with 1 to 3 individual gymnasts as follows:
  - **18** Countries with 1 gymnast: *ALG; ARM; CAY; CYP; DOM; ECU; GEO; GUA; HON; INA; IND; ISR; LTU; MGL; MON; PHI; SRB; UKR*
  - **17** Countries with 2 gymnasts: *BAH; BLR; BOL; BUL; CHI; CUB; FIN; MAR; MLT; NZL; PAN; PER; SVK; TPE; TTO; URU; VIE*
  - **23** Countries with 3 gymnasts: *ARG; AZE; COL; CRO ; CZE; DEN; EGY; IRL; ISL; JAM; KAZ; LAT; MAS; NAM; NOR; POR; PUR; RSA; SIN; SLO; TUR; UZB; VEN*

Total: **261** Gymnasts

From the **285** gymnasts registered, **261** competed in at least 1 event (the total number of participating gymnasts was 262 if we consider the reserve gymnast #7 from ITA who competed in C-IV)

From the **24 countries** registered **with teams**:

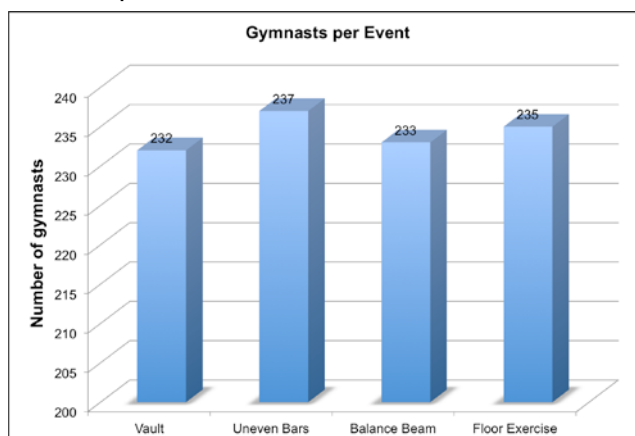
- **4** Countries competed with 5 gymnasts: *AUT; MEX; PRK; ROU*
- **20** Countries competed with 6 gymnasts: *AUS; BEL; BRA; CAN; CHN; ESP; FRA; GBR; GER; GRE; HUN; ITA; JPN; KOR; NED; POL; RUS; SUI; SWE; USA*

**All Gymnasts: 192** gymnasts competed in the All-Around (2 gymnasts received "0" in 1 apparatus CAY; URU) and **69** gymnasts competed in 1 to 3 events

- **41** gymnasts in 3 events
- **19** gymnasts in 2 events
- **9** gymnasts in 1 event

#### Gymnasts per Event:

- Vault **232**
- Uneven Bars **237**
- Balance Beam **233**
- Floor exercise **235**





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### 2. PARTICIPATION IN C-II (All-Around Finals with the best 24 gymnasts - maximum 2 per country)

- 10 Countries competed with 2 gymnasts: BEL, BRA, CAN, CHN, GBR, GER, ITA, JPN, ROU, USA
- 4 Countries competed with 1 gymnast: HUN, NED, RUS, SUI

**Total Countries: 14**

### 3. PARTICIPATION IN C-III (Apparatus Finals with the best 8 gymnasts per event - maximum 2 per country)

- 3 Countries competed in 4 finals: CHN, RUS, USA
- 1 Country competed in 3 finals: GBR
- 1 Country competed in 2 finals: NED
- 7 Countries competed in 1 final: CAN, GER, IND, JPN, MEX, PRK, SUI

**Total Countries: 12**

### 4. PARTICIPATION IN C-IV (Team Finals - Top 8 Teams – with 3 gymnasts competed and 3 scores counted)

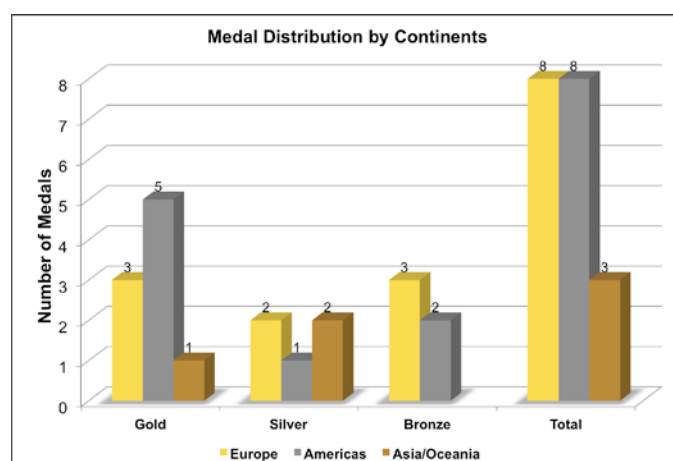
- Eight countries in Team Finals: CAN, CHN, GBR, ITA, JPN, NED, RUS, USA
- New countries in the top 8 compared to the previous WC: CAN, NED
- Countries **not** in the top 8 compared to the previous WC: AUS, ROU

### Medals Distributions for C-II, III, IV, by participating Countries

| Nations      | Gold     | Silver   | Bronze   | Total     |
|--------------|----------|----------|----------|-----------|
| USA          | 5        | 1        | 2        | 8         |
| RUS          | 3        | 1        |          | 4         |
| CHN          | 1        | 1        |          | 2         |
| GBR          |          |          | 1        | 1         |
| ROU          |          |          | 1        | 1         |
| NED          |          | 1        |          | 1         |
| PRK          |          | 1        |          | 1         |
| GER          |          |          | 1        | 1         |
| <b>TOTAL</b> | <b>9</b> | <b>5</b> | <b>5</b> | <b>19</b> |

### Medals Distributions by Continents

| Continent    | Gold | Silver | Bronze | Total |
|--------------|------|--------|--------|-------|
| Europe       | 3    | 2      | 3      | 8     |
| Americas     | 5    | 1      | 2      | 8     |
| Asia/Oceania | 1    | 2      |        | 3     |





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### 5. AGE OF THE GYMNASTS

Competing gymnasts: 261

| Year Born | # of Gym | %     |
|-----------|----------|-------|
| 1975      | 1        | 0.38  |
| 1984      | 2        | 0.77  |
| 1986      | 1        | 0.38  |
| 1987      | 3        | 1.15  |
| 1988      | 1        | 0.38  |
| 1989      | 4        | 1.53  |
| 1990      | 2        | 0.77  |
| 1991      | 10       | 3.83  |
| 1992      | 14       | 5.36  |
| 1993      | 9        | 3.45  |
| 1994      | 18       | 6.90  |
| 1995      | 32       | 12.26 |
| 1996      | 29       | 11.11 |
| 1997      | 36       | 13.79 |
| 1998      | 46       | 17.62 |
| 1999      | 53       | 20.31 |

|        | Number of gymnasts | Average Age of the Competing gymnasts |
|--------|--------------------|---------------------------------------|
| '15 WC | 261                | 19.17                                 |
| '14 WC | 250                | 19.34                                 |
| '13 WC | 134                | 19.16                                 |
| '11 WC | 216                | 18.72                                 |
| '10 WC | 217                | 18.20                                 |
| '09 WC | 146                | 18.34                                 |
| '07 WC | 214                | 17.71                                 |
| '06 WC | 223                | 18.03                                 |
| '05 WC | 95                 | 18.27                                 |

### Average Age of the teams

| NAT | AGE   | NAT | AGE   |
|-----|-------|-----|-------|
| AUS | 19.83 | ITA | 19.00 |
| AUT | 20.40 | JPN | 18.17 |
| BEL | 19.17 | KOR | 19.00 |
| BRA | 20.67 | MEX | 20.00 |
| CAN | 18.17 | NED | 19.33 |
| CHN | 17.17 | POL | 20.50 |
| ESP | 17.67 | PRK | 21.40 |
| FRA | 18.00 | ROU | 17.60 |
| GBR | 18.67 | RUS | 19.00 |
| GER | 19.00 | SUI | 19.17 |
| GRE | 20.50 | SWE | 21.00 |
| HUN | 18.50 | USA | 19.00 |

### REMARKS

- Youngest Team: 17.17 (CHN)
- Oldest Team: 21.40 (PRK)
- Average of all teams: 19.20

### 6. LEVEL OF PERFORMANCE

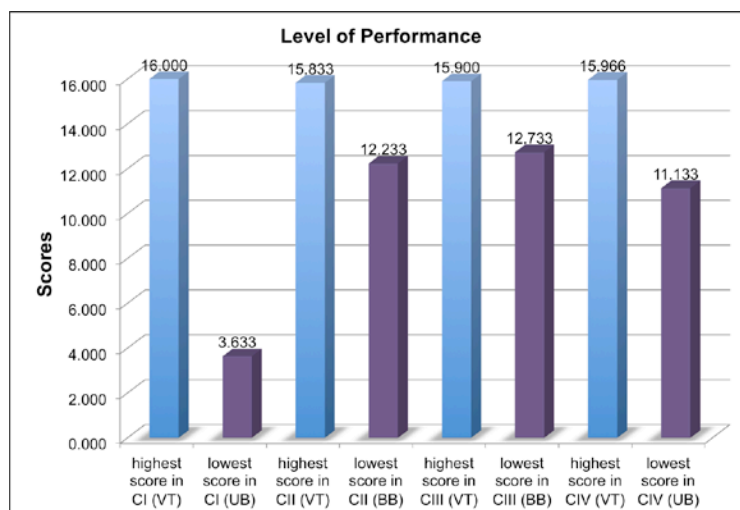
#### C-I:

- the **highest** score : 16.000P. (VT)
- the **lowest** score : 4.133P. (UB<sup>1</sup>)

#### C-II:

- the **highest** score : 15.833P. (VT)
- the **lowest** score : 12.233P. (BB)

<sup>1</sup> Excluding three "0.00" scores on VT and 2 scores on UB with -4.00 deduction for Short Exercise.







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### C-III:

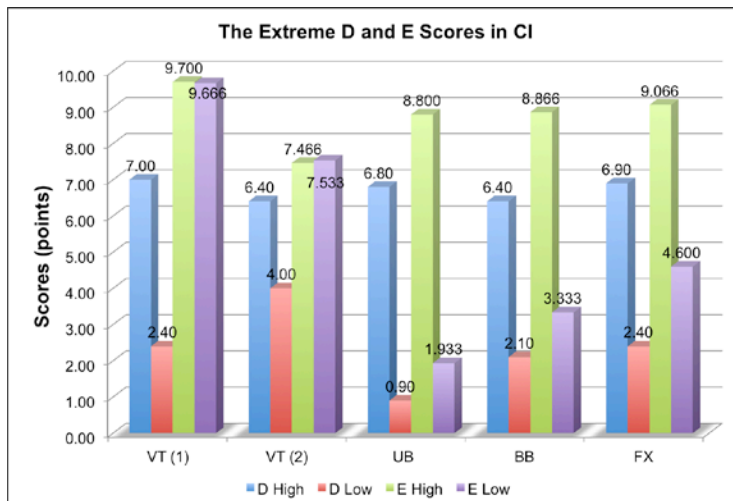
- the **highest** score : 15.900P. (VT)
- the **lowest** score : 12.733P. (BB)

### C-IV:

- the **highest** score : 15.966P. (VT)
- the **lowest** score : 11.133P. (UB)

The Extreme D and E Scores in C-I were as follows:

|        | D High | D Low | E High | E Low |
|--------|--------|-------|--------|-------|
| VT (1) | 7.000  | 2.400 | 9.700  | 9.666 |
| VT (2) | 6.400  | 4.000 | 7.466  | 7.533 |
| UB     | 6.800  | 2.200 | 8.800  | 1.933 |
| BB     | 6.400  | 2.100 | 8.866  | 3.333 |
| FX     | 6.900  | 2.400 | 9.066  | 4.600 |



Comparison of the average scores at the WC'15 vs. average scores at the WC'14 and the WC'13

### C-II:

- The **average** Final Score (4 events) for 24 gymnasts was:
  - WC'15: 56.147P.
  - WC'14: 55.430P.
  - WC'13: 54.871P.
- E-Score:**
  - Gymnasts scoring over 9.000P.
    - WC'15: 17 gymnasts (VT)
    - WC'14: 11 gymnasts (VT)
    - WC'13: 14 gymnasts (VT)
  - Gymnasts scoring between 8.500P and 8.999P.
    - WC'15: 20 gymnasts (VT-7, UB-5, BB-3, FX-5)
    - WC'14: 22 gymnasts (VT-11, UB-5, BB-4, FX-2)
    - WC'13: 17 gymnasts (VT-10, UB-3, BB-1, FX-3)

### C-III:

Average Final score per apparatus:

|    | WC'15   | WC'14   | WC'13   |
|----|---------|---------|---------|
| VT | 15.017P | 14.980P | 13.979P |
| UB | 15.107P | 15.002P | 14.733P |
| BB | 13.886P | 14.175P | 14.227P |
| FX | 14.883P | 14.433P | 14.333P |





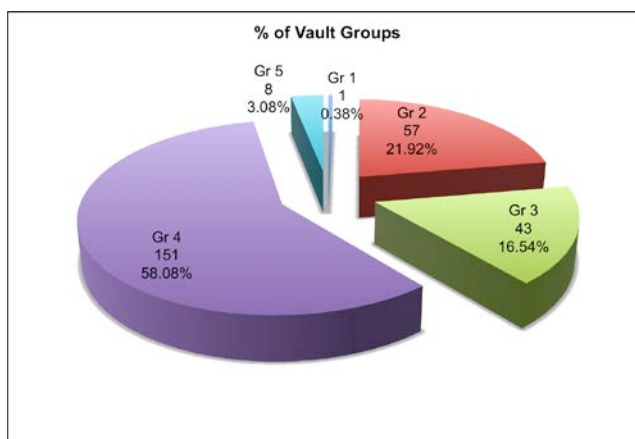
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### VAULT

#### AS/D Panel:

- In Competition I. **233** gymnasts performed **262** vaults from the following groups<sup>2</sup>:

|             |           |
|-------------|-----------|
| Gr. 1 – 1   | (0.38 %)  |
| Gr. 2 – 57  | (21.92 %) |
| Gr. 3 – 43  | (16.54 %) |
| Gr. 4 – 151 | (58.08 %) |
| Gr. 5 – 8   | (3.08 %)  |



Highest Final Score (in 1 VT): **16.000P.**

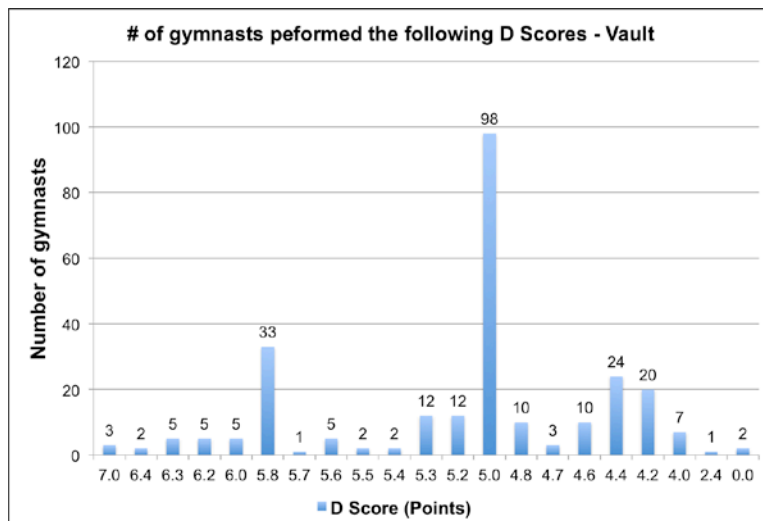
Highest D-Score (in 1 VT): **7.000P.**

Highest E-Score (in 1 VT): **9.700P.**

Simone Biles (USA)  
Dipa Karmakar (IND), Oksana Chusovitina (UZB),  
Yamilet Peña Abreu (DOM)  
Simone Biles (USA)

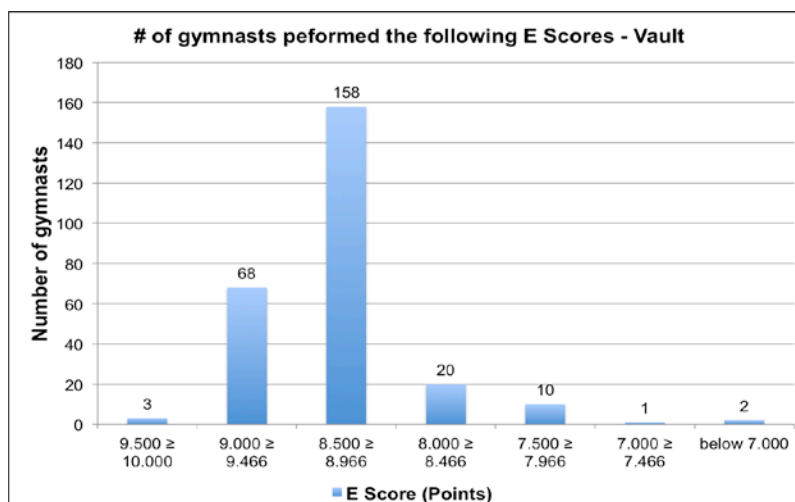
#### D-Score (including VT1 and VT2)

| D score | # of gymnasts | D score | # of gymnasts |
|---------|---------------|---------|---------------|
| 7.00    | 3             | 5.30    | 12            |
| 6.40    | 2             | 5.20    | 12            |
| 6.30    | 5             | 5.00    | 98            |
| 6.20    | 5             | 4.80    | 10            |
| 6.00    | 5             | 4.70    | 3             |
| 5.80    | 33            | 4.60    | 10            |
| 5.70    | 1             | 4.40    | 24            |
| 5.60    | 5             | 4.20    | 20            |
| 5.50    | 2             | 4.00    | 7             |
| 5.40    | 2             | 2.40    | 1             |
|         |               | 0.00    | 2             |



#### E-Score (including VT1 and VT2)

| E score        | # of gymnasts |
|----------------|---------------|
| 9.500 ≥ 10.000 | 3             |
| 9.000 ≥ 9.466  | 68            |
| 8.500 ≥ 8.966  | 158           |
| 8.000 ≥ 8.466  | 20            |
| 7.500 ≥ 7.966  | 10            |
| 7.000 ≥ 7.466  | 1             |
| below 7.000    | 2             |



<sup>2</sup> From the 262 vaults, 2 gymnasts vaulted but scored 0.00.



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Qualification for the Apparatus Final:

- **30** gymnasts (**12.88** %) performed 2 vaults in Competition I. 1 gymnast scored 0.00
- Number of Vaults recognized different than the ones announced: **21**

**“0” Vaults: 3**

|                         |            |            |
|-------------------------|------------|------------|
| <b>Line deductions:</b> | <b>0.1</b> | <b>0.3</b> |
| C-I                     | 21         | 4          |

**Total # of falls: 8 in VT1 and 1 in VT2**

Intervention of the Reference score:

C-I – 9 times in VT1: raised 7 times, lowered 1 times  
1 time in VT2 to lower the score

C-II – 1 time to lower the score

C-IV – 3 times: raised 1 time, lowered 2 times

C-III – 1 time in VT2 to lower the score

**Inquiry: None**

**Notes:**

Due to the new arrangement of the panels, the view of the judges was excellent.

Following should be considered for the future:

- The position of the line judge was too far/low - it would be better to be closer or at least higher.
- The judges R2, E5, E4 (left to the secretary) might not see possible falls or hand support at landing if this happens close to the table, so the position of the AS and E4 could be switched.



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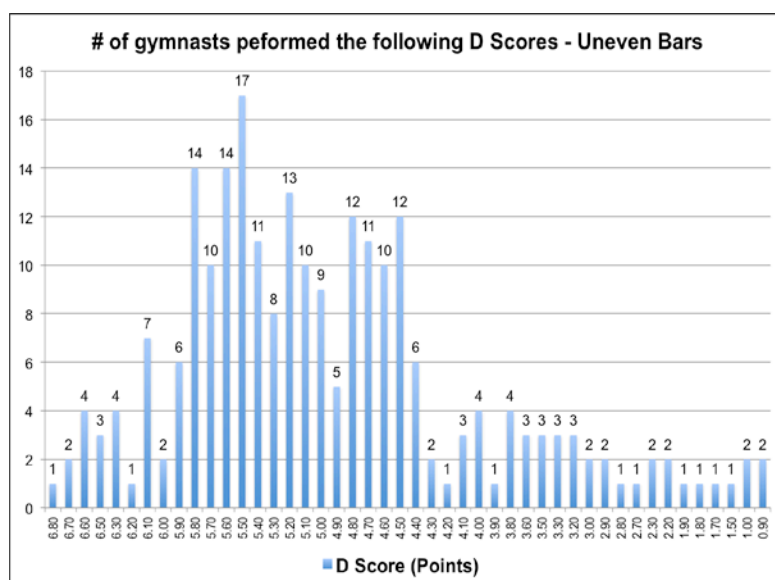
### UNEVEN BARS

In C- I, 237 gymnasts competed.

Highest Final Score: **15.466P.** Daria Spiridonova (RUS)  
Highest D-Score: **6.800P.** Yilin Fan (CHN)  
Highest E-Score: **8.800P.** Viktoria Komova (RUS)

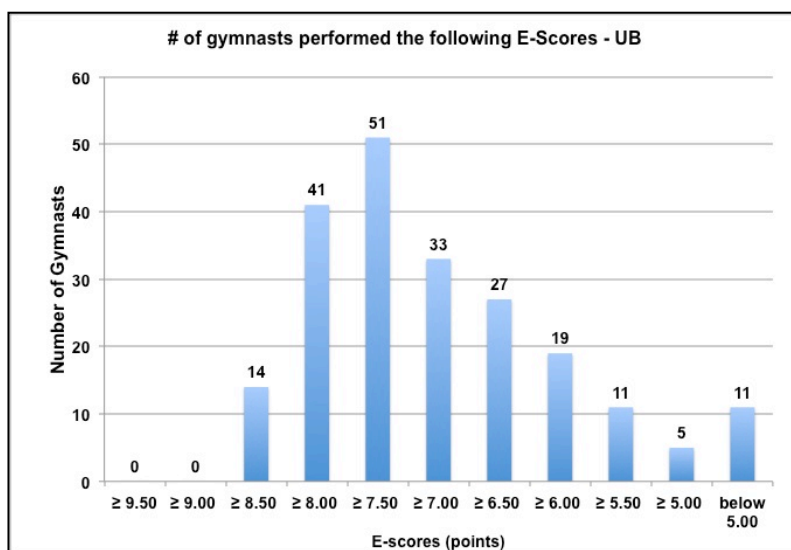
### D-Score

| D score | # of gymn | D score | # of gymn | D score | # of gymn |
|---------|-----------|---------|-----------|---------|-----------|
| 6.80    | 1         | 5.10    | 10        | 3.30    | 3         |
| 6.70    | 2         | 5.00    | 9         | 3.20    | 3         |
| 6.60    | 4         | 4.90    | 5         | 3.00    | 2         |
| 6.50    | 3         | 4.80    | 12        | 2.90    | 2         |
| 6.30    | 4         | 4.70    | 11        | 2.80    | 1         |
| 6.20    | 1         | 4.60    | 10        | 2.70    | 1         |
| 6.10    | 7         | 4.50    | 12        | 2.30    | 2         |
| 6.00    | 2         | 4.40    | 6         | 2.20    | 2         |
| 5.90    | 6         | 4.30    | 2         | 1.90    | 1         |
| 5.80    | 14        | 4.20    | 1         | 1.80    | 1         |
| 5.70    | 10        | 4.10    | 3         | 1.70    | 1         |
| 5.60    | 14        | 4.00    | 4         | 1.50    | 1         |
| 5.50    | 17        | 3.90    | 1         | 1.00    | 2         |
| 5.40    | 11        | 3.80    | 4         | 0.90    | 2         |
| 5.30    | 8         | 3.60    | 3         |         |           |
| 5.20    | 13        | 3.50    | 3         |         |           |



### E-Score

| E score        | # of gymn |
|----------------|-----------|
| 9.500 ≥ 10.000 | 0         |
| 9.000 ≥ 9.466  | 0         |
| 8.500 ≥ 8.966  | 8         |
| 8.000 ≥ 8.466  | 36        |
| 7.500 ≥ 7.966  | 45        |
| 7.000 ≥ 7.466  | 31        |
| 6.500 ≥ 6.966  | 42        |
| 6.000 ≥ 6.466  | 31        |
| 5.500 ≥ 5.966  | 22        |
| 5.000 ≥ 5.466  | 8         |
| below 5.000    | 14        |

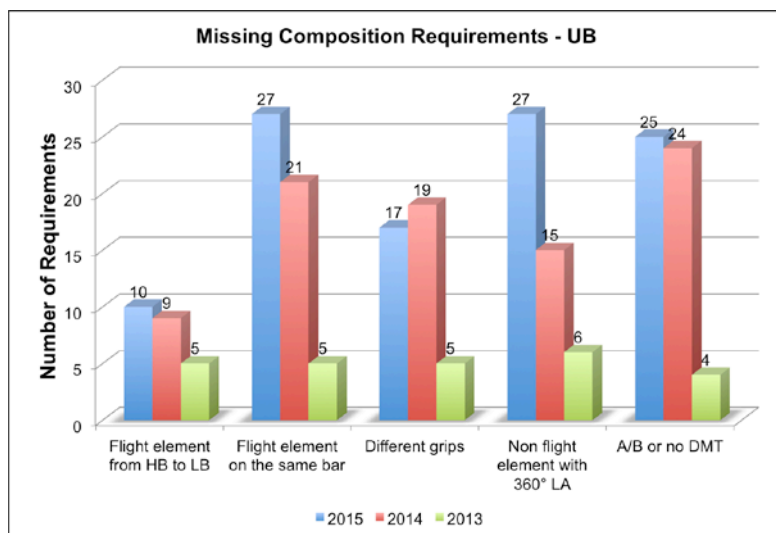




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### Missing Composition requirements

|    |                                 | 2015            | 2014 | 2013 |
|----|---------------------------------|-----------------|------|------|
| 1. | Flight element from HB to LB    | 10              | 9    | 5    |
| 2. | Flight element on the same bar  | 27              | 21   | 5    |
| 3. | Different grips                 | 17              | 19   | 5    |
| 4. | Non flight element with 360° LA | 27              | 15   | 6    |
| 5. | A/B or no DMT                   | 25 <sup>3</sup> | 24   | 4    |



### Connection Value

# of connections performed:

0.10: 154 (58 gymnasts with 1 x 0.10; 33 with 2 x 0.10; 10 with 3 x 0.10)

0.20: 30 (17 gymnasts with 1 x 0.20; 13 with 2 x 0.20)

- Total # of falls: 93
- Total # of gymnasts with more than 1 fall: 15

Intervention of the Reference score:

C-I – 17 times: raised 15 times, lowered 2 times

C-IV – 1 time: the score was raised

C-II – 2 times: the scores were raised

C-III – None

### Inquiries:

C-I - 1: Accepted

New elements performed: 1

|                |     |  |       |
|----------------|-----|--|-------|
| Kellie Simm    | GBR | Clear pike circle backward with counter pike | 4.609 |
| Sophie Scheder | GER | reverse hecht over high bar to hang          |       |

### Notes:

#### • Connections

- Two gymnasts had more than 3 elements in connection (4 and 5 elements)
- There were 4 gymnasts received CV for connections including dismount

#### • Short exercise

- 1 exercise with 5 elements (- 4.00P.)
- 1 exercise with 6 elements (- 4.00P.)
- 8 exercises with 7 elements

<sup>3</sup> 69 gymnasts had C- Dismount and 143 had D- Dismount



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- **Discipline deductions:**
  - 1 gymnast did not present herself at the end of the exercise.
- **Comments:**
  - Overuse of elements from the same group for some gymnasts.
  - When a kip performed after a Shaposhnikova element, it looks like an empty swing.
  - Couple gymnasts performed 2.202 (front support on HB - stoop with flight or free straddle forward over HB) which fulfill CR #2.

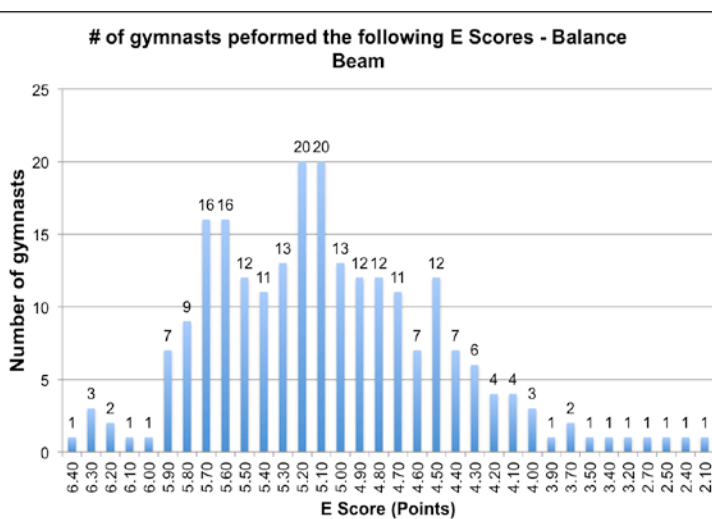
### BALANCE BEAM

In C- I, 233 gymnasts competed.

Highest Final Score: **14.966P.** Simone Biles (USA)  
Highest D-Score: **6.400P.** Elisabeth Black (CAN)  
Highest E-Score: **8.866P.** Sanne Wevers (NED)

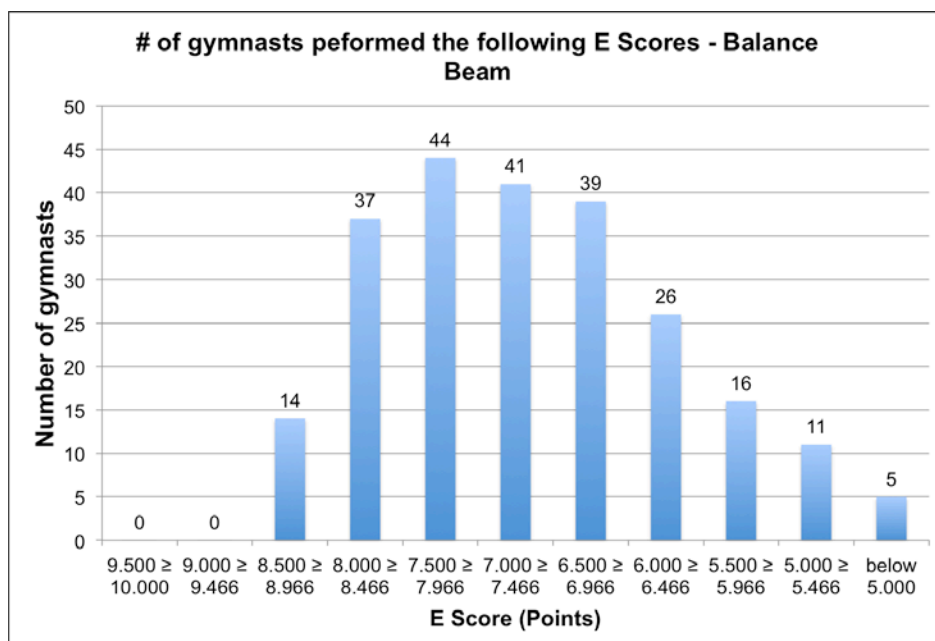
#### D-Score

| D score | # of gymn | D score | # of gymn | D score | # of gymn |
|---------|-----------|---------|-----------|---------|-----------|
| 6.40    | 1         | 5.20    | 20        | 4.10    | 4         |
| 6.30    | 3         | 5.10    | 20        | 4.00    | 3         |
| 6.20    | 2         | 5.00    | 13        | 3.90    | 1         |
| 6.10    | 1         | 4.90    | 12        | 3.70    | 2         |
| 6.00    | 1         | 4.80    | 12        | 3.50    | 1         |
| 5.90    | 7         | 4.70    | 11        | 3.40    | 1         |
| 5.80    | 9         | 4.60    | 7         | 3.20    | 1         |
| 5.70    | 16        | 4.50    | 12        | 2.70    | 1         |
| 5.60    | 16        | 4.40    | 7         | 2.50    | 1         |
| 5.50    | 12        | 4.30    | 6         | 2.40    | 1         |
| 5.40    | 11        | 4.20    | 4         | 2.10    | 1         |
| 5.30    | 13        |         |           |         |           |



#### E-Score

| E score        | # of gymn |
|----------------|-----------|
| 9.500 ≥ 10.000 | 0         |
| 9.000 ≥ 9.466  | 0         |
| 8.500 ≥ 8.966  | 14        |
| 8.000 ≥ 8.466  | 37        |
| 7.500 ≥ 7.966  | 44        |
| 7.000 ≥ 7.466  | 41        |
| 6.500 ≥ 6.966  | 39        |
| 6.000 ≥ 6.466  | 26        |
| 5.500 ≥ 5.966  | 16        |
| 5.000 ≥ 5.466  | 11        |
| below 5.000    | 5         |

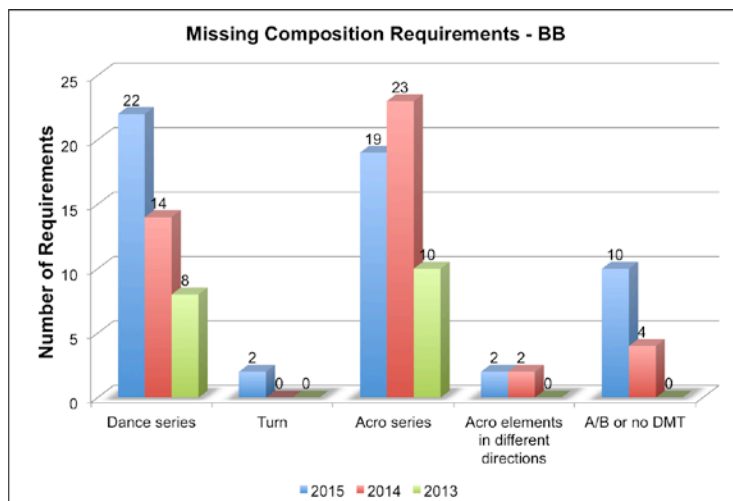




## 2015 World Championships – Glasgow, GBR – WAG General Report

### Missing Composition requirements

|    |                                       | 2015            | 2014 | 2013 |
|----|---------------------------------------|-----------------|------|------|
| 1. | Dance series                          | 22              | 14   | 8    |
| 2. | Turn                                  | 2               | 0    | 0    |
| 3. | Acro series                           | 19              | 23   | 10   |
| 4. | Acro elements in different directions | 2               | 2    | 0    |
| 5. | A/B or no DMT                         | 10 <sup>4</sup> | 4    | 0    |



### Connection Value

# of connections performed:

– 0.10: 133

|   |    |
|---|----|
| Series Bonus  | 42 |
| A+C Turns   | 1  |
| Dance CV (0.10)   | 24 |
| D+A Mixed   | 35 |
| C+C Mixed   | 16 |
| D+C Mixed   | 5  |
| C+C Acro (Layout Salto x 2)   | 4  |
| B+E Acro (Flic, Flic Stretched Salto)   | 1  |
| D+D Acro (Free walkover Free walkover / free walkover side salto / free cartwheel free cartwheel) | 5  |

– 0.20: 9 (C/D+D or higher: 8; Mix CV: 1)

- Overtime deductions: C-I – 39
- Total # of falls: 167
- Total # of gymnasts with more than 1 fall: 36

Intervention of the Reference score:

C-I – 5: raised 1 time, lowered 4 times

C-II – 1: the score was raised

C-III – 1: the score was raised

C-IV – None

### Inquiries:

C-I: 1, not accepted

<sup>4</sup> 83 gymnasts performed C- Dismount and 140 performed D- Dismount



## 2015 World Championships – Glasgow, GBR – WAG General Report

New elements performed: 3

|                  |     |   |       |
|------------------|-----|---|-------|
| Marisa Dick      | TTO | Mount: Change leg leap to free cross split sit - diagonal approach to beam.   | 1.305 |
| Pauline Schaefer | GER | Mount: Standing with back to beam- Jump backward to side split on beam with hand support.   | 1.204 |
| Kitti Honti      | HUN | Gainer Flic - Flac with ¼ twist (90°) to Handstand (2 sec.) - lower to optional end position<br>If performed with additional ½ turn in handstand (no 2 sec. hold required). | 5.307 |

### Notes:

- Beam exercises are still, with many pauses and with no fluidity.
- Many difficult routines still have no artistry at all which is disappointing.
- The “close to beam” special requirement maybe should include an element” i.e. neck roll / Silivas / backward roll to knee just to try to be creative instead of sitting on the beam, turning, lying back and then standing up.
- It is difficult on beam with regards to devaluing an element because judges have to look at so many things in a very short time.
- No gymnast did a sideward dance element (for the increased value). It is not being performed for fear of falling.
- Double pike back salto appears to be the favored dismount, however, there was an overuse of Gainer Salto dismounts (in particular to get D- dismount).
- The rules for recognition of stretched salto bwd is now clear and these were easier to evaluate.

### • Interesting Connections

- The Series bonus is really good as it's nice to see gymnasts connecting 3 elements.
- One gymnast did free cartwheel immediate Korbut-flic. This was a lovely combination as it got her low to the beam and it was creative.
- Only one gymnast in C-I connected two turns which was surprising because this used to be more popular in the past, but maybe gymnasts are afraid of falling.

## FLOOR

In C-I, 235 gymnasts competed.

Highest Final Score: **15.966P.** Simone Biles (USA)  
 Highest D-Score: **6.900P.** Simone Biles (USA)  
 Highest E-Score: **9.066P.** Simone Biles (USA)

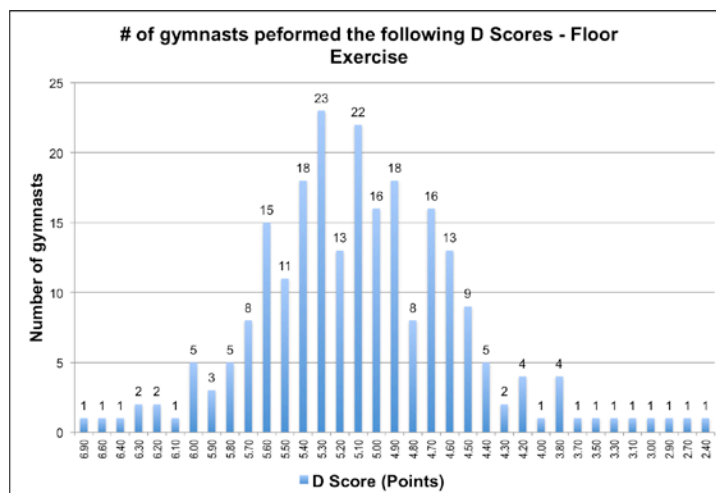




## 2015 World Championships – Glasgow, GBR – WAG General Report

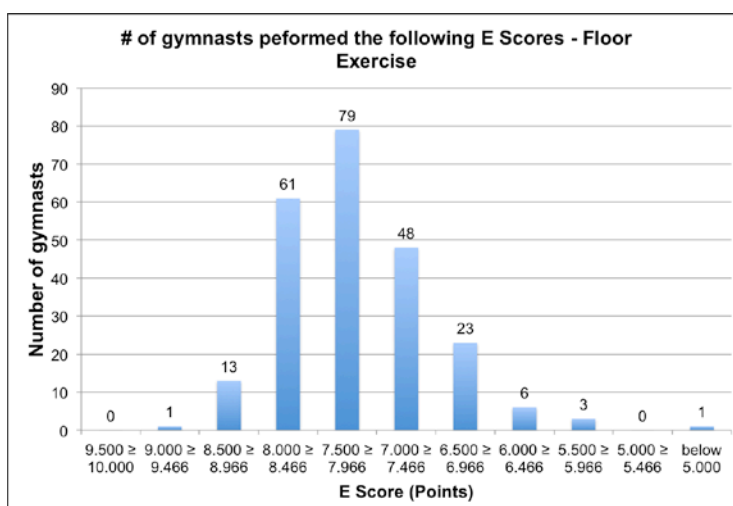
### D-Score

| D score | # of gymn | D score | # of gymn | D score | # of gymn |
|---------|-----------|---------|-----------|---------|-----------|
| 6.90    | 1         | 5.40    | 18        | 4.20    | 4         |
| 6.60    | 1         | 5.30    | 23        | 4.00    | 1         |
| 6.40    | 1         | 5.20    | 13        | 3.80    | 4         |
| 6.30    | 2         | 5.10    | 22        | 3.70    | 1         |
| 6.20    | 2         | 5.00    | 16        | 3.50    | 1         |
| 6.10    | 1         | 4.90    | 18        | 3.30    | 1         |
| 6.00    | 5         | 4.80    | 8         | 3.10    | 1         |
| 5.90    | 3         | 4.70    | 16        | 3.00    | 1         |
| 5.80    | 5         | 4.60    | 13        | 2.90    | 1         |
| 5.70    | 8         | 4.50    | 9         | 2.70    | 1         |
| 5.60    | 15        | 4.40    | 5         | 2.40    | 1         |
| 5.50    | 11        | 4.30    | 2         |         |           |



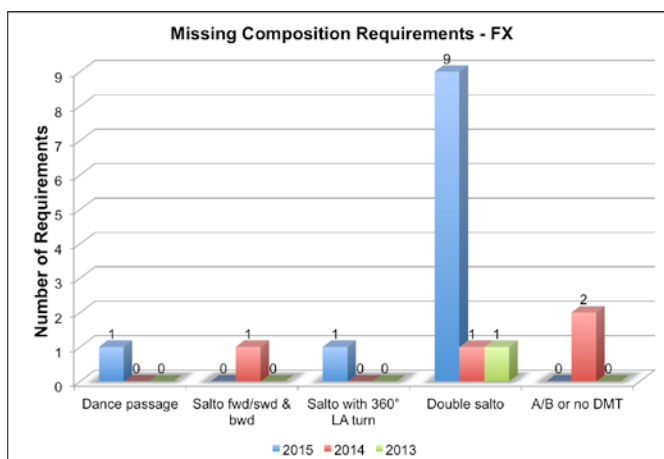
### E-Score

| E score        | # of gymn |
|----------------|-----------|
| 9.500 ≥ 10.000 | 0         |
| 9.000 ≥ 9.466  | 1         |
| 8.500 ≥ 8.966  | 13        |
| 8.000 ≥ 8.466  | 61        |
| 7.500 ≥ 7.966  | 79        |
| 7.000 ≥ 7.466  | 48        |
| 6.500 ≥ 6.966  | 23        |
| 6.000 ≥ 6.466  | 6         |
| 5.500 ≥ 5.966  | 3         |
| 5.000 ≥ 5.466  | 0         |
| below 5.000    | 1         |



### Missing Composition requirements

|    |                            | 2015 | 2014 | 2013 |
|----|----------------------------|------|------|------|
| 1. | Dance passage              | 1    | 0    | 0    |
| 2. | Salto fwd/swd & bwd        | 0    | 1    | 0    |
| 3. | Salto with 360° LA turn    | 1    | 0    | 0    |
| 4. | Double salto               | 9    | 1    | 1    |
| 5. | A/B or no DMT <sup>5</sup> | 0    | 2    | 0    |



<sup>5</sup> 48 gymnasts performed C- Dismount and 180 performed D-, or more Dismount



## 2015 World Championships – Glasgow, GBR – WAG General Report

### Connection Value

# of connections performed:

– 0.10: 83

|                  |    |
|------------------|----|
| CV               |    |
| D +A /B Direct   | 32 |
| C+C Direct       | 23 |
| C+D (indirect)   | 8  |
| A+A+D (indirect) | 6  |
| E+A jump (0.10)  | 8  |
| D+B turn (0.10)  | 6  |

– 0.20: 26

|                |    |
|----------------|----|
| CV-Acro        |    |
| C + E indirect | 7  |
| D+D indirect   | 1  |
| A+A+E indirect | 2  |
| A+E direct     | 11 |
| C+D direct     | 5  |

- Total # of **falls**: 35
- Total # of gymnasts with more than 1 fall: 1

**Line deductions:**      **0.1**      **0.3**  
C-I                              43      20

**Overtime:** -CI – 1

Intervention of the Reference score:

C-I – 2: raised 1 time, lowered 1 time

C-IV – 3: raised 1 time, lowered 2 times

C-II – 2: lowered 2 times

C-III – 1: the score was raised

### Inquiries:

C-I – 0

### New elements performed: 2

|               |     |                              |       |
|---------------|-----|------------------------------|-------|
| Simone Biles  | USA | Stag Jump with ½ turn (180°) | 1.102 |
| Brenna Dowell | USA | Double Salto Forward Piked   | 4.601 |

**# of Long acro Lines in different directions:** None

### Notes:

#### • Interesting elements or connections:

There were two unusual 0.2 direct CV's:

- Salto forward with full twist directly connected to salto forward with double twist
- Salto backward with 1½ twist directly connected to salto forward with double twist
- 2 gymnasts performed salto backward with 3½ twist rebounding into a salto forward (tucked/piked)
- 3 gymnasts performed salto backward with 1½ twist step out into a 3/1 twist and rebounding into a salto forward
- 92 gymnasts i.e 39% achieved forward elements by performing a salto take off 1 foot (free cartwheel, free walkover or side salto).



## 2015 World Championships – Glasgow, GBR – WAG General Report

### • Dance elements

- 37 gymnasts used a change leg action 3 or more times (3 gymnasts used it 4 x)
- 4 gymnasts with flexible backs used a leap and or jump with a ring position more than 3 times (1 of these used it 4x)
- 8 gymnasts who are good in pirouettes, used 3 or 4 pirouettes in their routine, in particular the Netherlands who are excellent at these skills, for example one gymnast gained 1.4 of her D score from her ability to perform pirouettes.

### • Music:

- Brenna Dowell (USA) did not start exercise with her music because she did not hear the “bip” prior to the start of her music. However, as she saw the time ticking away on the board in front of her she made a quick decision to perform her routine anyway, rather than incur a possible time penalty.

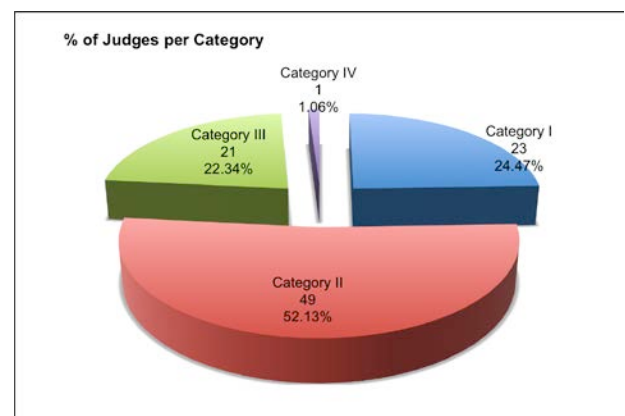
## 7. JUDGING ACTIVITIES

- **Numbers and Nations - 94 judges** (including 8 D-Panel Judges and 8 Reference Judges) represented **67** countries
  - 14 countries with 2 judges: (including 1E, the Difficulty or Reference Judge) ARG, AUT, CHN, CZE, ESP, FRA, GBR, IRL, NOR, POL, POR, ROU, SLO, SUI
  - 13 countries with 2 E judges: AUS, BEL, BRA, CAN, GER, GRE, HUN, ITA, JPN, KOR, MEX, RUS, USA
  - 38 countries with 1 judge: ALG, AZE, BLR, BUL, CHI, COL, CUB, CYP, DEN, DOM, ECU, EGY, FIN, GEO, IND, ISL, ISR, KAZ, LTU, MAR, MAS, MLT, NED, NZL, PAN, PER, PUR, RSA, SIN, SVK, SWE, TPE, TUR, UKR, URU, UZB, VEN, VIE
  - 0 country only with D position
  - 2 countries only with R position, namely CRO, LAT

Among Reference Judges: 3 judges were Category I and 5 judges Category II.

### Categories of the 94 judges

- Category I – 23 judges (including the 4 D1, 4 D2 Judges & 3 Reference Judges)
- Category II – 49 judges (including the 5 Reference Judges)
- Category III – 21 judges
- Category IV – 1 judge





## 2015 World Championships – Glasgow, GBR – WAG General Report

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- **Assessment of the Judging**

This evaluation led to the following outcomes:

- Based on the JE of CI (individual Judges' scores were compared with the Control E-Scores during competitions) a verbal warning was issued to one judge, and she has been removed from the draw for the next phases of the competition.
- Shortly after Competition - I, the WTC carried-out a video evaluation of the selected exercises (according to the JEP rules) as well as all routines where a country had a judge in the Panel at the respective apparatus and the routines where the R-judges' score changed the Final score. All the exercises (100%) from C-IV, C-II and C-III were evaluated by the WTC.
- Some judges showed "Small or medium" bias for a gymnast from their own country.

Generally speaking the Judges were very consistent in the evaluation of the exercise and as a result, the ranking of the gymnasts was correct.

The position of the judges helped a lot to have a common view of the mistakes, and therefore the deductions were closer to each other and it led to good results in the JE.




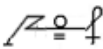

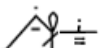






Unfortunately it was not possible at this time to avoid "Ties" on UB.

Respectfully submitted,


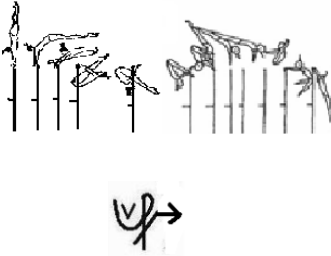

Nellie KIM,  
*FIG/WTC President*

With the statistical assistance of  
Donatella SACCHI and Naomi VALENZO,  
*FIG/WTC Vice Presidents*

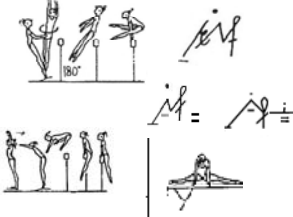

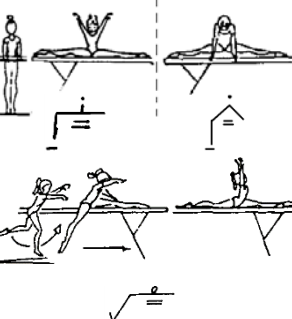
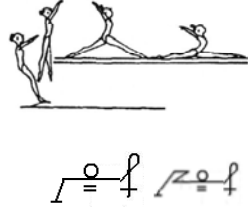
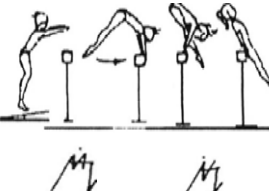
## WORLD CHAMPIONSHIPS 2015 – NEW ELEMENTS

| Apparatus             | Gymnast                       | Nation     | Element Description   | Element No.  | Element Value | Element Symbol   |
|-----------------------|-------------------------------|------------|---|--|---------------|--|
| <b>Uneven Bars</b>    | Kellie Simm<br>Sophie Scheder | GBR<br>GER | Clear pike circle backward with counter reverse hecht over HB to hang   | 4.609<br>   | F             | <br>No name |
| <b>Balance Beam</b>   | Marisa Dick                   | TTO        | Mount: Change leg leap to free cross split sit - diagonal approach to beam.   | 1.305<br>   | C             |             |
|                       | Pauline Schaefer              | GER        | Mount: Standing with back to beam- Jump backward to side split on beam with hand support.   | 1.204<br>   | B             |             |
|                       | Kitti Honti                   | HUN        | Gainer Flic - Flac with ¼ twist (90°) to Handstand (2 sec.) - lower to optional end position<br>If performed with additional ½ turn in handstand (no 2 sec. hold required). | 5.307<br>   | C             |             |
| <b>Floor exercise</b> | Simone Biles                  | USA        | Stag Jump with ½ turn (180°)  | 1.102<br> | A             |            |
|                       | Brenna Dowell                 | USA        | Double Salto Forward Piked  | 4.601<br> | F             |           |

# 4.000 — STALDER CIRCLES

| A            | B            | C  | D            | E  | F/G   |
|--------------|--------------|--|--------------|--|---|
| <b>4.109</b> | <b>4.209</b> | <b>4.309</b><br><i>Clear pike circle bwd on LB with counter flight to hang on HB</i><br> | <b>4.409</b> | <b>4.509</b><br><i>Clear pike Circle bwd with counter straddle (open hip before flight) – reverse Hecht over HB to hang</i><br> | <b>4.609</b><br><i>Clear pike Circle bwd with counter pike – reverse Hecht over HB to hang</i><br> |
| <b>4.110</b> | <b>4.210</b> | <b>4.310</b>   | <b>4.410</b> | <b>4.510</b>   | <b>4.610</b>  |

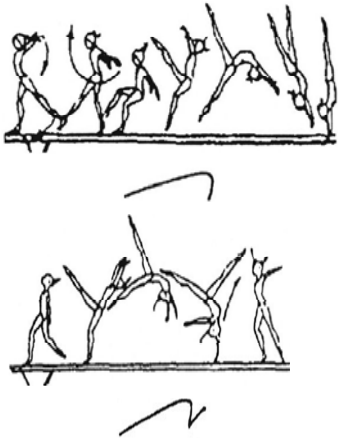
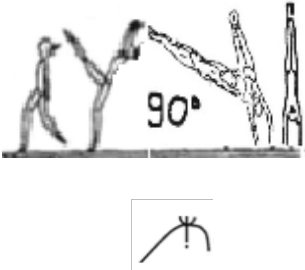
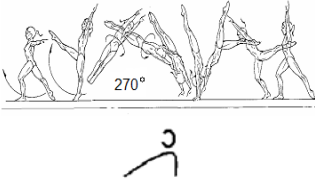
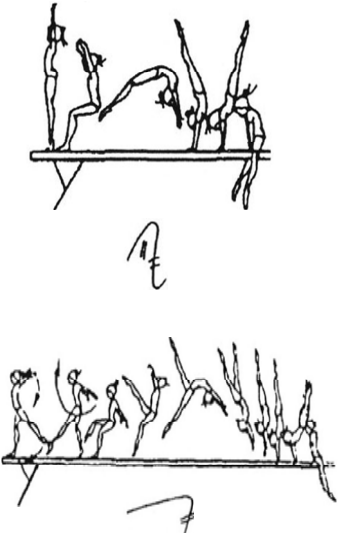
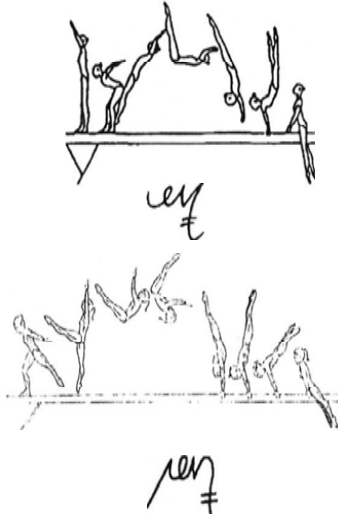
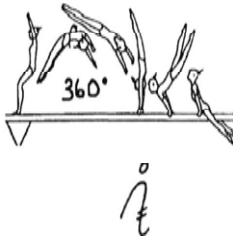
# 1.000 — MOUNTS

| A  | B  | C   | D            | E            | F/G          |
|--|--|---|--------------|--------------|--------------|
| <b>1.104</b>   | <b>1.204</b><br><i>Jump with ½ turn (180°) to clear straddle support, or jump bwd through straddle position over the beam to front support or side split – 90° approach to beam</i><br> | <b>1.304</b><br><i>Straddle pike jump bwd over beam from round-off into immediate hip circle bwd – 90° approach to beam</i><br>                                       | <b>1.404</b> | <b>1.504</b> | <b>1.604</b> |
| <b>1.105 (D)</b><br><i>Jump (with hand support) to side split sit or straddle position - take-off two feet or Leap to cross split sit – diagonal approach to beam (with hand support)</i><br> | <b>1.205</b>   | <b>1.305 (D)</b><br><i>Free jump to cross split sit, also free jump with legs change to cross split sit – take-off from both legs – diagonal approach to beam</i><br> | <b>1.405</b> | <b>1.505</b> | <b>1.605</b> |
| <b>1.106</b><br><i>From side stand - squat or stoop through to rear support</i><br>  | <b>1.206</b>   | <b>1.306</b>  | <b>1.406</b> | <b>1.506</b> | <b>1.606</b> |


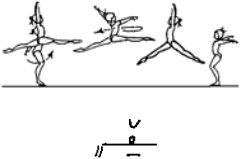
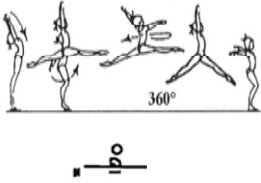
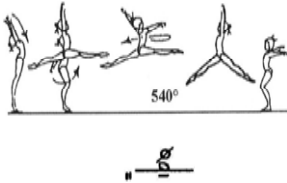
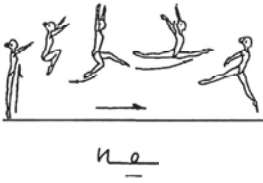
(D) = To be counted as Dance element







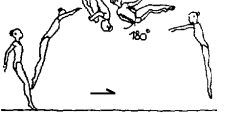









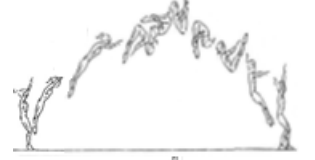

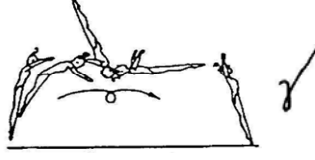

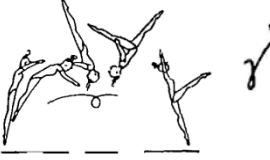

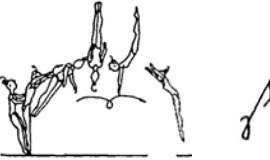

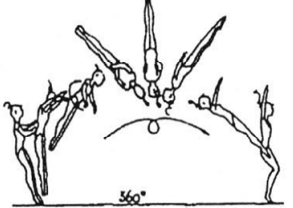

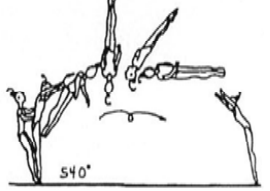

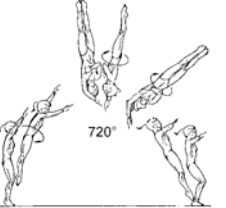

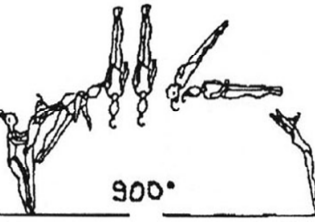

## 5.000 — ACROBATIC FLIGHT

| A            | B   | C   | D   | E            | F/G          |
|--------------|---|---|---|--------------|--------------|
| <b>5.107</b> | <b>5.207</b><br><i>Gainer flic-flac also with support on one arm</i><br>   | <b>5.307</b><br><i>Gainer flic-flac with ¼ twist (90°) to hstd (2 sec.) - lower to optional end position</i><br>                                    | <b>5.407</b><br><i>Gainer flic-flac with min. ¾ twist (270°) before hand support</i><br>       | <b>5.507</b> | <b>5.607</b> |
| <b>5.108</b> | <b>5.208</b><br><i>Flic-flac or Gainer flic-flac – with high flight phase, and swing down to cross straddle sit</i><br> | <b>5.308</b><br><i>Flic-flac or Gainer flic-flac – with piking and stretching of hips in flight phase and swing down to cross straddle sit</i><br> | <b>5.408</b><br><i>Flic-flac with 1/1 twist (360°) – swing down to cross straddle sit</i><br> | <b>5.508</b> | <b>5.608</b> |

# 1.000 – GYMNASTIC LEAPS, JUMPS AND HOPS

| A  | B   | C  | D  | E                   | F/G                 |
|--|---|--|--|---------------------|---------------------|
| <p><b>1.102</b><br/>Split jump (leg separation 180°), or Stag jump, also with ½ turn (180°)</p>       | <p><b>1.202</b><br/>Split Jump with ½ turn (180°)</p>  | <p><b>1.302</b><br/>Split Jump with 1/1 turn (360°)</p>  | <p><b>1.402</b><br/>Split Jump with 1½ turn (540°)</p>  | <p><b>1.502</b></p> | <p><b>1.602</b></p> |
| <p><b>1.103</b><br/>Tuck jump with separation of legs to cross split (180°) during flight phase</p>  | <p><b>1.203</b></p>   | <p><b>1.303</b></p>  | <p><b>1.403</b></p>  | <p><b>1.503</b></p> | <p><b>1.603</b></p> |

# 4.000 – SALTOS FORWARD & SIDEWARD

| A   | B   | C   | D  | E   | F/G/H   |
|---|---|---|--|---|---|
| <p><b>4.101</b><br/>Salto fwd tucked or piked</p>     | <p><b>4.201</b><br/>Salto fwd tucked with ½ or 1/1 twist (180° or 360°), also<br/>Salto fwd piked with ½ twist (180°)</p>       | <p><b>4.301</b><br/>Salto fwd tucked with 1½ twist (540°)</p>    | <p><b>4.401</b></p>  | <p><b>4.501</b><br/>Double salto fwd tucked</p>                       | <p><b>4.601 – F-</b><br/>Double salto fwd tucked,<br/>with ½ twist (180°)</p>   <p>Double salto fwd piked</p>   |
| <p><b>4.102</b></p>   | <p><b>4.202</b><br/>Salto fwd stretched,<br/>also with ½ twist (180°)</p>       | <p><b>4.302</b><br/>Salto fwd stretched with 1/1 or 1½ twist (360° or 540°)</p>     | <p><b>4.402</b><br/>Salto fwd stretched with 2/1 twist (720°)</p>   | <p><b>4.502</b><br/>Salto fwd stretched with 2½ twist (900°)</p>   | <p><b>4.602</b></p>   |

|              |    | A - .100 | B - .200 | C - .300 | D - .400 | E - .500 | F - .600 | G - .700 |
|--------------|----|----------|----------|----------|----------|----------|----------|----------|
| 1.<br>↑      | 01 | L L      |          |          |          |          |          |          |
|              | 02 | U U      | EL       |          |          |          |          |          |
|              | 03 | K K      | LE E     |          |          |          |          |          |
|              | 04 | J J      | J EL     | EL       |          |          |          |          |
|              | 05 | EL       |          |          |          |          |          |          |
|              | 06 | W        | AW A     | W        |          |          |          |          |
|              | 07 |          | ZOH      | JO J     | J        |          |          |          |
|              | 08 |          | XW       | W        | W        |          |          |          |
|              | 09 |          |          |          | W W      | W W      |          |          |
|              | 10 |          | ZJ J     | J J J    | J        |          |          |          |
|              | 11 |          |          |          | SEL SEL  |          |          |          |
| 2.<br>!      | 01 | J        | J J J    | J        | J        |          |          |          |
|              | 02 |          | J J      | W W      |          |          |          |          |
|              | 03 |          |          | EL       | W        | W        |          |          |
|              | 04 | O        |          |          | EL EL    |          |          |          |
|              | 05 | O a.     |          | W W      | W        | W        |          |          |
|              | 06 |          |          | W        | W        | W W      | W        |          |
|              | 07 |          |          | W W      |          |          |          |          |
| 3.<br>U<br>U | 01 |          | U U U    | U        | U U U    |          |          |          |
|              | 02 |          |          |          | U U      | U        |          |          |
|              | 03 |          |          |          | U U      | U U U    |          |          |
|              | 04 |          |          | U        | U        | U        | U        |          |
|              | 05 |          |          |          | U U U    |          |          | U U      |
|              | 06 |          | U U      | U        |          | U U      |          |          |
|              | 07 |          |          | U        | U        |          |          |          |
|              | 08 |          |          | U U      | U U U    | U U U    |          | U        |
|              | 09 |          |          | U U      | U        |          |          |          |
|              | 10 |          |          | U U      | U        | U U      |          |          |

|         |    | A - .100 | B - .200 | C - .300 | D - .400 | E - .500 | F - .600 | G - .700 |
|---------|----|----------|----------|----------|----------|----------|----------|----------|
| 4.<br>X | 01 | ⊗        | W        | X! X!    | X!       |          |          |          |
|         | 02 |          | ⊗.       | XV       | ⊗        | X        | X        |          |
|         | 03 | ⊗        |          |          | W W      | W W      |          |          |
|         | 04 | ⊗        |          | X! X!    | X!       | X!       |          |          |
|         | 05 |          |          | XW       | X!       | X!       |          |          |
|         | 06 | ⊗        |          |          | W W      | W!       |          |          |
|         | 07 | ⊗        |          |          | W W      | W!       |          |          |
|         | 08 |          |          | W        | W        | W W      |          |          |
|         | 09 |          |          | W        |          | W        | W        |          |
| 5.<br>V | 01 | ⊗        |          | ⊗ ⊗ ⊗    |          | W W      |          |          |
|         | 02 |          | W        | W        | W W W    |          |          |          |
|         | 03 |          |          | W        | W        |          |          |          |
|         | 04 | W        |          | W        | W W      |          |          |          |
|         | 05 | ⊗        |          | W W      | W!       |          |          |          |
|         | 06 | ⊗        |          | W W      | W!       |          |          |          |
|         | 07 |          | W        | W        |          |          | W        |          |
|         | 08 | ⊗        |          | W W      | W!       | W!       |          |          |
|         | 09 |          |          |          | W W      | W W W    | W        | W        |
| 6.<br>↓ | 01 | W W      | W        | W W W    | W W      |          |          |          |
|         | 02 | W W      |          | W W W X  | W W      | W        |          |          |
|         | 03 |          |          | W W W    | W W W    |          |          |          |
|         | 04 | W        | W W      | W W      | W        | W        |          |          |
|         | 05 |          | W        | W W      | W W      | W W      | W        |          |
|         | 06 |          |          |          | W W      | W W      |          | W W      |
|         | 07 |          |          |          | W W W    | W W W    |          | W W      |
|         | 08 | W W W    | W W W    | W W W    | W W W    | W W W    |          |          |
|         | 09 |          | W W W    | W W W    | W W W    | W W W    | W W      |          |
|         | 10 |          | W        | W W      |          |          |          |          |

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|       | A-100 | B-200 | C-300 | D-400 | E-500 | F.600 | G.700 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |
| 08    |       |       |       |       |       |       |       |
| 09    |       |       |       |       |       |       |       |
| 10    |       |       |       |       |       |       |       |
| 11    |       |       |       |       |       |       |       |
| 12    |       |       |       |       |       |       |       |
| 13    |       |       |       |       |       |       |       |
| 14    |       |       |       |       |       |       |       |
| 15    |       |       |       |       |       |       |       |
| 16    |       |       |       |       |       |       |       |
| 17    |       |       |       |       |       |       |       |
| 18    |       |       |       |       |       |       |       |
| 19    |       |       |       |       |       |       |       |

|       | A-100 | B-200 | C-300 | D-400 | E-500 | F.600 | G.700 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 2. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |
| 08    |       |       |       |       |       |       |       |
| 09    |       |       |       |       |       |       |       |
| 10    |       |       |       |       |       |       |       |
| 11    |       |       |       |       |       |       |       |
| 12    |       |       |       |       |       |       |       |
| 3. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |
| 08    |       |       |       |       |       |       |       |
| 4. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |
| 08    |       |       |       |       |       |       |       |
| 09    |       |       |       |       |       |       |       |
| 10    |       |       |       |       |       |       |       |
| 11    |       |       |       |       |       |       |       |

|       | A-100 | B-200 | C-300 | D-400 | E-500 | F.600 | G.700 |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 5. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |
| 08    |       |       |       |       |       |       |       |
| 09    |       |       |       |       |       |       |       |
| 10    |       |       |       |       |       |       |       |
| 11    |       |       |       |       |       |       |       |
| 12    |       |       |       |       |       |       |       |
| 13    |       |       |       |       |       |       |       |
| 14    |       |       |       |       |       |       |       |
| 6. 01 |       |       |       |       |       |       |       |
| 02    |       |       |       |       |       |       |       |
| 03    |       |       |       |       |       |       |       |
| 04    |       |       |       |       |       |       |       |
| 05    |       |       |       |       |       |       |       |
| 06    |       |       |       |       |       |       |       |
| 07    |       |       |       |       |       |       |       |

|         |    | A - .100 | B - .200 | C - .300 | D - .400 | E - .500 |
|---------|----|----------|----------|----------|----------|----------|
| 1.<br>— | 01 |          |          |          |          |          |
|         | 02 |          |          |          |          |          |
|         | 03 |          |          |          |          |          |
|         | 04 |          |          |          |          |          |
|         | 05 |          |          |          |          |          |
|         | 06 |          |          |          |          |          |
|         | 07 |          |          |          |          |          |
|         | 08 |          |          |          |          |          |
|         | 09 |          |          |          |          |          |
|         | 10 |          |          |          |          |          |
|         | 11 |          |          |          |          |          |
|         | 12 |          |          |          |          |          |
|         | 13 |          |          |          |          |          |
|         | 14 |          |          |          |          |          |
| 2.<br>○ | 01 |          |          |          |          | ④        |
|         | 02 |          |          |          |          |          |
|         | 03 |          |          |          |          |          |
|         | 04 |          |          |          |          |          |
|         | 05 |          |          |          |          |          |
|         | 06 |          |          |          |          |          |
|         | 07 |          |          |          |          |          |
|         | 08 |          |          |          |          |          |

|         |    | A - .100 | B - .200 | C - .300 | D - .400 | E - .500 | F - .600 | G - .700 | H - .800 | I - .900 |
|---------|----|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 3.<br>= | 01 |          |          |          |          |          |          |          |          |          |
|         | 02 |          |          |          |          |          |          |          |          |          |
|         | 03 |          |          |          |          |          |          |          |          |          |
|         | 04 |          |          |          |          |          |          |          |          |          |
|         | 05 |          |          |          |          |          |          |          |          |          |
|         | 06 |          |          |          |          |          |          |          |          |          |
|         | 07 |          |          |          |          |          |          |          |          |          |
| 4.<br>∩ | 01 |          |          |          |          |          |          |          |          |          |
|         | 02 |          |          |          |          |          |          |          |          |          |
|         | 03 |          |          |          |          |          |          |          |          |          |
|         | 04 |          |          |          |          |          |          |          |          |          |
|         | 05 |          |          |          |          |          |          |          |          |          |
| 5.<br>∩ | 01 |          |          |          |          |          |          |          |          |          |
|         | 02 |          |          |          |          |          |          |          |          |          |
|         | 03 |          |          |          |          |          |          |          |          |          |
|         | 04 |          |          |          |          |          |          |          |          |          |
|         | 05 |          |          |          |          |          |          |          |          |          |
|         | 06 |          |          |          |          |          |          |          |          |          |