

Solid State Energy Conversion Alliance Core Technology Program



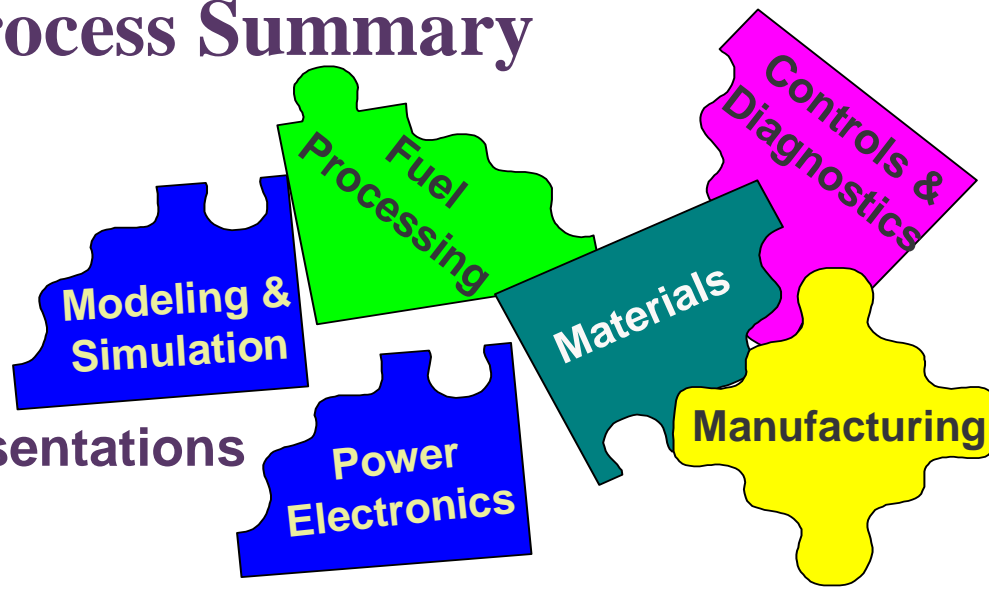
*September 30 – October 1, 2003 Workshop
Peer Review Rating Results Summary*

Donald Collins





Review Process Summary



- **Core Technology Project Presentations**
 - Project Objectives & Results
 - Non-proprietary Information
 - Industry, National Lab & University Participation
- **Verbal & Written Constructive Comments**
 - Written Comments on Peer Review Forms
 - Industry Verbal Feedback at Workshop
- **Core Participant Review & Reply to Comments**
 - Reply to Comment Issues
- **DOE NETL Redirect Projects as Needed**





Peer Review Questions

Science & Technology Issues

1. How relevant are the technical issues being addressed in this project?

Objectives & Approach

2.a. If the objectives are fully met, how significant will be the results of this project?

2.b. How effective is the approach in addressing the technical issues of this project?

Results

3.a. How well do the results/progress relate to the project objectives?

3.b. How important are the results of this work in the advancement of the Core Technology area?

Applicability

4. How beneficial are the results of this work in the development efforts of the Industry Teams?





Peer Review Rating Scale & Definitions

 Not at All  Marginal  Significant  Superior  Outstanding

Not at all – is viewed to be inferior in quality and amount, possibly duplication of existing work

Marginal – provides/likely to provide little useful knowledge or technology advancement

Significant – has/will have an influential impact on the core science and technology

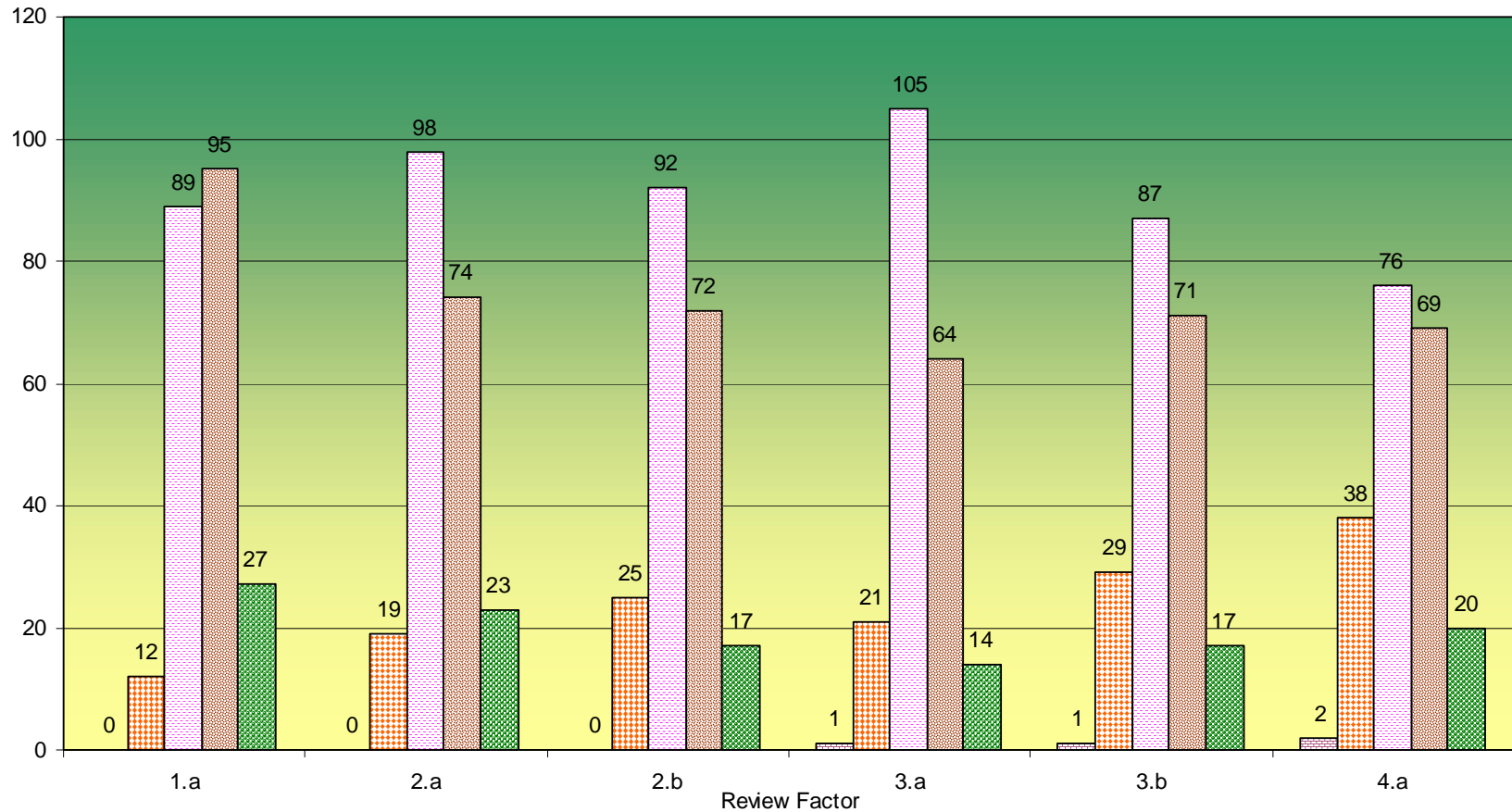
Superior – is considerable in quantity, quality of advancement of core science and technology

Outstanding – marked by eminence and distinction in advancing the state-of-the-art and/or knowledge in the fields of science and engineering



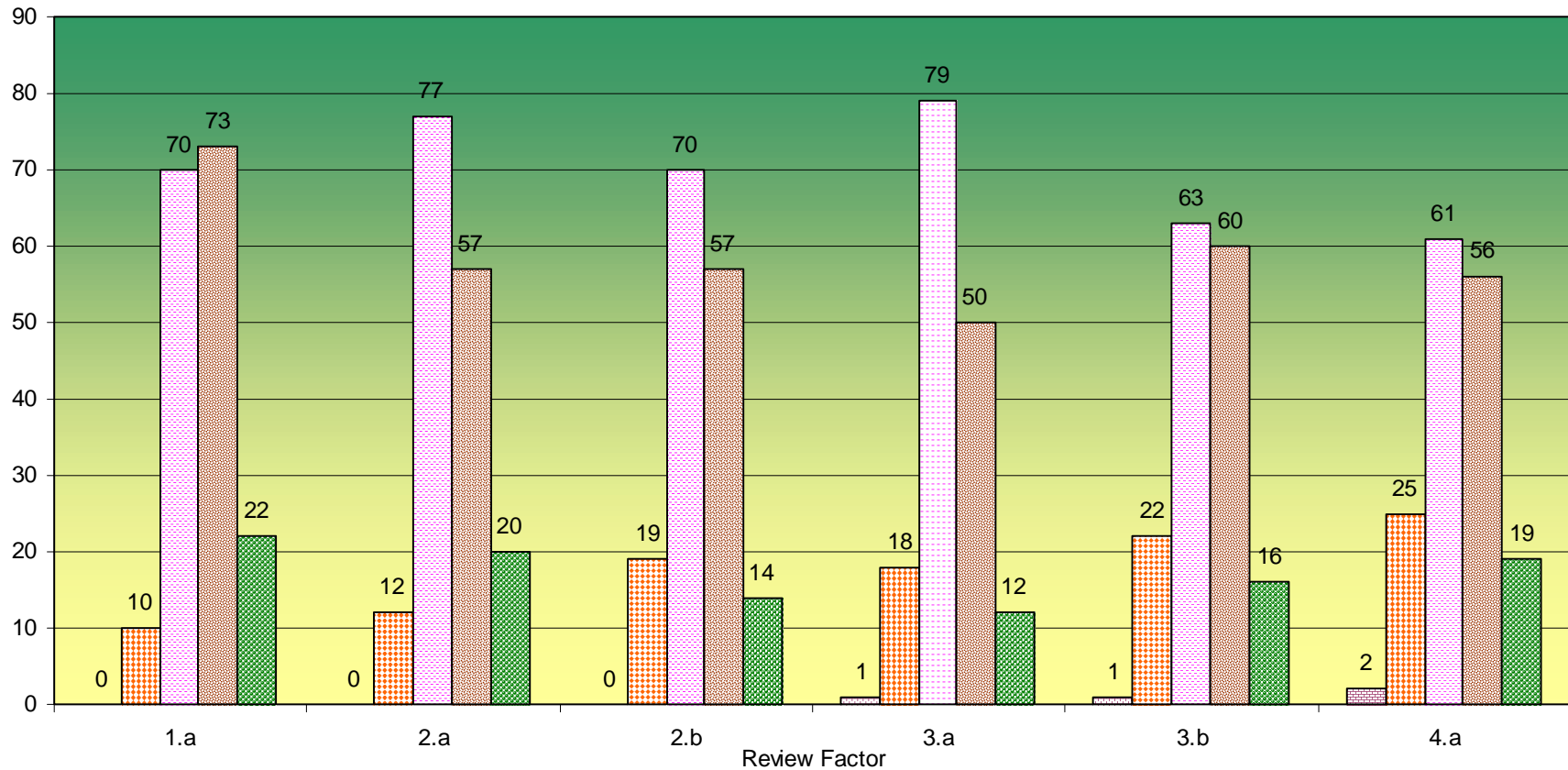


Overall Program Ratings



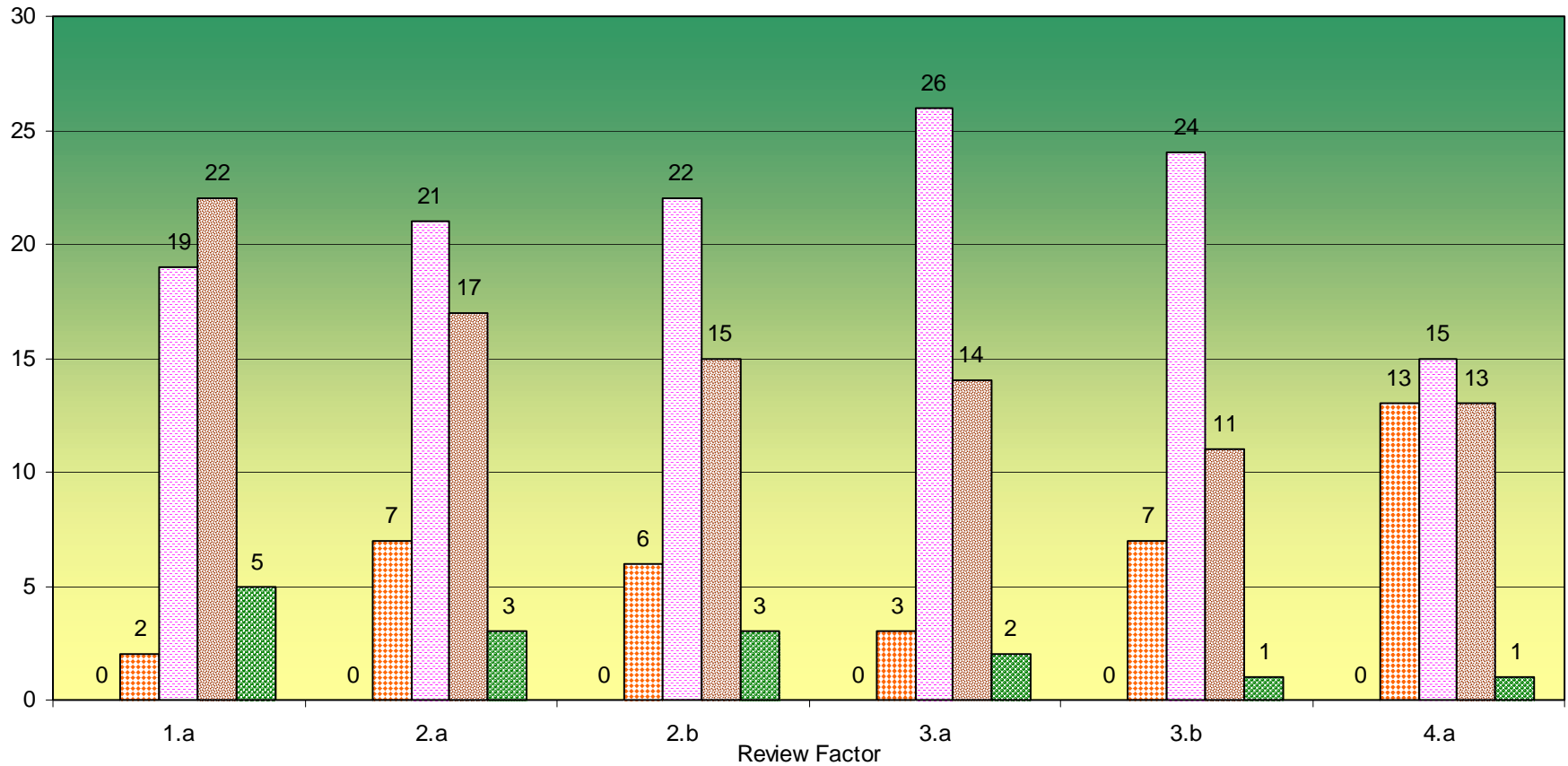


Overall Program SECA Industry Team Ratings





Overall Program Non-SECA Industry Team Ratings



Not at All Marginal Significant Superior Outstanding





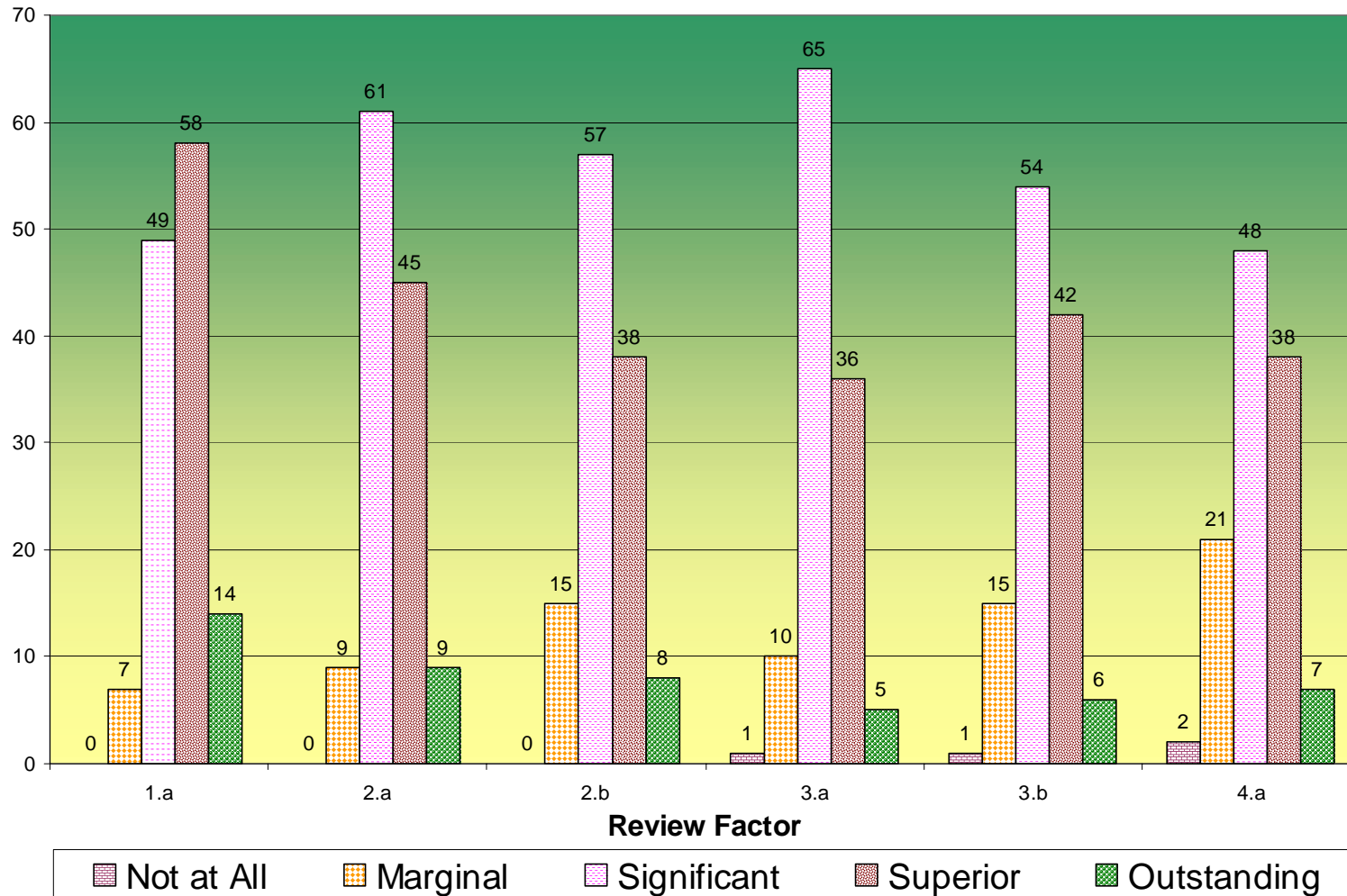
Overall Program Rating Data

Reviewer Industry Team	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	8	0	10	70	73	22
2.a	17	0	12	77	57	20
2.b	23	0	19	70	57	14
3.a	23	1	18	79	50	12
3.b	21	1	22	63	60	16
4.a	19	2	25	61	56	19
Sub-Total	111	4	106	420	353	103
National Laboratory	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	1	0	2	19	22	5
2.a	0	0	7	21	17	3
2.b	2	0	6	22	15	3
3.a	3	0	3	26	14	2
3.b	5	0	7	24	11	1
4.a	6	0	13	15	13	1
Sub-Total	17	0	38	127	92	15
Factor Totals	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	9	0	12	89	95	27
2.a	17	0	19	98	74	23
2.b	25	0	25	92	72	17
3.a	26	1	21	105	64	14
3.b	26	1	29	87	71	17
4.a	25	2	38	76	69	20
Rating Totals	128	4	144	547	445	118





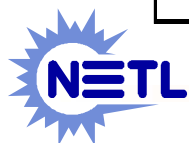
Materials & Manufacturing





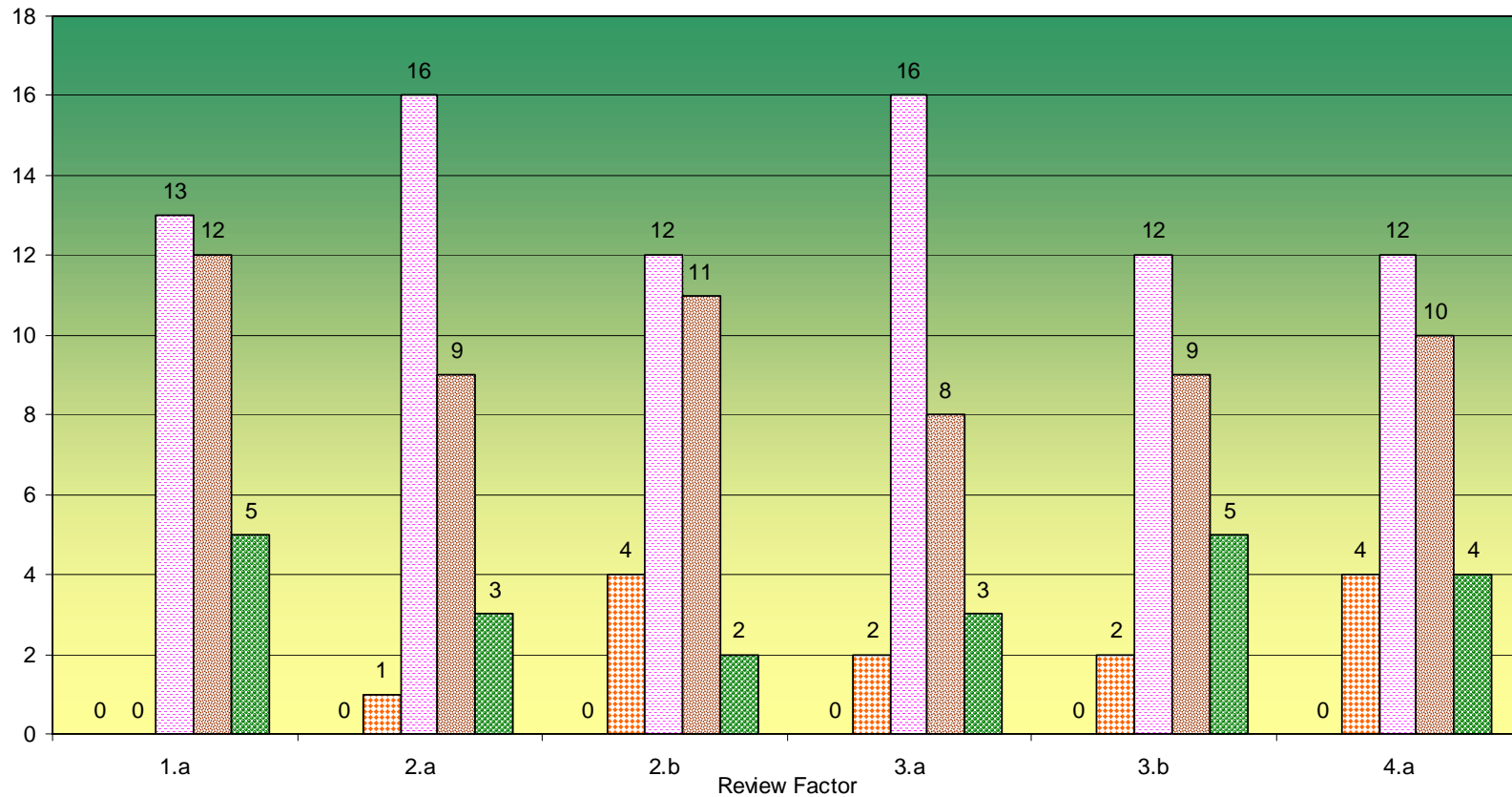
Materials & Manufacturing Rating Data

Reviewer Industry Team	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	7	0	6	36	44	11
2.a	11	0	6	47	33	7
2.b	16	0	10	44	28	6
3.a	15	1	7	50	27	4
3.b	13	1	11	39	35	5
4.a	14	2	13	38	31	6
Sub-Total	76	4	53	254	198	39
National Laboratory	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	1	0	1	13	14	3
2.a	0	0	3	14	12	2
2.b	1	0	5	13	10	2
3.a	3	0	3	15	9	1
3.b	4	0	4	15	7	1
4.a	5	0	8	10	7	1
Sub-Total	14	0	24	80	59	10
Factor Totals	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	8	0	7	49	58	14
2.a	11	0	9	61	45	9
2.b	17	0	15	57	38	8
3.a	18	1	10	65	36	5
3.b	17	1	15	54	42	6
4.a	19	2	21	48	38	7
Rating Totals	90	4	77	334	257	49





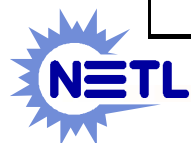
Fuel Processing





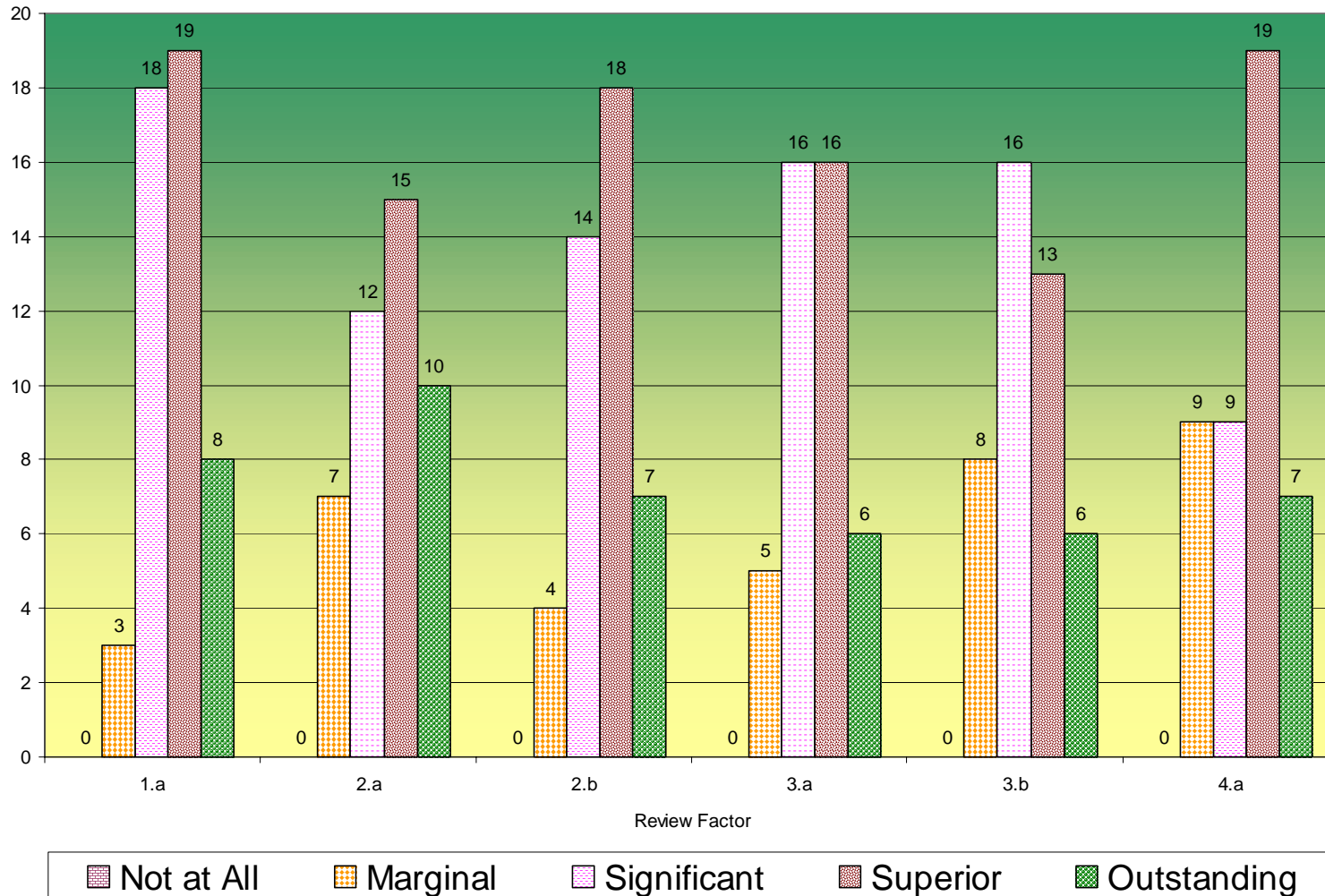
Fuel Processing Rating Data

Reviewer Industry Team	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	0	0	0	10	8	5
2.a	1	0	0	12	7	3
2.b	1	0	3	9	8	2
3.a	1	0	2	11	6	3
3.b	1	0	1	10	6	5
4.a	0	0	1	10	8	4
Sub-Total	4	0	7	62	43	22
National Laboratory	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	0	0	0	3	4	0
2.a	0	0	1	4	2	0
2.b	0	0	1	3	3	0
3.a	0	0	0	5	2	0
3.b	1	0	1	2	3	0
4.a	0	0	3	2	2	0
Sub-Total	1	0	6	19	16	0
Factor Totals	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	0	0	0	13	12	5
2.a	1	0	1	16	9	3
2.b	1	0	4	12	11	2
3.a	1	0	2	16	8	3
3.b	2	0	2	12	9	5
4.a	0	0	4	12	10	4
Rating Totals	5	0	13	81	59	22





Modeling & Simulation





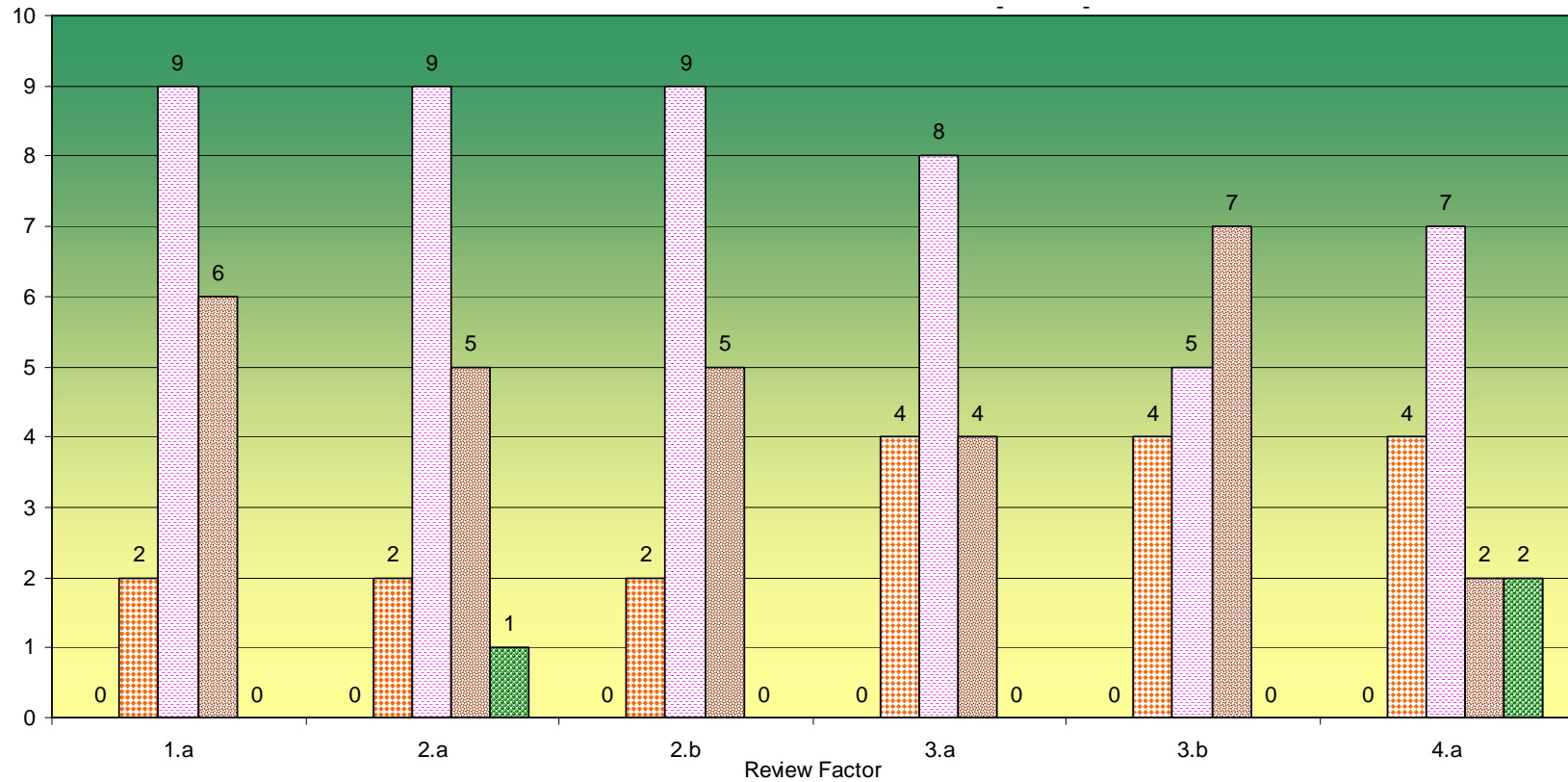
Modeling & Simulation Rating Data

Reviewer	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
Industry Team						
1.a	1	0	2	15	15	6
2.a	5	0	4	9	12	9
2.b	5	0	4	8	16	6
3.a	6	0	5	10	13	5
3.b	6	0	6	9	12	6
4.a	4	0	7	6	15	7
Sub-Total	27	0	28	57	83	39
National Laboratory						
1.a	0	0	1	3	4	2
2.a	0	0	3	3	3	1
2.b	1	0	0	6	2	1
3.a	0	0	0	6	3	1
3.b	0	0	2	7	1	0
4.a	1	0	2	3	4	0
Sub-Total	2	0	8	28	17	5
Factor Totals						
1.a	1	0	3	18	19	8
2.a	5	0	7	12	15	10
2.b	6	0	4	14	18	7
3.a	6	0	5	16	16	6
3.b	6	0	8	16	13	6
4.a	5	0	9	9	19	7
Rating Totals	29	0	36	85	100	44





Power Electronics, Controls & Diagnostics





Power Electronics, Controls & Diagnostics Rating Data

Reviewer	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
Industry Team						
1.a	0	0	2	9	6	0
2.a	0	0	2	9	5	1
2.b	1	0	2	9	5	0
3.a	1	0	4	8	4	0
3.b	1	0	4	5	7	0
4.a	1	0	4	7	2	2
Sub-Total	4	0	18	47	29	3
National Laboratory	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	0	0	0	0	0	0
2.a	0	0	0	0	0	0
2.b	0	0	0	0	0	0
3.a	0	0	0	0	0	0
3.b	0	0	0	0	0	0
4.a	0	0	0	0	0	0
Sub-Total	0	0	0	0	0	0
Factor Totals	No Rating	Not at All	Marginal	Significant	Superior	Outstanding
1.a	0	0	2	9	6	0
2.a	0	0	2	9	5	1
2.b	1	0	2	9	5	0
3.a	1	0	4	8	4	0
3.b	1	0	4	5	7	0
4.a	1	0	4	7	2	2
Rating Totals	4	0	18	47	29	3

